

**Local Government Engineering Department  
People's Republic of Bangladesh**

**The Project for Developing  
Inclusive City Governance  
for City Corporation**

**Final Report**

**Volume 5**

**GCC Edition**

**March 2014**

**JAPAN INTERNATIONAL COOPERATION AGENCY**

**PADECO Co., Ltd.**

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## **List of Abbreviations**

|             |  |
|-------------|--|
| ADB         | Asian Development Bank   |
| ADP         | Annual Development Program   |
| BBS         | Bangladesh Bureau of Statistics  |
| BDT         | Bangladesh Taka  |
| BTTB        | Bangladesh Telegraph and Telephone Board   |
| C/P         | Counterpart  |
| CBO         | Community Based Organization   |
| CC          | City Corporation   |
| CD          | Capacity Development   |
| CPU         | Comprehensive Planning Unit  |
| CSCC        | Civil Society Coordination Committee   |
| DAP         | Detailed Area Plan   |
| DG          | Director General   |
| DMDP        | Dhaka Metropolitan Development Plan  |
| DOE         | Department of Environment  |
| DPHE        | Department of Public Health and Engineering  |
| ECA         | Environment Conservation Act   |
| ECC         | Environmental Clearance Certificate  |
| ECR         | Environmental Conservation Rules   |
| ED          | Engineering Department (of CC)   |
| EIA         | Environmental Impact Assessment  |
| EMP         | Environmental Management Plan  |
| GCC         | Gazipur City Corporation   |
| GOB         | Government of Bangladesh   |
| GOJ         | Government of Japan  |
| HD          | Health Department  |
| ICGP (Loan) | Inclusive City Governance Project (JICA Loan Project)  |
| ICGP (Prep) | The Technical Corporation Project for Development Planning for Inclusive City Governance (Preparatory project of the above mentioned ICGP(Loan)) |
| ICT         | Information Communication Technology   |

|          |  |
|----------|--|
| IDPCC    | Infrastructure Development Plan of City Corporation  |
| IEE      | Initial Environmental Examination  |
| JICA     | Japan International Cooperation Agency   |
| LGD      | Local Government Division  |
| LGED     | Local Government Engineering Department  |
| M/M      | Minutes of Meeting   |
| MOEF     | Ministry of Environment and Forestry   |
| MoLGRD&C | Ministry of Local Government Rural Development & Cooperatives                                    |
| NGO      | Non-government organization  |
| NOC      | No objection Certificate   |
| PAP      | Project Affected Person  |
| PD       | Project Director   |
| PIUCC    | Project Implementation Unit at City Corporation  |
| PS       | Pourashava (a type of municipality in Bangladesh)  |
| RAJUK    | Rajdhani Unnayan Kartripakkha<br>(Capital Development Authority of the Government of Bangladesh) |
| R/D      | Record of Discussion   |
| RHD      | Road and Highway Department  |
| SC       | Steering Committee   |
| SCM      | Stakeholder Committee Meeting (name was changed from Stakeholder Meeting (SM))                   |
| SWM      | Solid Waste Management   |
| TLCC     | Town Level Coordination Committee  |
| TOR      | Terms of Reference   |
| UGIAP    | Urban Governance Improvement Action Program  |
| UGIIP    | Urban Governance and Infrastructure Improvement (Sector) Project                                 |
| UPPR     | Urban Poor Promotion Project   |
| WASA     | Water Supply & Sewerage Authority  |
| WB       | World Bank   |
| WG       | Working Group  |
| WLCC     | Ward Level Coordination Committee  |
| WSS      | Water Supply System  |



## **PART 1**

# **Infrastructure Development Plan of GCC**



## Chapter 1 Introduction

### 1.1 Background of IDPCC

Gazipur was declared as Bangladesh’s 11<sup>th</sup> City Corporation (CC) on 7th January 2013. Tongi and Gazipur were both declared as municipalities in 1974 and 1986, respectively. The Gazipur Municipality, which has an area of 329.53 km<sup>2</sup>, was upgraded to a city corporation in 2013. The Tongi Municipality, having an area of 32.36 km<sup>2</sup>, has been merged with the proposed Gazipur City Corporation, according to a local government proposal.

Typically, a City Corporation (including the previous PS) has several infrastructure project lists from different funding sources such as JICA, ADB, WB, DPP (LGRD) and the CC itself. Meanwhile, other National Government agencies have their own project plans. These lists have never been combined into an “inclusive list”. Thus, coordinated and inclusive public services have been weak within the CC territory as a whole. IDPCC includes an inclusive list of infrastructure that is to be implemented in five (5) years. This is a first initial stage for City Corporation to develop an inclusive style of city governance.

The IDPCC is intended to be a rolling or “living” plan – requirements and infrastructure priorities always change – with completed projects removed from the plan. Therefore, the development plan shall be reviewed every three years, with minor changes made each year. The initial IDPCC includes projects in various sectors including: Transportation, Drainage, Solid Waste Management and so on.

### 1.2 Institutional Structure for IDPCC Management

Elaboration, implementation and revision of IDPCC need appropriate institutional structure inside of the City Corporation. Figure 1-1 shows suggested structure to achieve the expected function.

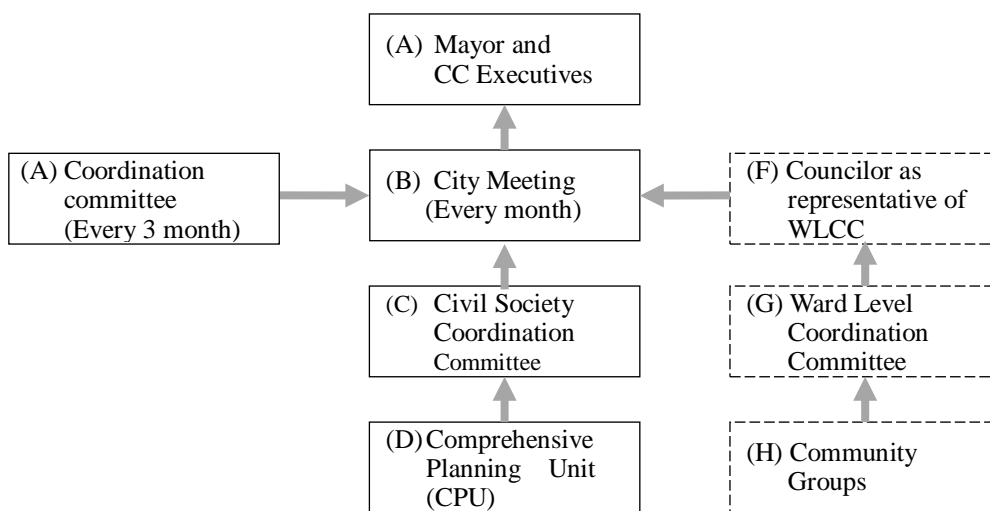


Figure 1-1: Institutional Structure for IDPCC Management

Table 1-1 shows the function of each stakeholder mentioned in Figure 1-1 above.

**Table 1-1: Components of the Institutional Structure**

| <b>Institutional Component</b>                   | <b>Function</b>  |
|--|--|
| A Mayor  | The CC mayor chairs Civil Society Coordination Committee (CSCC) and City Meeting. He/she takes overall responsibility of elaboration, implementation and revision of IDPCC.  |
| B City Meeting                                   | City Meeting is a regular monthly meeting which consists of a mayor, CC's executive officers, councilors and others. This meeting shall endorse the result of CSCC. City Meeting is held every month.  |
| C Civil Society Coordination Committee (CSCC)    | Stakeholder Committee Meeting of ICGP (Prep) consists of representatives from various community organizations, standing committees, national government agencies and relevant officers of CC. For the IDPCC related purpose, this meeting examines draft ideas of IDPCC elaboration, execution and revision prepared by Comprehensive Planning Unit (CPU). ICGP (Prep) has an idea to rename this and keep it as Civil Society Coordination Committee (CSCC). It would be a permanent committee as a part of GCC's planning system.  |
| D Comprehensive Planning Unit (CPU)              | For the IDPCC related purpose, Comprehensive Planning Unit (CPU) is a taskforce to lead elaboration, implementation and revision of IDPCC. CPU drafts the IDPCC and proposes revision of IDPCC to the CSCC. CPU consists of planner, engineer, health doctor, and relevant CC officers.  |
| E City Development Coordination Committee (CDCC) | CDCC consists of member of City Meeting and representative of each relevant national government agency. This is a good occasion to exchange information on IDPCC and relevant projects of the national government agencies. GCC has never held this CDCC meeting so far.   |
| F Councilor as representative of WLCC            | As a chairperson and representatives of Ward Level Coordination Committee (WLCC), the councilor of the ward shall well comprehend the issues of his/her wards and urge necessary arrangement of the CC administration. In general, capacity of councilors is a very important human resource of GCC, their capacity should be developed more so that they can take care of the wards properly and, at the same time, take necessary actions for the entire CC community. As an ICGP activity, GCC has agreed to build two Community Resource Centers (CRC)" in its territory. CDCs at the ward level may facilitate community activities led by the councilor. |
| G Ward Level Coordination Committee (WLCC)       | Ward Level Coordination Committee is organized in every ward and meets regularly to discuss important issues of the ward including infrastructure and public services. The councilor chairs the meeting and coordinates collaboration between CC administration and community groups.  |
| H Community Groups                               | Bigger ward level community groups such as CBO, CDC, Youth Association, Women's Association, etc. work for the common benefit of the community and dispatch representatives to the Ward Level Coordination Committee. Community groups whose activities cover the entire CC may send representatives to CSCC.  |

The actual IDPCC elaboration with ICGP (Prep) has been done through the (D)→(C)→(B)→(A) procedure in Figure 1-1, since (H)→(G)→(F) organizational structure has not been fully established. However, the linkage between community groups and City Corporation is very important, therefore, (H)→(G)→(F) organizational structure should be set up as soon as possible. GCC has a successful example of Community Development Committee, and this experience may be applied to establishing general linkage between various community groups and City Corporation.

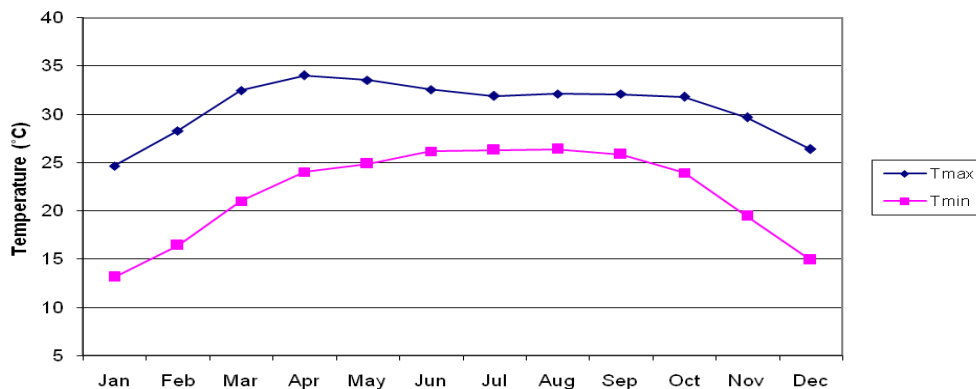
Potential of Zone (previous Pourashava-PS) Level Committee also should be examined by the GCC. Since GCC has been established merging two PSs (Now they are called "zone") and other UP, citizens of each zone had a sense of belonging to their previous PS.

## Chapter 2 Present Condition of GCC

### 2.1 Present Natural Condition of GCC

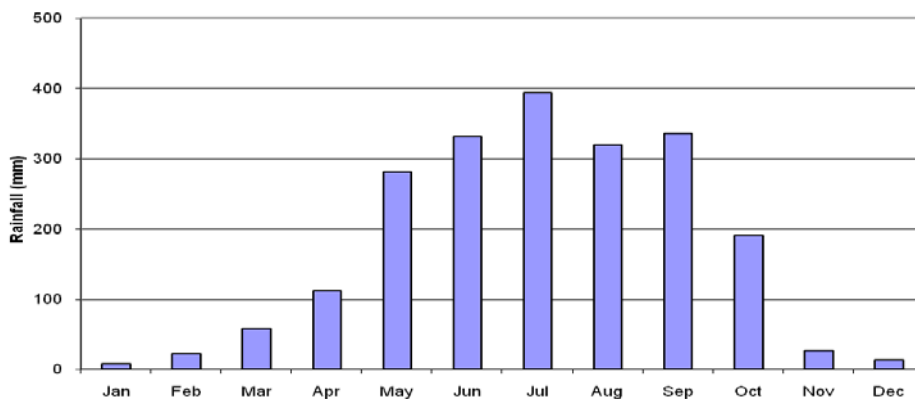
#### 2.1.1 Climate and Weather

The maximum mean temperature observed in GCC is between 25°C–34°C between May–August, with the minimum temperature of between 13°C–25°C in January (see Figure 2-1). Monthly precipitation records clearly distinctly show a dry and rainy season (see Figure 2-2).



Source: GCC

Figure 2-1: Average Minimum and Maximum Temperature in GCC



Source: GCC

Figure 2-2: Average Rainfall at GCC

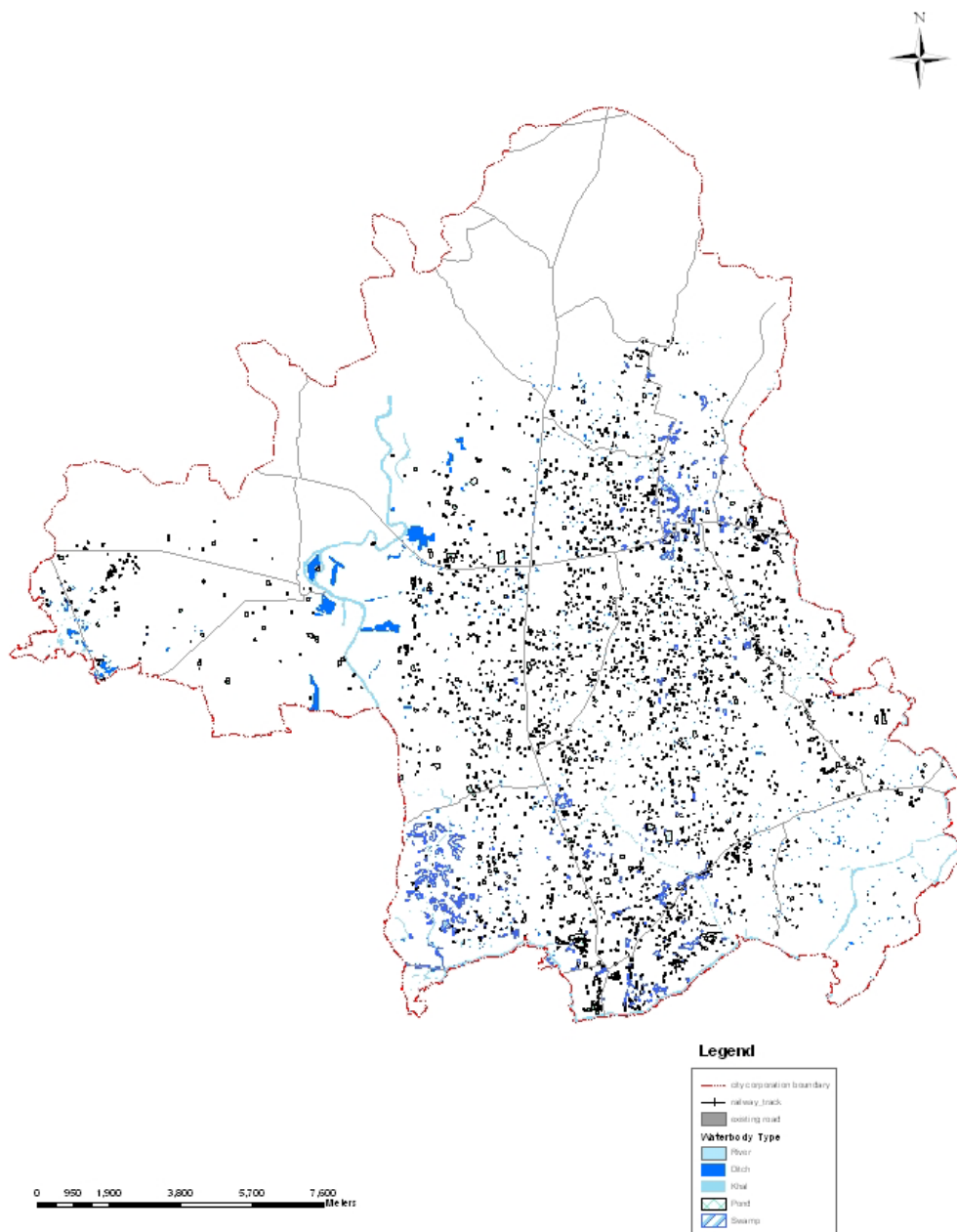
#### 2.1.2 Hydrology

GCC is now covered with several bodies of water. Table 2-1 details the existing condition of GCC bodies of water, while Figure 2-3 presents the distribution of bodies of water in the CC area. The GCC area has three major rivers in its jurisdiction: the Silai, Turag and Balu rivers. According to GCC engineers, the Silai and Balu rivers both have good quality surface water, while the Turag River is polluted from chemicals from adjacent industries. Though the GCC uses ground water, there is no evidence of land subsidence. Furthermore up until now, the GCC has no record of arsenic or iron pollution in the water.

**Table 2-1: Existing Bodies of Water**

| Type         | #     | Length (km) | Area (acre) |
|--------------|-------|-------------|-------------|
| Ditch        | 1,898 | 105.2       | 1.3         |
| Khal (Canal) | 4     | 87.7        | 20.9        |
| Pond         | 3,628 | 217.0       | 51.7        |
| River        | 1     | 54.1        | 12.9        |
| Swamp        | 378   | 55.8        | 13.3        |
| Total        | 5,909 | 519.9       | 100.0       |

Source: RAJUK



Source: DAP Project, RAJUK

**Figure 2-3: Hydrological Map of GCC**

### 2.1.3 Geology

#### (1) Outline

The Gazipur District has greater variety of soils than any other district in Bangladesh – this is caused by two major phenomena. First, the district lays in the hub of the Capital City where three major rivers of the territory come together, each of them depositing alluvial sediment. Second, large areas with older sediments have been uplifted tectonically, and they were cut by valleys and weathered to varying degrees. Each of the soil portions develops in different way. In general, soils are young and closely reflect the properties of their parent materials.

The Madhupur and Bhawal Jungle tract is like a scroll that has recorded the fascinating history of uplift and subsidence, of erosion and deposition, of changes in sea level, climate, and vegetation, and of man's changing patterns of occupation. These phenomena have all affected this area over the past several thousand years and have contributed to the distinctive form it bears today. More and more is being gleaned from soil survey findings in Bangladesh. The exceptional uniformity of clay sediments of this area, both laterally and vertically, suggests that they were laid down under tidal or marine conditions, which must have continued without tectonic or other disturbance over a long period of time. The geological age of these sediments is uncertain. On the Geological Map of Bangladesh, it is conjectured that they may be of Dupi Tila (Miocene) age even though they are generally called Pleistocene clay.

Following deposition, these sediments were uplifted in several stages, and even in several pieces. Earthquakes occurring in the Gazipur District in historic times show that this movement still continues today. The tract now forms a terrace representing a fault block, or series of fault blocks, slightly tilted to the southeast so that the western edge generally stands 3–6 m above the adjoining floodplains. The southeastern part is low and has been encroached upon by Old Brahmaputra floodplain sediments.

After uplift, dissection occurred and valleys were cut into parts, locally known as *baidis*<sup>1</sup>, which add to the character and charm of the tract today. These valleys are of two kinds – deep and sometimes broad, and shallow and usually narrow. The clays found in this area are quite different in appearance and characteristic from adjoining floodplain deposits and appear to be much older. The soil found in this area is light grey and rather silty. The characteristic soil of these valleys have not been found overlaying buried clays and organic layers of the deeper valleys they sometimes run into. From this evidence, it seems likely that the shallow valleys may be older than the deeper ones.

With this checkered history, it is not surprising that soil conditions in the Madhupur Jungle tract are varied and often complex. A surprising range of soils is found, from red lateritic soils at one extreme to almost undeveloped soils of raw Pleistocene clay at the other, with numerous intermediate stages between them and several kinds of soils occurring in the associated valleys.

#### (2) Geological Advantages

The well-known Dhaka red clays are found in almost every area in GCC. They occupy flat highland areas where deep valleys have dissected the terrace. Due to good drainage on these sites, parent materials have become deeply weathered and oxidized. This deep weathering probably took place when the sea level and the local base level were lower than they are now (that is before valleys were partially filled to their present levels). The soils are relatively mature. In profile, the valleys consist of a thin brown loamy topsoil overlying a red, friable, clay loam to clay subsoil which at 0.7–1.5 meters grades into a strongly mottled friable to clay substratum.

---

<sup>1</sup> *Baidis* are the land prepared for the production of paddy seedlings. *Baidis* may be of a smaller or larger scale. Larger *baidis* are used for mixed *aman* and *aus* production. See below for the meanings of *aman* and *aus*.

The soil is red, brown, and drained, and is acidic, which results in relatively low in plant nutrients. They are mainly used for jackfruit, mango and other fruit trees, together with *aus* (rainy season paddy field)<sup>2</sup>, *mesta* (a part of jute), mustard, groundnuts and winter vegetables.

A few areas remain forested. Annual crop yields are often low because of exhausted soil fertility on long cultivated sites and of droughtiness of the topsoil during dry periods. These soils have good potential for improvement nonetheless. With irrigation (perhaps from deep tube wells) and fertilizers use, these fields could produce higher crop yields of sugar cane, dry-land cereals, fodder grasses and legumes, as well as fruits. Phosphorus fixation can be a problem on these soils, but it is easily correctable by placement (instead of broad-casting) of suitable phosphoric fertilizers.

The deep valleys adjoining these red soils typically have extremely heavy dark grey clay soils, some of them containing buried organic or black clay layers. They are highly acidic in reaction, although the topsoil becomes neutral when submerged. During the monsoon season, these soils are mainly flooded with water 8–15 feet deep or more. Most are used for broadcast *aman*, but *boro* is preferred in the deepest *baidis*. Fertilizers could increase yields, while the use of better ploughs and heavier draught animals or tractors could improve seedbed preparation. Lastly, the narrowness of most valleys would be improved by flood protection, which would improve irrigation, which is difficult in generally. These soils are only well suited for rice cultivation. Paler colored soils, occupying some deep valleys in various parts of the tract, are similar to those of the shallow valleys.

The shallow *baidis*, which occur among the latter group of soils, are light grey and excessively porous, with silty clay loams that grade into grey heavy clay below 2–4 feet. In some places, similar soils are present in deep *baidis* among the red soils as well. These soils are acidic in reaction, rather low in plant nutrients near the surface and very droughty in the dry season. Flooding depth is mainly 1–3 feet, but up to 8 feet in some larger *baidis*. Transplanted *aman* (the paddy field in late rainy season and winter season) is a major crop, but broadcast *aman* is grown in somewhat deeper *baidis*, sometimes mixed with *aus*. Fertilizers could increase yields considerably on these soils. The narrow *baidis* and porous soils would make it difficult to provide large-scale irrigation, but if irrigation could be provided from small tube-wells, a good *aus* or jute crop could be grown, as well as dry season pulses, fodder, wheat, barley, millet or vegetable crops.

North of Tongi and Joydevpur Thana extensive low-lying flat terrace areas exist, which have olive-yellow heavy clays with thin, grey, silty clay loam topsoil. In the Tongi area, these soils are flooded 1–2 feet deep by rainwater during the monsoon season and are used for *aus* and transplanted *aman*. In both areas, the soil becomes very dry in the dry season. Top soils are acidic when dry, but neutral when flooded. Subsoil is mainly neutral to moderately alkaline and locally contains lime nodules. These soils are best suited for rice cultivation and are not well suited for dry land crops. Rice yields could be greatly increased by the use of fertilizers. Irrigation (by pumping from the Turag River) would greatly benefit the Tongi soils. Dry season irrigation (from the Sitalakhya River) would enable high yields of *boro* (paddy field in summer season). (Source: DAP Project, RAJUK)

---

<sup>2</sup> In Bangladesh there are three kinds of paddy produced in three seasons – *aus*, *aman*, and *boro*. An *aus* paddy is produced in rainy season, an *aman* paddy is produced in the late rainy-winter season, and a *boro* paddy is produced in summer season.

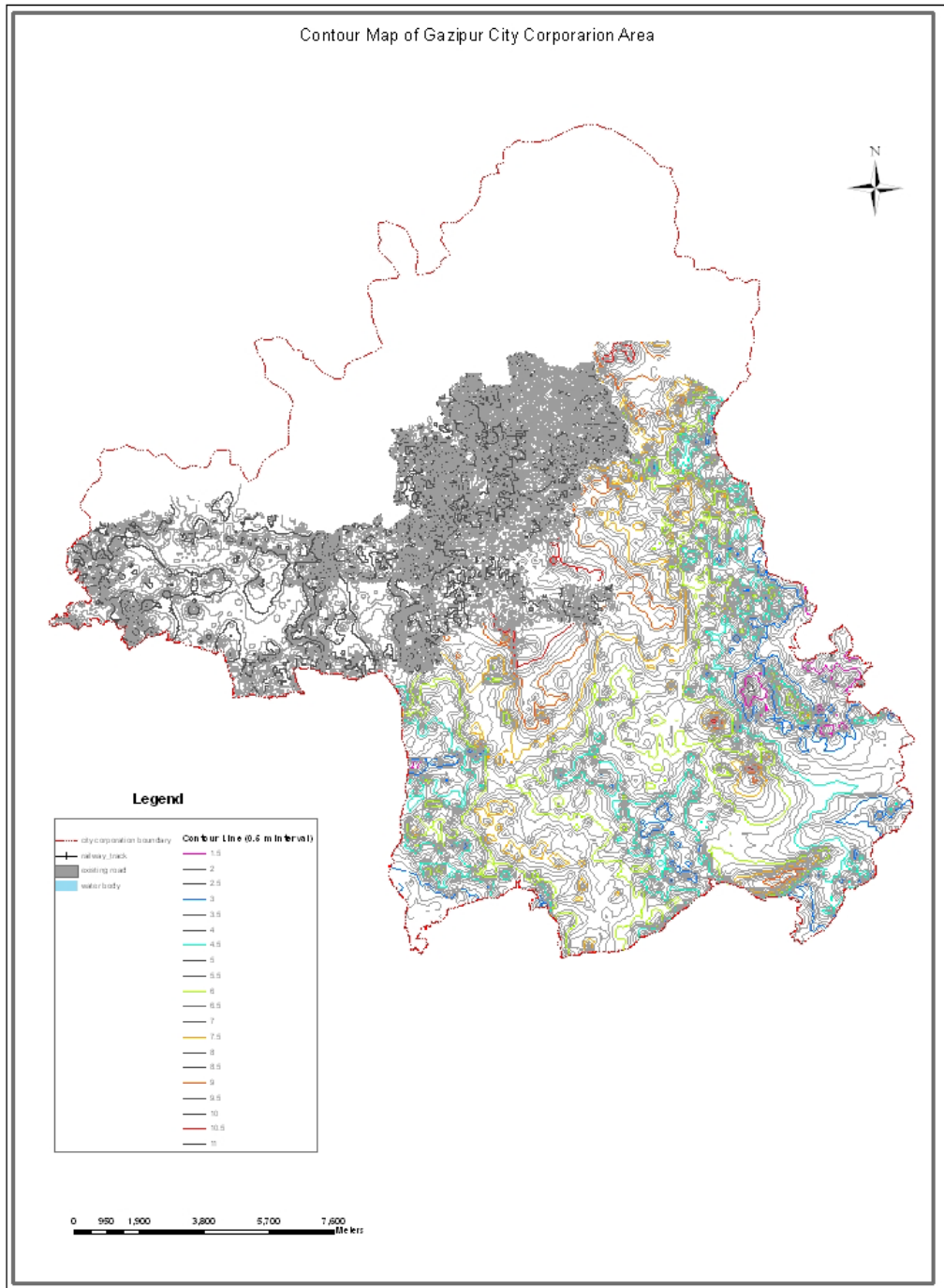


#### **2.1.4 Topography**

According to the contour map of the GCC, the highest elevation is 22.5 m (Kamargaon Mouzain the Pubail Union) as measured by the Public Works Department (PWD). Dense contour areas are generally high lands found in Gazipur, the Baria Union, some areas of the Gachha Union and the southern part of Pubail Union. Medium-dense contour areas are observed in the Pubail, Gachha, and Tongi unions. (*Source: Topographic Survey, 2005–2006*)

The terrace topography of the GCC area is not flat, but consists of ridges separated by a close pattern of shallow baidis. Such areas exist extensively throughout Joydevpur. The principal type of clay on slopping areas is a reddish-brown to yellow-brown clay that is much less friable than the Dhaka red clays. This is usually intermixed with pale brown, very porous, silty clay loams. On small flat areas at the heads, there are pale grey (almost white), very porous, silty clay loams, which are flooded with rainwater during the monsoon season because of the bunds made by farmers. All these soils overlie grey, very heavy and impervious, unaltered Pleistocene clay at only 12–30 inches.

The clay is rather acidic, while the pale colored soils appear to be low in plant nutrients. The red and brown soil has mainly been left under the Gajari Sal Forest. This is their best use since they are poor agricultural soils. Where cultivation has been attempted, poor yields have been obtained and most of these areas are now used as poor grazing land. The grey soils are used for aus and transplanted *aman*. Yields could be considerably improved with fertilizer use. With irrigation (from tube wells) good crops could be produced throughout the year.



Source: DAP Project, RAJUK

**Figure 2-4: GCC Contour Map**

### 2.1.5 Soil Condition

North of Tongi and Joydevpur Thana extensive low-lying flat terrace areas exist with olive-yellow heavy clays with thin, grey, silty clay loam topsoil. In the Tongi area, these soils are flooded 1–2 feet deep by rainwater during the monsoon season. The soils become very dry in the dry season.

Top soils are acidic when dry, but neutral when flooded. Subsoils are mainly neutral-to-moderately alkaline and locally contain lime nodules. The dense contour areas are generally highlands found in Gazipur, Baria Union, some areas of the Gachha Union and the southern part of the Pubail Union. The medium dense contour areas have been observed in Pubail, Gachha, Tongi and Nagari Union.

From a geological setting and topography perspective, Tongi and Gazipur are more or less free from any fault line. The area lies between the Banar Fault (in the east) and the Turag Fault (in the west). The area lies in the earthquake Zone 2 ( $z = 0.15$ ) according to the seismic map of Bangladesh (BNBC, 1993). Besides the main sediments in most parts, the study area is poorly compacted, highly plastic, with collapsible thick peat and organic clay layers. With the presence of organic layers and sediments with low compaction, the area is considered to be of a weaker foundation layer.

Source: Soil Resource Development Institute

## 2.2 Socio Economic Condition of GCC

### 2.2.1 Social Condition

#### (1) Population

The GCC population is just under 1.0 million, with 70,000 more males than females.

**Table 2-2: Population of GCC**

|     | Male    | Female  | Total (Male + Female) |
|-----|---------|---------|-----------------------|
| GCC | 528,531 | 461,027 | 983,640               |

Source: Population Census 2011, BBS

#### (2) Income Level

Data is not available at the GCC level.

#### (3) Education Level

Tables 2-3 and 2-4 present the GCC education level in terms of literacy and school attendance rates, respectively. About 70% of GCC residents are literate, with males have 10% higher literacy. In terms of school attendance rates, half of all minors attend schools in the GCC.

**Table 2-3: General Education Level of GCC by Literacy Rate**

| Literate (can write a letter) |         |         |         |         |         |
|-------------------------------|---------|---------|---------|---------|---------|
| Both                          |         | Male    |         | Female  |         |
| Yes                           | No      | Yes     | No      | Yes     | No      |
| 937,781                       | 452,708 | 536,823 | 216,571 | 400,958 | 236,137 |
| 67.4%                         | 32.6%   | 71.3%   | 28.7%   | 62.9%   | 37.1%   |

Source: Bangladesh National Census 2011,(Adjusted June 2012) BBS

**Table 2-4: School Attendance by Age Group**

| Population aged 3-5 years |        |                      |        | Population aged 6-10 years |        |                      |        | Population aged 11-14 years |        |                      |        |
|---------------------------|--------|----------------------|--------|----------------------------|--------|----------------------|--------|-----------------------------|--------|----------------------|--------|
| Attending school          |        | Not attending school |        | Attending school           |        | Not attending school |        | Attending school            |        | Not attending school |        |
| Male                      | Female | Male                 | Female | Male                       | Female | Male                 | Female | Male                        | Female | Male                 | Female |
| 7,826                     | 7,410  | 39,295               | 37,792 | 58,376                     | 53,773 | 19,822               | 19,011 | 36,391                      | 33,876 | 13,667               | 14,063 |
| 51.4%                     | 48.6%  | 51.0%                | 49.0%  | 52.1%                      | 47.9%  | 51.0%                | 49.0%  | 51.8%                       | 48.2%  | 49.3%                | 50.7%  |

Source: Population Census 2011, BBS (Table 7)

## 2.2.2 Community Institutions

### (1) NGOs of GCC

There are a number of NGOs working in GCC and here focused three distinctive NGOs working to facilitate waste collection system with CC. Those are:

- (a) BASA – Bangladesh Association of Social Activities
- (b) Practical Action
- (c) World Vision

BASA provided vans, containers and manpower; and Practical Action are also working with BASA jointly to help conservancy department. The NGOs mainly help the CC in collecting wastes from individual houses. They perform the work of primary waste collection and keep the waste in specified space. Disposal works are accomplished by the laborers of the conservancy department. In future, BASA intends to provide the CC with trucks to assist the waste collection system. But presently they have provided only few numbers of vans and trolleys.

Recently the CC came to an agreement with BASA to utilize the municipal solid waste for producing fertilizer to be used for agricultural farms. In this arrangement, about 75% of the solid waste will be taken by BASA. It will be a good solution for solid waste management of the entire area, if this system works well.

BASA is utilizing low cost medical incinerator to treat the waste material collected from the hospitals and clinics. They have also started making vermi-compost successfully. Practical Action is cooperating with BASA in all these innovative activities.

At present the NGOs like BASA and Practical Action are already engaged in preparation of fertilizers on pilot basis in a rather small scale with an intention to expand in future when solid waste will be available from the CC. In this connection, the following plants have been established:

**Table 2-5: Solid Waste Recycling Plants in Gazipur by NGOs**

| Serial Number | Name of Recycling Plant | Name of NGO      |
|---------------|-------------------------|------------------|
| 1             | Vermi-Compost Plant     | Practical Action |
| 2             | Compost Plant -1        | BASA             |
| 3             | Compost Plant – 2       | Practical Action |
| 4             | Low Cost Incinerator    | Practical Action |
| 5             | Sharpest Plant          | Practical Action |

Source: Conservancy Department of Gazipur

### (2) Major Facilities in the GCC

Table 2-6 describes major facilities of the GCC. Compared to the three other CCs, the GCC generally has more service facilities such as commercial and education facilities.

**Table 2-6: Major Facilities**

| <b>Facility Name</b>                           | <b>#</b> |
|--|----------|
| <b>Religious Facility</b>                      |          |
| 1. Mosque                                      | 659      |
| 2. Eidgha                                      | 11       |
| 3. Temple                                      | 22       |
| 4. Graveyard                                   | 62       |
| 5. Church                                      | 7        |
| 6. Shashan Ghat                                | 04       |
| <b>Educational Institution</b>                 |          |
| 7. Primary School                              | 156      |
| 8. High School                                 | 70       |
| 9. College                                     | 10       |
| 10. Government College                         | 01       |
| 11. Government High School                     | 01       |
| 12. Government Training College                | 02       |
| 13. Girls High School                          | 02       |
| 14. Private College                            | 15       |
| 15. Madrasa                                    | 179      |
| 16. Kindergarten                               | 212      |
| 17. Orphanage                                  | 24       |
| <b>Health Facility and Medical Institution</b> |          |
| 18. Government Hospital                        | 03       |
| 19. Private Clinic                             | 60       |
| <b>Recreational Facility</b>                   |          |
| 20. Cinema Hall                                | 03       |
| <b>Shopping Market</b>                         |          |
| 21. Hat  | 06       |
| 22. Daily Market                               | 24       |
| 23. Pouro Market                               | 06       |
| 24. Market                                     | 34       |

Source: GCC, At a Glance

### 2.2.3 Industrial Condition of GCC

As there is no data collection at the GCC area, Table 2-7 describes the major industrial gross value added in Gazipur District, which contains the GCC area. The GCC is abundant with textile industries (manufacturing of silk and synthetic textiles, knitwear, apparel, and garments except fur) and cement industries – the gross value added for GCC in 2005–06 represented the second largest amount of the five CCs in ICGP (followed by NCC, CoCC and RCC).

**Table 2-7: Gross Value Added by Industrial Group  
(2005–06, in thousand BDT)**

| <b>Industry</b>                         | <b>Gross Value Added</b> |
|---|--------------------------|
| Jute Textiles (except Handloom)         | 94,000                   |
| Silk and Synthetic Textiles             | 1,419,786                |
| Leather Footwear                        | 339,573                  |
| Paints and Varnishes                    | 193,139                  |
| Glass Manufacturing                     | 7,069                    |
| Glass Products                          | 9,904                    |
| Cement Products (2694)                  | 108,187                  |
| Plumbing Equipment and Metal Sanitation | 34,602                   |
| Wire and Cable Product Manufacturing    | 50,340                   |
| Pharmaceutical Preparation              | 67,190                   |
| Knitwear Manufacturing                  | 8,789,188                |
| Apparel, Garments (except Fur)          | 6,547,666                |
| Wooden Furniture Manufacturing          | 62,637                   |
| Dairy Products Manufacturing            | 39,632                   |

Source: Sustainable Cities, Inclusive Growth, PPRC Urban Strategy Study, Task A  
Dynamics of Industrial Location by Professor M.A. Taslim

## **2.3 Present Urban Planning of GCC**

### **2.3.1 GCC Master Plan of GCC**

GCC does not have its own Master Plan. However, the Planning Authority of the Dhaka Metropolitan Area (RAJUK), which includes GCC and NCC, recently prepared a Detailed Area Plan (DAP) for the entire DMDP area (which GCC is also a part of). RAJUK controls the entire DMDP area according to the DAP; GCC also follows the Master Plan (1995–2015).

The Detailed Area Plan (DAP) is the third and final tier of the DMDP (Dhaka Metropolitan Development Plan) 1995–2015. The DMDP is a three-tier plan package which includes the Structure Plan, the Urban Area Plan and the Detailed Area Plan. The first two DMDP tiers (i.e., the Structure Plan (1995–2015) and the Urban Area Plan (1995–2009)) were prepared in 1995 under the Project ‘Preparation of Structure Plan (SP), Urban Area Plan (UAP) and Detailed Area Plan (DAP) - Metropolitan Development Plan Preparation and Management in Dhaka’.<sup>3</sup>

The third tier of the DMDP, namely the Detailed Area Plan, was prepared by RAJUK under a separate project named the ‘Preparation of Detailed Area Plan (DAP) for Dhaka Metropolitan Development Plan’. This project, a six and a half year project from August 2004 to December 2010, followed strategies and guidelines mentioned in the Structure Plan and the Urban Area Plan. The total project cost was BDT 2494.66 lacs. The project was financed from RAJUK’s own revenues source.

The DAP was prepared for the DMDP, an area of 590 sq. mile (1,528 km<sup>2</sup>). In order to complete the task efficiently, RAJUK divided its geographic area into five groups and eleven locations, awarding five local consulting firms with contracts. Contracts were awarded to the following: (i) DDC Ltd. for Group-A, Group-A Ext. (Part-D), Locations-3,4 and 15; (ii) EPC Ltd. for Group-B and Group-B Ext. (Part-D); (iii) Gani Bangla Ltd. for Group-C, Group-C Ext. (Part-D), Locations-9, 11, 16; (iv) Sheltech (Pvt.) Ltd. for Group-E, Group-E Ext. (Part-D), Locations-1, 2, 10; and (v) BETS Ltd. for Locations-5, 6. For efficiency, Group-D tasks were awarded to

<sup>3</sup> This project was under UNDP Project No. BGD/88/052 and TAPP No. TA/ BGD/ 88 /052 with technical assistance from the United Nations Centre for Human Settlement-UNCHS.

DDC Ltd., EPC Ltd., Gani Bangla Ltd. and Sheltech (pvt.) Ltd. Geographic extent of these areas is described below:

- Group-A (Northeast Area) covers three PSs including Tongi, Gazipur and Kaliganj, along with surrounding rural settlements and floodplain areas of the Balu, Sitalakhya and Brahmaputra rivers.
- Group-B (Southeast Area) covers Narayanganj PS, Kadam Rasul PS and its surrounding areas, the Dhaka-Narayanganj-Demra (DND) Delta, flood protected areas including Siddhirganj PS.
- Group-C (Central Area) is surrounded by the Buriganga, Sitalakkhya, Balu, Turag and Tongi Khal rivers. The Dhaka City Corporation (DCC) area of jurisdiction is within Group-C. Group-C covers important establishments in Dhaka including the Bangladesh Secretariat, Motijheel, Kawran Bazar commercial areas, Old Dhaka, the international airport, etc.
- Group-D (Southwest Area) covers Keraniganj and Zinjira. The rest of the area consists mainly of Dhaleswari floodplains.
- Group-E (Northwest Area) covers Savar PS, Export Processing Zone (EPZ), and the Turag floodplains. Locations-9, 11, 16 covers the eastern fringe of Dhaka, while other locations are in different parts of Dhaka.

DAP forecasts a 2015 population of 18.43 million based on the 2001 Census (population in 2011 was 10.24 million). The overall annual growth rate is about 4.29%. The DAP preparation stages included geo-referencing mauza maps, conducting different types of surveys, consulting with stakeholders, preparing a draft plan, conducting public hearings, and preparing the final plan. Socio-economic, physical feature, topographic and land use surveys were completed between 2005 and 06. A high-tech digital GIS (Geographic Information System) database for Dhaka was prepared for the first time under this project. Survey of Bangladesh (SOB) was responsible for validating survey activities. A series of consultation meetings were held with local government authorities (both wards and PSs), Honorable Members of the Parliament from the RAJUK area, concerned development agencies (i.e., RHD, LGED, WASA, WDB etc.), academics, professionals, socially concerned groups, study groups, and business groups.

Recently, GCC, in cooperation with LGED and RAJUK, plans to develop its own master plan during 2014–16. The process is being finalized now.

### **2.3.2 Historical Changes in Municipal Boundary**

GCC was declared the 11th city corporation on 7 January 2013. Tongi and Gazipur were made municipalities (PS) in 1974 and 1986. The Gazipur Municipality, with an area of 329.53 km<sup>2</sup>, was upgraded to a city corporation in 2013. The Tongi Municipality, with an area of 32.36 km<sup>2</sup>, will merge with the proposed Gazipur City Corporation, according to a local government division proposal.

According to the GCC Gazette, GCC will include the Gazipur Pouroshava, Tongi Pouroshava, Pubail unions, Gaccha Union, Kaultia Union, Kashimpur Union, Konabari Union and part of the Faokol, Chakulia and Banua Mouzas.

Factors considered in the proposal to upgrade the municipalities into a city corporation included: population and density, local revenues, commercial importance, infrastructure facilities, and areas of Gazipur and Tongi.

### **2.3.3 Historical Changes in Land Use in GCC**

#### **(1) Outline of Land Use Regulations**

Infrastructure standards are intended for use by sectoral agencies and for land development projects. These standards should be used by the RAJUK to control unwanted development, while granting approval to private real estate companies. Standards can also be useful for RAJUK's own land development projects. DMDP experts observed limited use of infrastructure standards, along with gaps in the existing regulations.

In the DAP, recommendations are made to guide future expansion to ensure the best possible physical layout and optimal economic use of the land. Since these recommendations or proposals would affect both the natural and socio-economic environments, certain principles were specified in the Dhaka Metropolitan Development Plan (1995–2015), which were adopted by the DAP:

- Minimize spillover effects where land use in one location poses environmental or other threats on adjacent sites or the community as a whole;
- Increase efficiency by guiding development towards preferred locations and uses;
- Allocate land for infrastructure and community services;
- Create an attractive urban environment;
- Improve land distribution among different income groups, and ensure benefits accrue to the community; and
- Improve living conditions for all income groups.

Source: DAP Project, RAJUK

#### **(2) Detailed Planning Zone (DPZ) Area**

Several considerations are applied in the formation of a Detailed Planning Zone (DPZ) such as the Existing Urban Area (PS) and New Urban Area (Union). Administrative jurisdiction is followed by the formation of a DPZ. At the same time, similar land use types are considered. There are 2 PSs and 17 unions in the study area. The Tongi PS contains 12 wards and is divided into two DPZs. The Gazipur PS contains nine wards and is divided into three DPZs. Overall there are 17 unions, which are classified into five DPZs. The GCC area covers six DPZs:

- DPZ-01 Gazipur PS- Ward 01, 02 and 03
- DPZ-02 Gazipur PS- Ward 04, 05 and 06
- DPZ-03 Gazipur PS- Ward 07, 08 and 09 and part of the Basan Union
- DPZ-04 Gaccha
- DPZ-05 Tongi PS
- DPZ-07 Pubail



**Table 2-8: Proposed Land Use for GCC Area**

| Land use Type  | Area (acre) | %     |
|--|-------------|-------|
| Administrative Zone  | 9.3         | 0.0   |
| Agricultural Zone  | 18,006.2    | 30.9  |
| Commercial Zone (Business)                                 | 9.8         | 0.0   |
| Flood Flow Zone  | 10,806.4    | 18.6  |
| General Industrial Zone                                    | 313.3       | 0.5   |
| Heavy Industrial Zone                                      | 783.0       | 1.3   |
| Institutional Zone   | 892.4       | 1.5   |
| Mixed Use Zone (Residential-Commercial)                    | 422.3       | 0.7   |
| Mixed Use Zone (Residential-Commercial-General Industrial) | 680.7       | 1.2   |
| Mixed Use Zone (Residential-General Industrial)            | 232.0       | 0.4   |
| Non-Conforming Use   | 860.8       | 1.5   |
| Open Space   | 414.4       | 0.7   |
| Overlay Zone   | 1,369.2     | 2.4   |
| Proposed Road  | 2,768.0     | 4.8   |
| Rural Settlement Zone                                      | 7,481.6     | 12.8  |
| Transportation & Communication                             | 460.6       | 0.8   |
| Urban Residential Zone                                     | 10,749.2    | 18.5  |
| Water Retention Area                                       | 192.0       | 0.3   |
| Water Body   | 1,777.7     | 3.1   |
| Total  | 58,228.9    | 100.0 |

Source: Dap Project, RAJUK

### (3) Existing Land Use

Spontaneous urban growth is found in this DPZ, concentrated around institutions such as the Bangladesh Agriculture Research Institute, the Rice Research Institute and the Engineering University. National Ordinance Factory, Security Printing Press and RAB training center are also situated here. Predominant land uses include residential (40%), agriculture (32%) and restricted (19%).

There are 6,603 residential structures in the DPZ-01 - 13.98% of these are pucca (or permanent structures), 45.43% are semi-pucca (or partly permanent structure), and 17.39% are katcha (or temporary structured buildings), respectively. Residential growth has occurred largely on Shibbari Moar Road and Upazila Road, as well as the Chatar, Mariali and Bhurulia areas. In these areas, unplanned and dense development has occurred along roads in a series of ribbon or linear patterns that surround a complex network of narrow and congested road with small lanes. Despite the high density of the new development, many opportunities exist for infill development. Due to rapid urbanization, extensive areas of agricultural land will be used for residential purposes. Agricultural practices such as cultivation of lowland rice and upland vegetables, high value cash crops, fisheries, and dairy are also found in the area.

A small number of manufacturing industries have developed without planning. DPZ-01 contains light and medium scale industries including a large number of poultry farms, saw mills, dying industries, iron and steel processing industries, and textile and rice mills. The total road network in the area covered by DPZ-01 is 97.56 km – including 43.00 km of paved roads, 42.35 km of half-paved roads, and 12.21 km of unpaved roads, respectively.

## 2.4 Present Infrastructure of GCC

### 2.4.1 Road and Transportation

Gazipur City Corporation is consisted of 28 wards including two former PSs (Gazipur and Tongi PS) and two unions named Gaccha and Pubail. Gazipur City Corporation is situated beside the capital city Dhaka. The communication system is sound by roads networked throughout the region. Four National Highways passed through the region. Among them, Dhaka–Mymensing Highway (N3) exists with largest length of 25 km. Besides Joydebpur–Jamalpur (N4), Madanpur–Joydebpur (N105) and Abdullahpur–EPZ (Baipile Bazar) (N302) Highways also run through the CC. There are 6 Regional Highways, 2 district roads and some local roads situated in the CC.

Rickshaw is widely used for travelling short distance. In recent years the battery-driven auto rickshaw has also become very popular. Intercity bus service is also available in the City Corporation.

RHD (Roads and Highways Department), City Corporation authority and LGED are the agencies those manage roads of the city corporation. There are no toll roads in GCC.

One bus terminal and one truck terminal are available in the city corporation area. The bus terminal is situated at Joydebpur (near bazaar) and the truck terminal is near Cheragali (Tongi).

In Gazipur City Corporation, existing traffic and transport infrastructure is not at the satisfactory level. There is no designated bus stand exists in GCC. However, there are several numbers of informal bus stoppages. There are no formal parking facilities available for Auto Rickshaw, Rickshaw, and Trucks within the CC area.

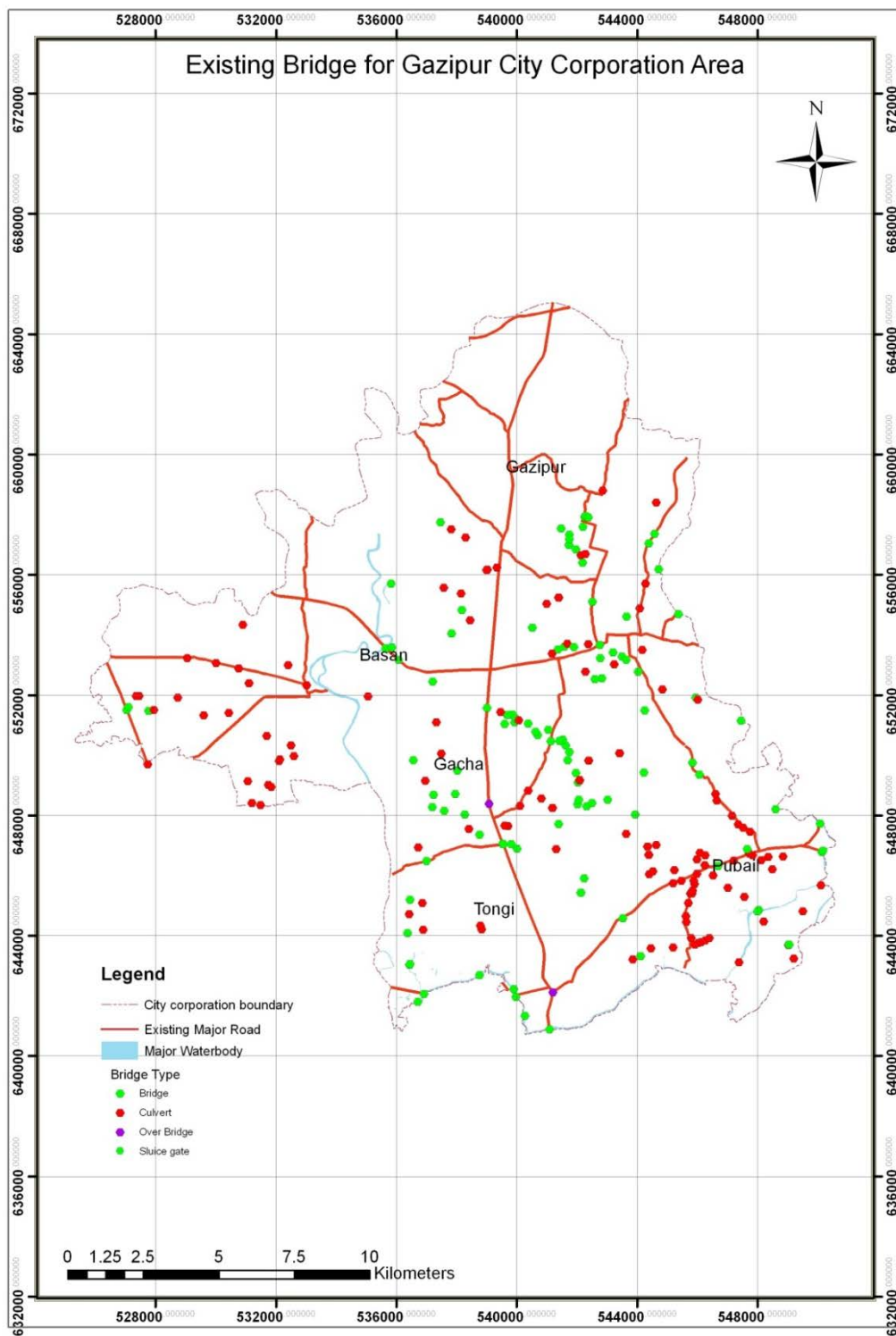
### 2.4.2 Bridges/Culverts

Different types of culverts and bridges are situated in the City Corporation area. Ward and union wise Bridges, Box Culvert, Over Bridges, Railway Bridges, etc are shown in Table 2-9. There are 152 Box culverts and 117 bridges in the CC area over the rivers, canals and drainage channels. 2 over bridges and 1 over bridge have been found over the river and canals in the CC area.

**Table 2-9: Bridges and Culverts in the Study Area**

| Type         | No.        | %            |
|--------------|------------|--------------|
| Bridge       | 117        | 43.0         |
| Culvert      | 152        | 55.9         |
| Flyover      | 1          | 0.4          |
| Over Bridge  | 2          | 0.7          |
| <b>Total</b> | <b>272</b> | <b>100.0</b> |

Source: RAJUK



Source: GCC

Figure 2-5: Existing Bridge of GCC

### 2.4.3 Drainage System

Natural drainage from the GCC area typically occurs in the following manner – the Lakshmipur Khal that originates northwest of Gazipur PS flows towards the east and southeast and crosses the Dhaka Mymensigh Highway and rail line, before falling to Chalai Khal. Another big khal, Chenainodi Khal, originates from Chapuli and Bhurulia Mouzas, and flows past the eastern side of the PS and meets the outfall of the Gazipur PS. Natural drainage flows from the northwest to the southeast by the Tongi khal (a distributor of the Banar River) through its tributaries.

These represent the principal natural drainage arteries of the GCC area. The Gazipur area consists of the Lakshmipur Khal, Chalai Khal and Chetal Khal Nadi. In addition to these canals, there are large ponds, bodies of water and lowland areas in the south and southeast that influence drainage of the CC area. The drainage flow after passing through the aforementioned canals reaches the lowlands of Beel Belat, Pubail and Kayer Mouzas. On the other hand, There are three khals in Tongi area (Tongi Khal, Hyderabad Khal and Vadam Khal) and 92.0 km of man-made drains in the CC<sup>4</sup>.

A drain is a structure that carries water normally from surrounding area. A major part of the water is produced by the rainfall runoff which is carried by the drain. The lengths of drains are available for Tongi PS including Gacha and Pubail. There are in total 63.50 km drain network exists in the City Corporation. Among them 29 km are brick drains, 9.5 km RCC and 25 km are earthen drains (Table 2-10).

**Table 2-10: Drain Condition**

| <b>Drain Type</b> | <b>Length (km)</b> |
|-------------------|--------------------|
| Brick Drain       | 29                 |
| RCC Drain         | 9.5                |
| Earthen Drain     | 25                 |
| <b>Total</b>      | <b>63.50</b>       |

Source: Tongi PS, Gazipur PS.

Note: There exist total 28.5 km (old) drains and 23.77 km canals and no rivers in Gazipur PS.

GCC area water logging causes serious problem in the case of moderate to heavy rain. The problem has emerged due to lack of sufficient road side drain and their connection with outfall through secondary drains. Encroachment on canals and indiscriminate filling of low lying areas without securing drainage channels has also contributed to the problem.

Drainage congestion may increase further with urban sprawl development. Faulty design, solid waste and rubbish dumping, encroachment and un-authorized structures, siltation, lack of renovation and re-excavation are the main causes of drainage congestion. Drainage system that exists in the CC area is not well enough to carry the surface run-off properly. The outlets of these drainage networks are mostly connected with the natural channels or canals. Conditions of these natural canals like Chelai Khal, Tongi Khal, Hyderabad Khal and Vadam Khal are dilapidated due to unauthorized encroachment. These canals will be silted due to siltation; as a result, drainage congestion generates. Thus many areas are subject to water logging during the heavy rainfall causing inconvenience to the citizens of the area.

Drainage situation of the study needs to be improved and to be brought to original state of good drainage. Natural drainage system improvement will accommodate the man-made drainage system (drains) well. In order to achieve this, the natural canals, river and water bodies need to

<sup>4</sup> Source: GCC, RAJUK

be maintained and clearing of these canals and rivers are to be done at regular intervals. Weeds, aquatic plants, water hyacinths etc. are removed or controlled so that flow in these canals and river remain high. Wastes should not be dropped and encroachment should be stopped. Drainage structures like bridges, culverts etc. should be built in such way that the natural flow does not hamper.

#### 2.4.4 Waterworks

Water bodies like river, pond, ditch and canal encompass the CC area (Table 2-11). Tongi and Gazipur PS areas are covered by water supply network operated by CC. Some people in the rural area especially people of Pubail depend on river and pond water for washing and bathing purposes. There are total 152.24 km water supply network exist in the CC (Table 2-12).

Source: Detailed Area Plan (DAP)

**Table 2-11: Natural Water Body**

| Type         | No.          | Length (km) | Area (acre)  |
|--------------|--------------|-------------|--------------|
| Ditch        | 1898         | 105         | 680          |
| Khal         | 4            | 88          | 227          |
| Pond         | 3628         | 217         | 1,121        |
| River        | 1            | 54          | 589          |
| Swamp        | 378          | 56          | 450          |
| <b>Total</b> | <b>5,909</b> | <b>520</b>  | <b>3,067</b> |

Source: DAP Project, RAJUK

**Table 2-12: Existing Water Supply Network**

| Diameter (mm) | Length (km)    |
|---------------|----------------|
| Unknown       | 135.796        |
| 100.00        | 8.832          |
| 150.00        | 7.205          |
| 200.00        | 0.410          |
| <b>Total</b>  | <b>152.243</b> |

Source: Dhaka WASA

There are total 3 overhead tanks in Gazipur City Corporation. Two of these are situated in Gazipur and another one is placed at Tongi. Total no. of house hold connections are 1961 and 8,595 in Gazipur and in Tongi respectively. There are total 30 production tube wells and 890 hand tube wells in the CC. In Tongi there also 22 pump house are situated.

According to Detailed Area Plan (DAP) by RAJUK and CC at a glance by GCC, there are typical problems in two regions.

#### Gazipur Region

Problems of water supply in the Gazipur Region are:

- Shortage of Deep Tube wells in operation with respect to the requirement of water supply for the households of the area.
- Water distribution pipelines do not cover the holding areas.
- Many Deep-set hand tube wells, private owned or community basis are out of order due to reduction of underground water layer.
- Some Deep tube wells of pump houses are not in operation due to reduction of underground water layer.

- Pump houses and deep tube wells and water distribution pipelines are not maintaining properly.

### **Tongi Region**

Problems of water supply in the Tongi Region are:

- Shortage of DTW in operation with respect to the requirement of water supply for the households of the area.
- Many deep-set hand tube wells are private owned or on community basis, most of them are out of order due to decreasing water layer.
- Some Deep tube wells of pump houses are not in operation or in partial operation due to reduction of underground water layer.
- Pump houses and deep tube wells and distribution pipeline are not maintained properly.

#### **2.4.5 Sewage System**

No sewerage system exists in the GCC. Maximum households build individual septic tanks for disposal of human excreta. In rural areas of GCC, sanitary latrines are used. These are mostly provided by NGOs and others are built on own initiatives. For disposal of toilet, affluence nearly 17% of the households use *katcha* (or temporary structured) latrines, 33% *semi pucca* (or partly permanent structure) and 28 % *pucca* (or permanent structures) latrines. Around 18% have pit latrines; while less than 3% of the households do not have any latrines.

Source: DAP project, RAJUK.

#### **2.4.6 Solid Waste Management**

In GCC, solid waste management programs exist in Gazipur and Tongi PSs areas, which only cover the central and core areas. There are well established solid waste dumping sites in each of these areas. The main dumping site (area 10.0 acres) of Gazipur area is located beside the highway in Bhurulia, which is in the north of the PS area.

In Tongi, there are two solid waste dumping sites. The Meghna dumping site is located about one kilometer away from the municipal area and has an area of 1.5 acre only. In this dumping site, the solid waste is recycled for producing compost. In the compost plant, there are 100 sheets having capacity of producing 3 tons in each. It can produce about 60 tons of fertilizer in every month. There is limited arrangement for treatment and recycling of solid waste in these areas, where NGOs are engaged in preparation of compost for using it in agricultural farms.

The other dumping site at Shilmon (area 1.0 acre) is located about 6 kilometers away from the center of the town and is a temporary arrangement only, which does not have any provision for producing compost.

Source: Survey Report- DAP project, RAJUK

GCC at present has a systematic way of collection of solid waste from different localities. As many as 28 solid waste collection vans and 4 medical waste collection vans are working to collect solid waste and deposit it to two definite places as well as the dustbins located in different places of the town. These vans collect solid waste from door to door of the houses. Six trucks are utilized to transport it to the main dumping place located at Bhurulia about 5 kilometers far from the center of the town.

There are 55 dustbins made of brick walls, which are in more or less good condition. The conditions of the remaining 40 movable metallic dustbins are poor. Collection of waste starts from early morning at 5-00 AM and ends at 3-00 PM. Sweepers collect solid waste all 7 days throughout the week. There are 61 sweepers headed by one chief sweeper under the control of one Conservancy Inspector. The equipments used by the CC are as shown in Table 2-13:

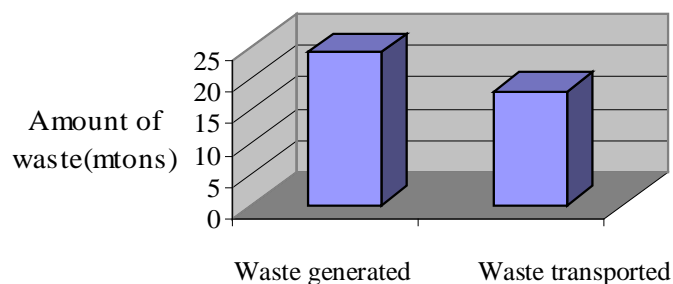
**Table 2-13: Equipments of the Gazipur CC Conservancy Department**

| Serial Number | Type of Vehicle              | Total Number |
|---------------|------------------------------|--------------|
| 1             | Slide waste collection van   | 28           |
| 2             | Medical waste collection van | 04           |
| 3             | Garbage truck                | 06           |
| 4             | Vim Lifter                   | 01           |
| 5             | Zip                          | 02           |
| 6             | Pick up Van Double cabin     | 01           |
| 7             | Road Roller                  | 07           |

Source: Gazipur CC Conservancy Department

The size of the trolley used for waste collection is 1 feet × 2.5 feet × 2.5 feet. Brick wall dustbins are 4 feet breadth × 5 feet length × 3 feet height, which are in good condition. Movable metallic dustbins are 2.5 feet breadth × 3 feet length × 2.5 feet height. The condition of these metallic dustbins is not so good.

As per information received, about 24 metric tons of solid waste is generated and collected daily but the quantity transported to the dumping place is only about 18 metric tons per day (Figure 2-6). This difference is resulted from various reasons. Some of the useful portion of the solid waste is separated by the young street children, who collect it for selling to potential buyers for recycling purpose. The other reason is that the weight of the material also decreases as it dries up with passage of time.



Source: RAJUK

**Figure 2-6: Waste Distribution Pattern of GCC**

The main dumping site is located at Bhurulia (Figure 2-7), which is about 5 km north of the center of the Paurashava. The area of the dumping site is about 10 acres, which is not sufficient as per information received from the conservancy department. Therefore the department is trying to find additional space to use it as dumping place. The department will buy land for this purpose as soon as it is available.

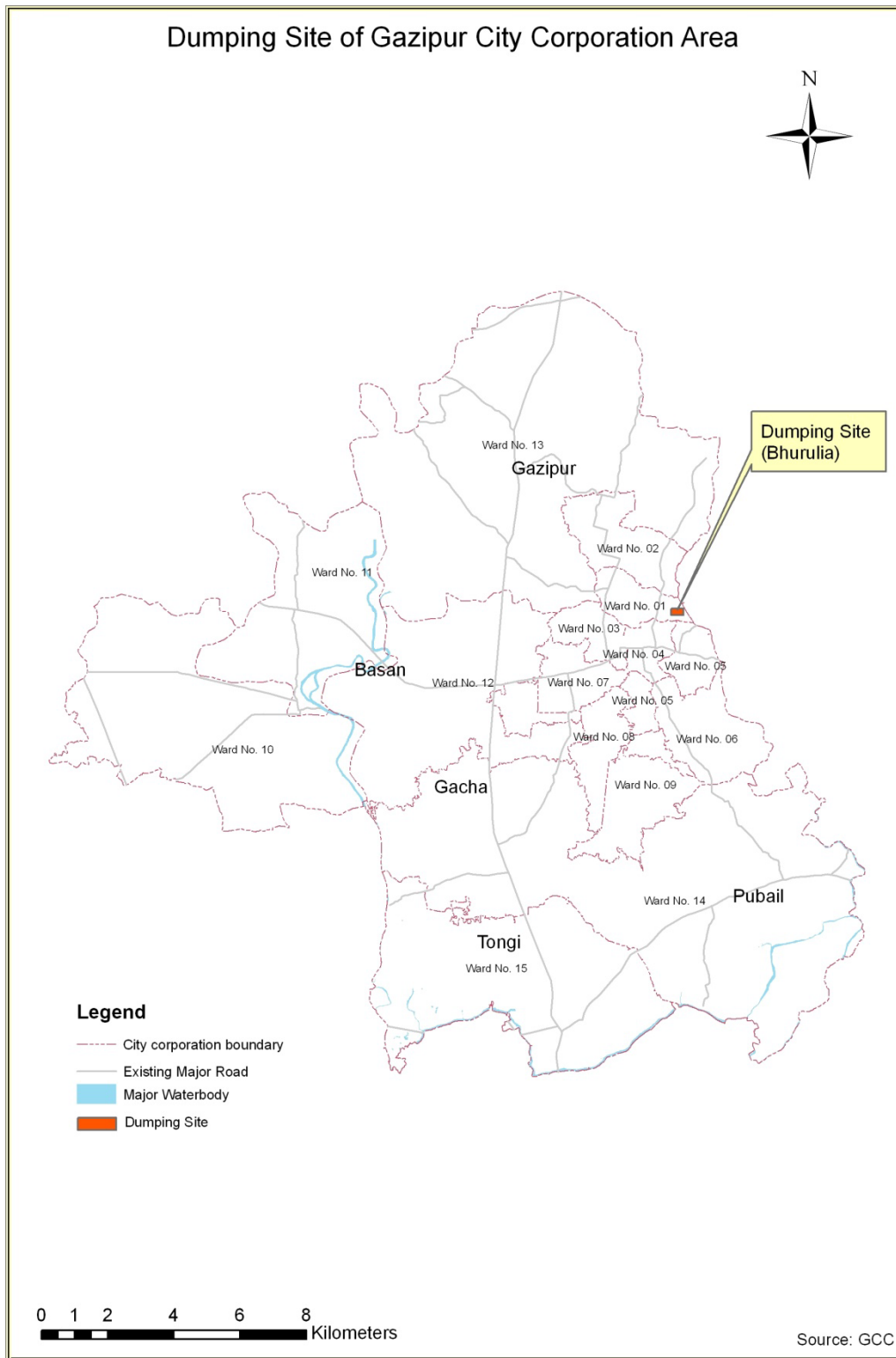
The solid waste is distributed in the dumping site haphazardly without proper planning. It seems that the same area could be used more efficiently if some pre-planned program of distribution could be decided from the beginning.

There are many problems encountered in the waste collection and disposal system. Solid waste collection and transportation is available only in Gazipur and Tongi PSs. Other urban areas and rural areas are dumping their solid wastes in the adjacent low lying lands and rivers and canals. Such practices are causing serious environmental problems of river waters. The conditions of the dustbins are also not good. Brick dustbins are damaged in many places; metallic dustbins are already rusted and will be out of service soon.

People are not aware of proper use of the dustbins. In most cases, local people throw the wastes from a long distance of the dustbins and the entire area surrounding the dustbin becomes dirty, which is difficult for the conservancy laborers to clean properly.

Source: Survey Report- DAP project, RAJUK





**Figure 2-7: Dumping Sites for GCC**

### **2.4.7 Electric Facilities**

There are two power stations in Tongi PS and 11 and 2 power generation houses in Tongi, and Gazipur respectively. All areas of GCC are enjoying electricity facility. For lighting more than 90% of the households use electricity, while less than 10% are using kerosene burners as source of light. Electricity mainly supplied in the study area by DESA/ DESCO/ PGCB/ REB / PBS through 132/33 kv grid sub-station and 33/11 kv sub-station, grid-towers and distribution poles are located at different places in the CC area. Consumption of electricity in the study area has increased rapidly due to rapid increase of residential buildings and rapid increase of commercial and industrial plants in Tongi area. The electricity supplies in this area are less in respect to the load demand.

Taking survey from Gazipur PS PBS, the total electrical load required for Gazipur PS area is about 120 MW, whereas, at present, electricity supplies 40/45 MW. So, about 66% to 75% load is to cover by load shedding in different areas. For Tongi PS area, required electrical load 106 MW but present electricity supplies 30/ 35 MW. So, about 66% load is to cover by load shedding in the areas. Due to presence of frequent load shedding in this area, the household dweller and commercial and industrial sector suffers badly and it causes great economic fall to the industrial sector and in the urban area, deep tube wells in the pump houses cannot supply water up to the mark, which causes shortage of water supply and bring sufferings to the people.

Source: Detailed Area Plan (DAP)

### **2.4.8 Gas Facilities**

Gas supply is available in almost entire urban locations within GCC area. In Tongi and Gazipur PS area, gas supply is provided by TITAS Gas Transmission and Distribution Co Ltd. (shown in the map enclosed). Gas source of the CC is from Joydevpur CGS (City Gate Station). There are two DRS (District Regulation Station) are in Joydevpur and Tongi. The gas transmission and distribution through feeder line to consumers use different sizes of pipeline and different pressure. A large number of structures have been found in the urban part of the survey area including buildings, institution and industries. Most of the buildings in the industrial, educational institution, CNG refueling station are provided with gas connection.

Source: Detailed Area Plan (DAP)

### **2.4.9 Gas Facilities**

Telecommunication system of the study area is provided and maintained by BTTB, through telephone exchanges located at different places. There are 7 (seven) telephone exchanges with large capacities. Instead of telephone, now a day, mobile phone network has developed in the area by some private mobile organization like Grameen Phone, City cell, Aktel, Banglalink, Airtel and Teletalk of BTTB. With the rapid increase of population in the study area, demand of telephone services increases rapidly. Now-a-days demand of telephone connection from BTTB decreases due to the uses of mobile phone among the people.

Source: DAP project, RAJUK

## Chapter 3 Vision and Goal Setting

### 3.1 Preliminary Analysis

The PIUCC organized workshop meetings, analyzed the current situation and developed future forecasts. The topics include:

- Population Forecasts;
- Resource Analysis;
- Industrial Layout; and
- Review of Current Visions and Strategies.

#### (1) Population Forecasts

The GCC is one of the largest and fastest growing CCs in terms of population with 2.5 million. Within 14 years, the population is expected to increase to 5.0 million. The current generation has a duty to prepare for future generations. Demand for road, water, and solid waste management, is increasing significantly. Thus, sustainability is one of the key considerations for infrastructure development. The 2011 Census estimated GCC population growth at 5.21% per year. The GCC area has significant farmland, which could be converted to residential area to facilitate population growth. Although it is possible that the population growth rate may slow and render forecasts inaccurate, the GCC should still prepare for rapid population growth.

**Table 3-1: Projection of Population in GCC**

| Present<br>Population<br>(Census 2011) | Growth Rate<br>(% / year) | Population<br>after 5 years | Population<br>after 25 years | Population<br>after 50 years |
|--|---------------------------|-----------------------------|------------------------------|------------------------------|
| 2.5 Million                            | 5.21                      | 3.22 Million                | 8.90 Million                 | 31.68 Million                |

Source: Census, GCC, ICGP

#### (2) Resource Analysis

Infrastructure planning needs to be demand driven. Planners, engineers and citizens currently make requests to address deficiencies within society. ICGP (Prep) believes that planning needs to make the most of their city's resources. ICGP (Prep) emphasized that the future GCC consider the resources that GCC currently possesses. The following resources were identified by GCC's PIUCC in the table below.

**Table 3-2: Resources Available in GCC**

| Category              | Resources of GCC   |
|-----------------------|--|
| 1 Physical Resources  | Packaging industry, food processing industry, footwear industry, garment industry, chemical industry, dyeing industry, diesel plants, printing industry, electronic manufacturing industry, vehicle parts manufacturing industry, Bangladesh Machine Tools Factory Ltd. (BMTF), ordinance factory, Bangladesh Security Printing Press, Bangladesh Small Cottage Industries Corporation (BSCIC), Rajbari (presently used as DC office), |
| 2 Financial Resources | Support from JICA, ADB, UKAID, DFID, WB, GoB, LGRD, CC level revenue, and 40 bans  |
| 3 Human Resources     | Shahid Tazuddin Ahmed, Honorable MP. Advocate Rahmat Ali, Honorable MP. Alhaz Advocate A.K.M. Mozammel Haque, Honorable MP. Zahid Ahsan Russel, Honorable MP. Meher Afroz Chumki, Honorable MP. Simmin Hossain Rimi, Advocate Md. Azmat Ulla Khan,   |

| Category            | Resources of GCC  |
|---------------------|---|
|                     | Former Mayor of Tongi PS, Late Ahsan Ullah Master, Late Moij Uddin Ahmed Groups, Late Hakim Master Pottery Groups, fishermen, weaving groups, goldsmith groups, ironsmiths, carpenters, handicraft (Katan Shari) groups, rickshaw pullers.        |
| 4 Social Resources  | BRAC, Marie Stops, Nobolok, TDH Netherland, Sonirvor Bangladesh, Shakti Foundation, Sharp, Bureau Tangail, Step, Surovi, Surjer Hashi, POPI, TMSS, UCEP, Juvenile Crime Correction Centre, Andho Kollan Somiti, BILS, BASA, Practical Action etc. |
| 5 Natural Resources | National parks, gas fields near the CC area within Gazipur District, the Turag (Kohor Daria), Balu, and Chilal rivers   |

Source: PIUCC of GCC

The GCC is rich in all resources noted above. GCC is a prominent industrial area with a wide variety of products including garments, machines, electronics, etc. The holding tax from these businesses enhances GCC revenue. In addition, an increasing number of donors offer assistance in the area. Various NGOs and institutes could work with the GCC and capitalize on the abundant human and social resources. For example, BRAC (the largest NGO in Bangladesh) collaborates with GCC in solid waste management. A remarkable natural resource is the Bhawal National Park which consists of 5,022 ha of forest with a rich wildlife.

### (3) Industrial Layout

GCC has been an emerging industrial city for the manufacture of garments, machines, chemicals and other products. Additionally, businesses are also important recipients of public services and infrastructure benefits. GCC needs to further discuss how to enhance or control industrial development. As such, PIUCC held initial discussions on this issue – results are summarized in the table below:

**Table 3-3: Industrial Projection of GCC**

| 5 Years from Now  | 25 Years from Now   | 50 Years from Now  |
|---|---|--|
| <ul style="list-style-type: none"> <li>• Garments</li> <li>• Dyeing</li> <li>• Agro-based Industry (Poultry)</li> <li>• Printing and Packaging</li> <li>• Pharmaceuticals</li> <li>• Food Processing</li> <li>• Chemical Industry</li> <li>• TESIS (Telephone Industry)</li> <li>• Vehicle Industry</li> <li>• Home-based Small Industry</li> <li>• Modern Rice Mill</li> </ul> | <ul style="list-style-type: none"> <li>• Electronic Goods</li> <li>• Software (IT) Industry</li> <li>• Garments</li> <li>• Dairy Farm</li> <li>• Car Making Industry</li> <li>• Light Vehicle</li> <li>• Food Processing</li> <li>• Textile</li> <li>• Fertilizer Industry</li> <li>• Footwear Industry</li> <li>• Pharmaceuticals</li> <li>• Garments, Accessories, and other Equipment</li> <li>• Cement Factory</li> <li>• Steel Industry</li> </ul> | <ul style="list-style-type: none"> <li>• Heavy Vehicles Industry</li> <li>• Pre-stressed Concrete Factory</li> <li>• Nuclear Power Plant</li> <li>• Surface Water Treatment Plant</li> </ul> |

### 3.2 Vision of GCC as Development Slogan

A PIUCC meeting discussed the infrastructure development vision for the next 25 years. Discussion of the vision took into account discussions from Section 3.1 Preliminary Analysis and results in the following vision:

**Table 3-4: Vision of GCC**

|                         |  |
|-------------------------|--|
| Vision for IDPCC of GCC | “Make a green, poverty-free and safe, livable city by preparing a master plan and implementing it properly by improving governance and people’s participation without hampering the natural environment” |
|-------------------------|--|

### 3.3 Approaches of Infrastructure Development

Based on the vision, group infrastructure development objectives were prepared. These approaches are to serve as bridges to connect the vision and subproject. Therefore, any subproject shall be consistent with these approaches.

**Table 3-5: Development Objectives for GCC Infrastructure Development**

| CC  | Vision   | Approach  |
|-----|--|---|
| GCC | “Make a green, poverty-free and safe, livable city by preparing a master plan and implementing it properly by improving governance and people’s participation without hampering the natural environment” | <ul style="list-style-type: none"> <li>• Master/Sector Plan development and implementation</li> <li>• Total solid waste management with participation and PPP</li> <li>• Healthy environment for nature and humans</li> <li>• Infrastructure that supports industry and basic human needs</li> <li>• Smooth multimodal traffic flow</li> <li>• Enhancement of governance and public service management</li> </ul> |

### 3.4 Priority for the Infrastructure Sub-Sectors and Their Issues

The PIUCC discussed and agreed upon the priorities for the infrastructure sub-sector as shown in the table below. The GCC is located at the north side of the Dhaka City Corporation and spans a mostly flat area of 329.29 km<sup>2</sup>.<sup>5</sup> Industrial development in the area is facility by convenient access to Dhaka and the international airport, as well as the availability of land and an appropriate workforce.

**Table 3-6: Infrastructure Sub-sector Priorities and Issues**

| Topics | Infrastructure Issues   |
|--------|---|
| 1      | <p>Water Supply</p> <p><u>Overall</u></p> <ul style="list-style-type: none"> <li>• WASA does not provide service within the GCC area. <u>Former Tongi PS Area</u></li> <li>• In the GCC, no adequate water supply network functions in the area. To ensure people have clean drinking water, additional production tube wells and distribution pipe lines should be built.</li> </ul> <p><u>Former Gazipur PS Area</u></p> <ul style="list-style-type: none"> <li>• In the former Gazipur PS area, the water supply system covers the core area, about 40% of the PS territory. In fringes areas, hand tube wells are used to obtain the water instead of a piped water supply system.</li> <li>• Since the water table has fallen, the depth of production tube wells should be at least 400 feet deep. It is recommended that 32 tube wells and 10 overhead tanks be added to improve the water supply capacity.</li> <li>• Since underground water supplies are limited, the GCC needs surface water treatment plant and rainwater harvesting facilities.</li> </ul> |

<sup>5</sup> This city corporation is new compared to the two PSs (i.e., Gazipur PS & Tongi PS) and six other unions (i.e., Kashimpur, Konabari, Bashon, Kowltia, Gasa and Pubail).

| Topics           | Infrastructure Issues  |
|------------------|--|
| 2 Solid waste    | <p><u>Former Tongi PS Area</u></p> <ul style="list-style-type: none"> <li>• In the GCC, a large quantity of solid waste is produced every day. However, there is a lack of dumping sites, equipment as well as garbage trucks. For proper solid waste management, a dumping ground is needed and additional vehicles and equipment should be procured.</li> </ul> <p><u>Former Gazipur PS Area</u></p> <ul style="list-style-type: none"> <li>• The CC area's own solid waste management is vital. At present, only 40% of the total area is covered. Though it is a newly formed CC and its area is large, generation of garbage is relatively high due to the industrial belt and the accompanying dense population.</li> <li>• The area has the following issues: <ul style="list-style-type: none"> <li>✓ No garbage dumping sites.</li> <li>✓ Insufficient number of garbage trucks.</li> <li>✓ Inadequate labor for garbage.</li> </ul> </li> <li>• The Tongi area needs waste transfer stations, waste dumping grounds, landfill sites, compost plants, roadside dustbins, a solid waste recycling plant, a medical waste disposal system, an electronic waste disposal system and a biogas plant.</li> </ul>   |
| 3 Drainage       | <p><u>Former Tongi PS Area</u></p> <ul style="list-style-type: none"> <li>• The Tongi area has a drainage master plan, but several areas still suffer from flooding. To discharge water through a proper drainage system and to minimize flooding, new drains should be constructed.</li> </ul> <p><u>Former Gazipur PS Area</u></p> <ul style="list-style-type: none"> <li>• The Gazipur PS area has a drainage network plan, which should be extended to cover suburban area to develop a consistent drainage system throughout the GCC. For example, the Bason (a Previous Union Parishad) area is seriously impacted by heavy rainfall and poor drainage. Roads as well as residential buildings/houses are flooded and remain inundated for days.</li> <li>• The GCC needs a comprehensive/inclusive drainage network plan. Major natural drainage systems include the Chali, Turak, and Cadda Khal rivers.</li> <li>• Drains can be divided into three categories: primary, secondary and tertiary drains.</li> <li>• On the other hand, on basis of the nature of construction, it may be divided into three categories: RCC drain, masonry drain, and earthen drain.</li> <li>• Presently, considering the outfall &amp; natural flow, GCC constructed the existing drain &amp; proposed in the list to implementing the comprehensive five year plan.</li> </ul> |
| 5 Sanitation     | <p><u>Former Tongi PS Area</u></p> <ul style="list-style-type: none"> <li>• In the GCC, sanitation is unsatisfactory. Slaughter houses, public toilets, wash stations, common septic tanks, etc. need to be established so that people can enjoy hygienic living conditions.</li> </ul>  |
| 6 Transportation | <p><u>Former Tongi PS Area</u></p> <ul style="list-style-type: none"> <li>• In the former Tongi PS area, there is a large number of roads needing repair. Moreover, some new roads and bridge/culvert should be constructed soon to facilitate people and vehicle movement.</li> </ul> <p><u>Former Gazipur PS Area</u></p> <ul style="list-style-type: none"> <li>• Existing roads can be categorized into five types: <ul style="list-style-type: none"> <li>✓ Primary Road: 50 km</li> <li>✓ Secondary Road: 28 km</li> <li>✓ Tertiary Road: about 50 km</li> <li>✓ Goli Road: 100 km</li> </ul> </li> </ul>  |

| Topics | Infrastructure Issues   |
|--------|---|
|        | <ul style="list-style-type: none"> <li>✓ Pedestrian Sidewalks: 200 km</li> <li>• Road types and construction methods are based on traffic volume and type, including rigid or flexible pavement, Cement Concrete road, semi-pucca<sup>6</sup> road (Herring Bone Bond road-HBB road and Brick Flat Soling-BFS road), and earthen road.</li> </ul> <p><u>Suburban Area</u></p> <ul style="list-style-type: none"> <li>• The GCC includes six former Union Parishads, which are now suburban areas of the urban cores (previous Tongi PS and Gazipur PS). The roads have been developed in a haphazard manner for decades due to the lack of a planning authority for the Union Parishads.</li> <li>• Since suburban areas are now under the control of the GCC, which is responsible for planning, the GCC should prepare a Master Plan covering future land use, as well as road, drainage, water supply, and street light systems so facilitate consistent and inclusive urban development.</li> </ul> |
| 7      | <p>Municipal Facilities</p> <p><u>Former Tongi PS Area</u></p> <ul style="list-style-type: none"> <li>• The GCC lacks municipal facilities. Various types of municipal facilities are needed including community centers, office buildings, street lights, landscaping, recreational facilities, and various types of vehicles. Activities such as slum improvement and developing a social safety net are need. Thus, the preparation of a master plan is extremely important for the GCC.</li> </ul> <p><u>Former Gazipur PS Area</u></p> <ul style="list-style-type: none"> <li>• The GCC needs various types of buildings including an administrative building, ward offices, a bus terminal, a truck terminal, vehicular parking, a kitchen market, supermarkets, community centers, training centers for garment workers, picnic corners, a medical college, university, model school, as well as GCC employee housing.</li> </ul>  |

<sup>6</sup> Semi-pucca road contains Herring Bone Bond road-HBB road and Brick Flat Soling-BFS road.

**Table 3-7: GCC Infrastructure Development Goals**

| <b>Sector</b>           | <b>Issues</b>   | <b>Output in 5 Years</b>   | <b>Numerical Indicators</b>  | <b>Output in 25 Years</b>   | <b>Numerical Indicators</b>                                | <b>Output in 50 Years</b>                                       | <b>Numerical Indicators</b>                     |
|-------------------------|---|--|--|---|--|---|---|
| Master Plan Development | <ul style="list-style-type: none"> <li>• GCC has no authority to prepare the master plan.</li> </ul>  | The master plan will be available in the GCC   | The GCC will implement activities according to the master plan               | Master plan update  | -----  | -----   | -----   |
| Transportation          | <ul style="list-style-type: none"> <li>• Congestion and slow speeds</li> <li>• Motorized and non-motorized vehicles share the same lanes</li> <li>• Inadequate overpasses</li> <li>• Inadequate rail service</li> <li>• Crooked roads</li> <li>• Unskilled drivers</li> </ul> | <ul style="list-style-type: none"> <li>• Traffic jams will be reduced, Traffic lanes will be separated.</li> <li>• Pedestrians will use footpath and public transport use will increase</li> </ul> | 50% of traffic jam will be reduced and 40% of pedestrians will use footpaths | More grade separated facilities (underpasses and overpasses) and elevated expressways | 12%–15% of the area will be allocated for roads            | The area allocated for roadways will increase                   | 15%–20% of the area will be allocated for roads |
| Power supply            | <ul style="list-style-type: none"> <li>• Lower crop yields, increased chaos and crime, impacted health services and education</li> <li>• Supply is available for 18–20 hours per day</li> </ul>   | Better power supply  | Power supply will be available for 23–24 hours each day                      | Sufficient quality power supply   | Power supply will be available 24 hours throughout the GCC | -----   | -----   |
| Water Supply            | <ul style="list-style-type: none"> <li>• Lower water pressure and only 12 hours of supply</li> <li>• Groundwater levels falling</li> <li>• Water contains iron</li> <li>• 80% of the area is not connected</li> </ul>   | Better water supply connection   | 40% of the area will be covered  | Better coverage and connection  | 100% of the area will be provided with pure drinking water | Pure drinking water will be supplied throughout the entire area | 100% of the area will be covered                |
| Street Lights           | <ul style="list-style-type: none"> <li>• Security problem for pedestrians</li> <li>• Frequent road accidents</li> <li>• Reduced level of law and order etc.</li> <li>• Only 25% of the area is covered</li> </ul>   | Increased safety and reduced accidents   | 80% of the area will be covered  | Pedestrian safety will be improved  | 100% of the area will be covered                           | -----   | -----   |



| <b>Sector</b>          | <b>Issues</b>  | <b>Output in 5 Years</b>             | <b>Numerical Indicators</b>                   | <b>Output in 25 Years</b>               | <b>Numerical Indicators</b>  | <b>Output in 50 Years</b>          | <b>Numerical Indicators</b>                                   |
|------------------------|--|--------------------------------------|---|---|--|------------------------------------|---|
| Solid Waste Management | <ul style="list-style-type: none"> <li>• Shortage of dumping area</li> <li>• No recycling program</li> <li>• Shortage of garbage trucks</li> <li>• 75% of the area has no collection</li> </ul>          | Better coverage                      | 80% of the area will have collection coverage | Enhanced coverage                       | 100% of the area will have collection coverage; 80% will have recycle coverage | GCC will remain clean              | 100% of the area will have collection and management services |
| Rainwater and Drainage | <ul style="list-style-type: none"> <li>• No drainage in new areas</li> <li>• Shortage of drain cleaning equipment</li> <li>• Flooding in Gacha, Konabari and bhasan area for one day per year</li> </ul> | Residents will be free from flooding | 50% of households will be free from flooding  | Additional improvements                 | 70% of households will be free from flooding                                   | Flooding will be eliminated        | 100% of households will be free from flooding                 |
| Sewage                 | <ul style="list-style-type: none"> <li>• No sewage lines</li> </ul>  | -----                                | -----   | Sewer line construction will be started | -----  | People will enjoy these facilities | 25% of the area will be covered                               |

## Chapter 4 Preparation of Inclusive Subproject List

### 4.1 Analysis of Existing Infrastructure by Category

The GCC is located 60 km north of Dhaka, functioning as a bedroom community and suburb of the capital. The GCC area has quadrupled in size from 50 km<sup>2</sup> to 200 km<sup>2</sup> after the establishment of the GCC in January 2013. One significant and obvious issue is the development of infrastructure between the former municipality and the extended areas. GCC proposes to develop most of the infrastructure such as roads, drainage systems, water supply systems, electric facilities, health facilities and sanitation facilities to fill the gap. An overview of current GCC infrastructure conditions is presented in Table 4-1. Conventional infrastructure subproject used to be rehabilitation and minor development. However, the new mayor has strategic ideas on how to improve the city traffic and develop industries.

**Table 4-1: Analysis of Existing Infrastructure**

| No. | Sub-sector             | Analysis   |
|-----|------------------------|--|
| 1   | Transport              | <p>The GCC maintains about 696 km of paved roads, 174 km of unpaved roads, and 33 culverts. The GCC faces heavy congestion on its unplanned road network. Road, culvert, and bridge width is too narrow, with recently developed roads upazilla road having a 3.0m width. Since land along these roads is not built up, widening is not difficult.</p> <p>Roadside tree planting and sidewalks are important issues. Some roads have been improved with footpaths through UGIIP. A project, the “Urban Partnerships for Poverty Reduction”, also contributed to the construction of footpaths. Although the influx of heavy vehicles in the city area is not as serious as that in Dhaka, the cluster of rickshaws and CNG vehicles generate congestion at the rail crossing. Locals have requested a flyover to mitigate traffic jams.</p> <p>To meet the increasing demand for transportation and to minimize congestion, the GCC needs to widen roads and culverts. Furthermore, traffic management systems are necessary including signals, signs, road dividers, median islands, and road markings.</p> |
| 2   | Drain                  | <p>The GCC has about 480.0 km of drain including 112.0 km of earthen drains and 269.0 km of permanent structured drains.<sup>7</sup> Earthen drains are mainly tertiary drains that connect households to secondary drains or ditches. The 86.5 km of secondary drains are connected with 48 km of primary drains or 28 km of canals (=khal). The extent of the secondary drains is insufficient for the GCC, primarily due to lack of budget and the absence of a master plan (meaning that tertiary drains are connected to ditches in an unplanned manner). The development of secondary drains is especially important as they connect unplanned tertiary drains to primary drains and canals. In order to ensure integrated drainage development, GCC needs a drainage master plan.</p>   |
| 3   | Solid Waste Management | <p>At present, 150 tons of solid waste is produced daily in the GCC area, with March-June being the peak season. Most solid waste is produced by households and collected daily by paid community workers, who carry the waste to the dustbins in rickshaw vans. A portion of the solid waste is directly deposited into the dustbins by the households. Solid waste is then conveyed to the sanitary landfill by garbage trucks owned by the CC. Approximately 70% of solid waste is disposed of in this manner.</p> <p>Similarly, 2-3 daily tons of medical waste is disposed of in this manner. Some 20 garbage trucks, 50 rickshaw vans and 610 workers are involved in</p>  |

<sup>7</sup> Reinforcement Cement Concrete (R.C.C.) or Brick / Cement Concrete (C.C.) block work

| No. | Sub-sector                            | Analysis  |
|-----|---------------------------------------|---|
|     |                                       | <p>the process. There is no system for solid waste recycle. The landfill area is insufficient and remaining capacity dwindles each day. Drains and canals are cleaned with traditional tools, with waste removed by garbage trucks.</p> <p>Solid waste management will improve by 90% within five years if the following proposed infrastructure is provided. To compensate for the shortage of collection vehicles, community-based waste collection by people on cargo bicycles has been initiated. Approximately 40 tons of daily wastes are carried to the dumping site, which will not reach capacity for another 10 years at current waste generation rates. Odor and water pollution issues have been identified as problems around the site.</p>  |
| 4   | Water Supply System                   | <p>Tongi and Gazipur have few water supply facilities through own capacity. At present, collectively there are 55 production tube wells and 119 km of distribution pipeline, providing water to 11,895 of 78,331 households. In addition, there are 1,248 hand tube wells. To provide potable drinking water to city dwellers, existing water supply facilities should be much improved.</p> <p>Some 48 tube wells were constructed through the “Urban Partnerships for Poverty Reduction Project”, which was jointly funded by UNDP, UKAid and GOB. Water supply coverage in the GCC has increase 1% per year from 2009, reaching 35.95% of the entire population. Per capita consumption has risen from 42.55 to 54.10 liters/person/day as of last year. The total area of the GCC is four times larger than the former PS, consequently water demand has been greater than expected. In particular, deep wells have been tapped and the water table is falling due to overuse of groundwater.</p> |
| 5   | Sanitation (including Public Toilets) | <p>The GCC has many factories; many factory workers live in slum areas within the city. At present, 96 community latrines and 30 public toilets serve these residents. To achieve an environmentally-friendly and clean city, the GCC requires additional public toilet, twin pit latrines, slaughter houses, and waste transfer stations for sludge disposal. In the GCC, there are 5,308 sanitary latrines and 10 public toilets, some of which were constructed by UGIIP. No sewage network has been developed; both wastewater and rainwater flow directly into the same drainage system, which dumps directly into the river. Installation of wastewater treatment facilities may be a solution to mitigate water pollution.</p>   |
| 6   | Municipal Facilities                  | <p>The GCC has one bus terminal, 23 kitchen markets, 18 poura markets and two amusement parks, but lacks a truck terminal. To reduce traffic congestion, enhance movements within the city, and improve the city life, municipal facilities need significant improvement. At present, some 9,000 electric lights provide street lighting. Roads should be light and made safer to facilitate rapid industrial growth and accommodate an increasing number of garments factories and workers who travel at night.</p>  |

## 4.2 Nominated Project Ideas

GCC engineers, planners and Councilors developed their prospective projects by assessing gaps and identifying future needs. The GCC PIUCC met to discuss and approve the projects ideas. These project ideas are presented below (note that the infrastructure classification was provided by LGED).

**(1) Transport****Table 4-2: Summary of Existing and Proposed Infrastructure (Transport)**

| No. | Component          | Project Type                    | Unit | Existing | Combined GCC      |          | Tentative<br>Cost for<br>Proposed<br>Subproject<br>(Crore) |
|-----|--------------------|---------------------------------|------|----------|-------------------|----------|--|
|     |                    |                                 |      |          | Proposed Quantity |          |  |
|     |                    |                                 |      |          | New               | Improved |  |
| 1   | Road               | Primary Road (100 ft to 150 ft) | km   | 50.00    |                   | 0.00     | 0.00   |
|     |                    | Second Road (60 ft to 100 ft)   | km   | 27.68    |                   | 27.68    | 41.32  |
|     |                    | Tertiary Road (20 ft to 60 ft)  | km   | 257.00   |                   | 104.15   | 128.11   |
|     |                    | Goli Road (12 ft to 20 ft)      | km   | 361.29   | 174.38            | 86.95    | 215.85   |
|     |                    | Pedestrian Paths (6 ft to 8 ft) | km   | 0.00     | 0.00              | 0.00     | 0.00   |
|     |                    | Total Road Length               | km   | 695.97   | 176.30            | 218.78   |  |
| 2   | Bridge / Culvert   | Bridge                          | #    | 19       | 5                 | 0        | 18.30  |
|     |                    | Pedestrian Overpass             | #    | 5        | 9                 | 0        | 27.00  |
|     |                    | Flyover                         | #    | 0        | 1                 | 0        | 70.00  |
|     |                    | Underpass                       | #    | 0        | 0                 | 0        | 0.00   |
|     |                    | Culvert                         | #    | 33       | 1                 | 0        | 1.50   |
| 3   | Traffic Management | Traffic Signal / Signs          | #    | 0        | 0                 | 0        | 0.00   |
|     |                    | Divider / Island                | km   | 0.00     | 0.00              | 0.00     | 0.00   |
|     |                    | Road Marking                    | km   | 0.00     | 0.00              | 0.00     | 0.00   |
| 4   | River Boat Landing | River Boat Landing              | #    | 0        | 0                 | 0        | 0.00   |
|     |                    | Total Sector Cost               |      |          |                   |          | 502.08   |

**(2) Drainage****Table 4-3: Summary of Existing and Proposed Infrastructure (Drainage)**

| No. | Project Type                        | Unit | Existing | Combined GCC      |          | Tentative<br>Cost for<br>Proposed<br>Subproject<br>(Crore) |
|-----|-------------------------------------|------|----------|-------------------|----------|--|
|     |                                     |      |          | Proposed Quantity |          |  |
|     |                                     |      |          | New               | Improved |  |
| 1   | Khal /Canal/Outfall Drain           | km   | 28.00    | 0.00              | 4.00     | 5.00   |
| 2   | Primary Drainage                    | km   | 48.00    | 53.70             | 0.00     | 120.55   |
| 3   | Secondary Drainage                  | km   | 86.50    | 58.35             | 0.00     | 151.95   |
| 4   | Tertiary Drainage                   | km   | 106.20   | 0.00              | 0.00     | 0.00   |
| 5   | Cleaning Blockage                   | km   | 0.00     | 0.00              | 25.00    | 6.00   |
| 6   | Re-sectioned Outfall (Earth)        | km   | 0.00     | 0.00              | 0.00     | 0.00   |
|     | Total Drainage Length & Sector Cost | km   | 268.70   | 112.05            | 4.00     | 283.50   |

**(3) Solid Waste Management (SWM)****Table 4-4: Summary of Existing and Proposed Infrastructure (SWM)**

| No.               | Project Type                   | Unit | Combined GCC |                   |          | Tentative Cost for Proposed Subproject (Crore) |
|-------------------|--------------------------------|------|--------------|-------------------|----------|--|
|                   |                                |      | Existing     | Proposed Quantity |          |  |
|                   |                                |      |              | New               | Improved |  |
| 1                 | Transfer Station               | #    | 4            | 20                | 0        | 3.00   |
| 2                 | Dumping Ground/ Landfill Site  | #    | 1            | 3                 | 0        | 70.00  |
| 3                 | Compost Plant                  | #    | 0            | 3                 | 0        | 3.00   |
| 4                 | Roadside Movable Dustbin       | #    | 70           | 250               | 0        | 1.25   |
| 5                 | Solid Waste Recycle Plant (3R) | #    | 0            | 3                 | 0        | 0.60   |
| 6                 | Clean Development Facility     | #    | 0            | 3                 | 0        | 0.50   |
| 7                 | Medical Waste Disposal         | Ton  | 0            | 3                 | 0        | 0.10   |
| 8                 | Electronic Waste Disposal      | Ton  | 0            | 0                 | 0        | 1.50   |
| 9                 | Biogas Plant                   | #    | 0            | 0                 | 0        | 1.50   |
| 10                | Equipment / Vehicles           | LS   | 0            | 41                | 0        | 48.55  |
| Total Sector Cost |                                |      |              |                   |          | 130.00   |

**(4) Water Supply System (WSS)****Table 4-5: Summary of Existing and Proposed Infrastructure (WSS)**

| No.               | Project Type                       | Unit | Combined GCC |                   |          | Tentative Cost for Proposed Subproject (Crore) |
|-------------------|------------------------------------|------|--------------|-------------------|----------|--|
|                   |                                    |      | Existing     | Proposed Quantity |          |  |
|                   |                                    |      |              | New               | Improved |  |
| 1                 | Production Well (PTW)              | #    | 40           | 38                | 0        | 30.00  |
| 2                 | Surface Water Treatment Plant      | #    | 0            | 2                 | 0        | 6.00   |
| 3                 | Overhead Tank (OHT)                | #    | 3            | 4                 | 0        | 8.00   |
| 4                 | Distribution Network               | km   | 130          | 130               | 0        | 26.50  |
| 5                 | Hand Tube Well                     | #    | 600          | 1,000             | 0        | 4.00   |
| 6                 | Public Stand Pipe (Street Hydrant) | #    | 5            | 20                | 0        | 1.50   |
| 7                 | Metering (Domestic and Bulk Meter) | #    | 0            | 5,000             | 0        | 7.50   |
| 8                 | Iron and Arsenic Removal Plants    | #    | 0            | 0                 | 0        | 0.00   |
| 9                 | Rainwater Harvesting               | #    | 0            | 0                 | 0        | 1.00   |
| 10                | Equipment / Vehicle                | LS   | 0            | 0                 | 0        | 1.75   |
| Total Sector Cost |                                    |      |              |                   |          | 86.25  |

**(5) Sanitation****Table 4-6: Summary of Existing and Proposed Infrastructure (Sanitation)**

| No.               | Project Type                         | Unit | Combined GCC |                   |          | Tentative Cost for Proposed Subproject (Crore) |
|-------------------|--------------------------------------|------|--------------|-------------------|----------|--|
|                   |                                      |      | Existing     | Proposed Quantity |          |  |
|                   |                                      |      |              | New               | Improved |  |
| 1                 | Slaughter House                      | #    | 2            | 14                | 0        | 4.40   |
| 2                 | Twin Pit Latrine                     | #    | 50           | 600               | 0        | 1.50   |
| 3                 | Single Pit Latrine                   | #    | 150          | 900               | 0        | 2.00   |
| 4                 | Public Toilets                       | #    | 9            | 15                | 0        | 3.75   |
| 5                 | Wash Station                         | #    | 0            | 9                 | 0        | 1.80   |
| 6                 | Transfer Station for Sludge Disposal | #    | 0            | 9                 | 0        | 3.00   |
| 7                 | Common Septic Tank                   | #    | 0            | 1,500             | 0        | 40.00  |
| 8                 | Wastewater Treatment Plant (Drain)   | #    | 0            | 3                 | 0        | 1.55   |
| Total Sector Cost |                                      |      |              |                   |          | 58.00  |

**(6) Municipal Facilities, Streetlight & Beautification****Table 4-7: Summary of Existing and Proposed Infrastructure  
(Municipal Facilities)**

| No. | Component                                | Project Type                                     | Unit | Combined GCC |                             |   | Tentative Cost for Proposed Subproject (Crore) |
|-----|--|--|------|--------------|-----------------------------|---|--|
|     |  |  |      | Existing     | Proposed Quantity           |   |  |
|     |  |  |      | New          | Improved                    |   |  |
| 1   | Bus Terminal                             | Terminal building, platform & internal drainage  | #    | 1            | 1                           | 0 | 20.00  |
| 2   | Truck terminal                           | Terminal building, platform & internal drainage  | #    | 0            | 1                           | 0 | 15.00  |
| 3   | Vehicle Parking                          | For motor vehicles, CNG vehicles and rickshaws   | #    | 0            | 3                           | 0 | 10.00  |
| 4   | Market                                   | Kitchen market / supermarket                     | #    | 1 / 8        | 2 / 5                       | 0 | 25.00  |
| 5   | City Corporation Office Building         | CC main office, community center and ward office | #    | 1            | 5                           | 0 | 85.00  |
| 6   | Auditorium, Public Hall, Cultural Center | Auditorium, public hall, cultural center         | #    | 1            | 4                           | 0 | 20.00  |
| 7   | Open Space                               | Park, Playground                                 | #    | 0            | 10                          | 0 | 50.00  |
| 8   | Street Light (Lights & Poles)            | Lights, poles and solar panels                   | #    | 9,000        | 3,000 poles & 52,800 lights | 0 | 104.50   |
| 9   | Landscaping and Beautification           | Planting, water body improvements and monuments  | #    | 0            | 0                           | 0 | 20.00  |
| 10  | Graveyard                                | Gates, walls, lighting and drainage              | #    | 2            | 3                           | 0 | 20.00  |
| 11  | Sports Facility                          | Gym and stadium                                  | #    | 0            | 5                           | 0 | 70.00  |
| 12  | Upgrading Informal Settlements           | Rearrangement of informal shops                  | #    | 0            | 3                           | 0 | 3.00   |
|     |  | Equipment / vehicles                             | LS   | 0            | 0                           | 0 | 14.50  |
|     |  | Slum development                                 | LS   | 0            | 0                           | 0 | 77.50  |
|     |  | Tree planting                                    | LS   | 0            | 0                           | 0 | 10.00  |
|     |  | Total Sector Cost                                |      |              |                             |   | 544.50   |
|     |  | Total CC Cost                                    |      |              |                             |   | 1,604.33                                       |

**4.3 Inclusive List of Infrastructure Development in GCC****4.3.1 Summary of the Infrastructure List**

Table 4-8 summarizes the inclusive infrastructure list of the GCC. The entire list of infrastructure development projects is attached as Annex D-1.

**Table 4-8: Summary of Inclusive Infrastructure Development List of GCC**

| Sector                 | Quantity    | Cost (Crore) | Note  |
|------------------------|-------------|--------------|---|
| Transport              | 422 schemes | 758.75       | <p>The list includes:</p> <ul style="list-style-type: none"> <li>• Various road types throughout the CC area that need rehabilitation and improvement. This includes four secondary roads, nearly a dozen tertiary ones, and numerous Goli roads. Roadside drainage is one proposed road improvement.</li> <li>• One flyover from Shibbari Mour to Rathkhola.</li> <li>• Several overpasses above the National Highway.</li> <li>• New bridges at Shibbari Mour.</li> <li>• Bridge reconstruction at Uddor-Sikolia, Moruka, Laxandia Khal and Badon (including box culverts).</li> </ul>  |
| Drain                  | 44 schemes  | 354.68       | <ul style="list-style-type: none"> <li>• The GCC proposes 44 drainage subprojects. All proposed drainage systems are of reinforced cement concrete (RCC). These include five primary drains, but most of the subprojects are secondary drains.</li> <li>• The majority of proposed drainage works are concentrated in the former Tongi and Gazipur PS. The GCC needs to prepare a drainage master plan that includes these suburban areas.</li> <li>• The subproject list also includes cleaning works and a dump truck purchase to remove sedimented soil and waste from canals and drains (although this may be considered O&amp;M rather than an infrastructure activity). A plan and budget for cleaning should be assumed for the entire drainage system.</li> </ul> |
| Solid Waste Management | 4 schemes   | 166.00       | <p>The GCC proposes four schemes to enhance solid waste management:</p> <ul style="list-style-type: none"> <li>• Cleaning drains clogged with solid waste;</li> <li>• Collecting, disposing, and 3R (reduce, reuse, recycle) of solid wastes (this scheme includes dust bins, transfer stations, disposal sites for ordinary medical and electronic waste as well as compost and biogas plants);</li> <li>• Procuring equipment and vehicles including 70 dump trucks and 12 excavators; and</li> <li>• Acquiring 8,000 m<sup>2</sup> of land for a waste disposal site in the Tongi Zone.</li> </ul>   |
| Water Supply           | 6 schemes   | 87.50        | <p>The GCC proposes a conventional water supply system with 26 deep tube wells, overhead tanks and pipelines. The target areas are the Bashan &amp; Kowltia zones, the Kashimpur &amp; Konabari zones, the Gazipur zones and additional areas in the Tongi Zone.</p>  |
| Sanitation             |             | 153.96       | <p>The GCC proposes to install 600 twin pits latrines, 900 single pit latrines, 1,500 common septic tanks, 100 water points and 15 public toilets in the Gazipur Zone.</p> <p>In the Tongi Zone, 100 water points, 500 sanitary latrines and 10 public toilets are proposed.</p>  |

| <b>Sector</b>        | <b>Quantity</b> | <b>Cost (Crore)</b> | <b>Note</b>   |
|----------------------|-----------------|---------------------|---|
| Municipal Facilities | 18 schemes      | 1,069.39            | GCC will develop the Sector Plan for the entire area. Thus, for infrastructure development, consistency between the Sector Plan and the projects is important. Proposed physical facilities include a bus terminal, a truck terminal, vehicle parking, city markets, administration offices, a medical college, housing for GCC officers, social welfare facilities, slum development, 25,000 street lights, a public hall, parks, and sports facilities. |

Source: GCC, ICGP

#### **4.3.2 Information of Infrastructure Projects of Other Agencies**

The inclusive sub-project list of GCC should include infrastructure plans sponsored by other agencies at the national level. Since Gazipur is one of the most important CCs in the Dhaka capital area, there can be a significant number of infrastructure developments planned by National Government agencies. However, these agencies that work in the territory of the GCC carry out their projects independently with insufficient coordination with GCC.

Municipal governments and agencies of the National Government had no framework or process to share information on their work and plans. Thus, such projects were excluded from the Inclusive List of Infrastructure. However, GCC, as an inclusive City Government, is still responsible for ensuring necessary coordination for all public services in its territory.

In future, the consultant team of the ICGP should support City Development Coordination Committee (CDCC) as an item of ICGIAP. In this regular committee meeting, GCC and central government agencies should share the information and opinions so that GCC's inclusive sub-project list can include all the relevant project plans by the central government agencies. Records of the CDCC meetings shall be reported to the PD of ICGP so that effectiveness of CDCC can be secured.



## **Chapter 5 Planning, Implementation, Evaluation and O&M Arrangement**

### **5.1 Planning of IDPCC of GCC**

#### **(1) Conventional Infrastructure Planning and Mater Plan**

Conventional infrastructure planning was agglomeration of “piece meal” subproject ideas. Each councilor get requests from his/her constituencies and convey these to the CC authority. These subprojects hardly include big projects that change infrastructure trends of the City. Annual project list includes hundreds of subprojects and the smallest subprojects are sometimes a few hundred thousand BTK. Infrastructures planning for new City Corporations should have deferent approach.

#### **(2) Participation of Stakeholders**

Participation of stakeholders is important for development plan elaboration. IDPCC shall be prepared and revised with the following method of participation.

##### **1) PIUCC**

Draft IDPCC preparation and revising shall be undertake by PIUCC, which is a task force assigned by Mayor and include CEO as a chairperson, some councilors, head engineer, planner and relevant officers.

##### **2) Stakeholders Committee Meeting**

Stakeholders Committee Meeting (SCM) is as advisory committee set up for ICGP to discuss vision, strategy, subprojects and their basic designs. Members include representatives of various sectors in the civil society, councilors representing WLCC, head of standing committees and PIUCC officials. Draft IDPCC should be explained to Stakeholder Committee Meeting to improve and finalize draft. With this procedure the IDPCC get consensus with wider segments of the society and facilitate smoother implementation and resource mobilization.

City councilors shall get information of proposed projects that are relevant with his/her ward, and discuss in Ward Level Coordinating Committee-WLCC. This consensus making will secure a swift progress of the project with no objection group.

##### **3) Community Groups**

Participation of community groups has not been established for the elaboration of Infrastructure Development Plan. However, GCC is aware of the approach of Previous UGIIP-2 Project of ADB. A three layer structure of TLCC-WLCC-CBO was employed in UGIIP-2 for a community participation system to the PS administration. JICA ICGP is conducting pilot project in GCC to examine an effective community participation system. Participation of community groups would be refined when the lessons learned is available from this pilot project.

#### **(3) Approval and Consensus**

##### **1) Approval of City Meeting**

Since the IDPCC shows important direction of the city development, it should be approved by the city meeting, so that every councilor and executive officers appropriately recognize the plan. This approval is necessary to avoid any potential conflict and to facilitate strategic budgeting for implementation of IDPCC.

## 2) Consensus of Relevant Organizations

Once IDPCC is authorized, it shall be explained to relevant outside organizations such as LGD and other National Government agencies, Donors, and managers of on-going projects in the city.

## **5.2 Implementation of IDPCC**

For an effective implementation of IDPCC and Operation and Maintenance of the infrastructure, GCC needs various improvements,

- Institutional development and assignment of appropriate officers
- Work demarcation between what is undertaken by GCC and what is contracted-out
- Human resource development
- Funding
- Equipment and staffing for better Operation and Maintenance

This issue will be further discussed in line with ICGIAP preparation.

## **5.3 Evaluation of IDPCC Subprojects**

### **5.3.1 Evaluation of Subprojects**

Evaluation of subprojects is essential to examine the efficiency, effectiveness, sustainability. Lessons learned from evaluation shall be applied to the on-going and coming subprojects.

National government and donors often include evaluation procedure in their programs. For example, JICA loan program has a evaluation scheme based on the Qualitative Indicators and Quantitative Indicators.

Table 5-1 shows sample of indicators to evaluate subproject after two year of their construction completion.

**Table 5-1: Suggested Indicators for Subproject Evaluation**

| Sub-sector                | Qualitative Indicator  | Quantitative Indicator   |   |
|---------------------------|--|--|---|
|                           |  | Operational Indicator  | Effectiveness Indicator   |
| 1 Road                    | Paved road becomes more comfortable for pedestrian.          | Traffic volume increases (Vehicles/day), before/ after   | Moving hour of Vehicles decreases (Hours/ Year) , before /after<br>Trip cost (fuel) decreases (BDT/ year), after  |
| 2 Bridge                  | People of both sides of the river are more communal.         | Traffic volume increases (Vehicles/day), before/ after   | Moving hour of Vehicles decreases (Hours/ Year) , before /after<br>Trip cost (fuel) decreases (BDT/ year), after  |
| 3 Drainage                | Less water logging secure comfortable commuting              | Number of places of bigger drains that overflow decreases (Place/ year), Before/ after   | The biggest water logging area of the year decreases (km <sup>2</sup> ), before /after  |
| 4 Solid Waste Management. | Fewer people litter on roads and vacant lands                | Volume of waste disposal increases (Ton/day)   | Waste collection household ratio increases (% of households), before /after   |
| 5 Water Supply            | Water fetching works decrease                                | Volume of supplied water increases (Ton/day), Before/ after<br>Increasing number of water contracts (Numbers of Contract), Before/ after | Water supply coverage increases (% of households), before/ after  |
| 6 Public Building         | People's relation within the Community becomes more intimate | Number of visitors increases (Person/year), Before/ after  | Facility Placement Ratio increases. (% of wards), before/ after<br>For example, 50% of wards have community center.   |
| 7 Street light            | Going out at night becomes safer                             | Number of working street lights increases (Person/year), Before/ after   | Street lights equipped ratio among municipal roads that are more than 20 feet in width. (% of municipal road), before/ after X%                                   |
| 8 Park, Stadium, etc.     | Citizen' leisure and amusement time is of higher quality     | Number of visitors increases (Person/year), Before/ after  | Number or floor of public facilities per person increased. (Number of Facility/100,000person), before/ after (m <sup>2</sup> of park area /person), before/ after |

### **5.3.2 Evaluation of IDPCC**

IDPCC itself should be evaluated and revised every three years so that it facilitates better progress of infrastructure development of GCC. Sufficiency of the IDPCC should be measured by following three aspects:

#### 1) Relevance

Relevance is to evaluate whether IDPCC and its contents are all relevant to overall goal of the GCC and are consistent with other plans or not. After three years a new master plan will be available, consistency between IDPCC and the coming master plan should be carefully examined. IDPCC should play a role of “action plan” for the prospective master plan.

#### 2) Effectiveness

In three years, some of the project would have been implemented. Then, whether these implementations contribute to the achievement of visions and development goals should be evaluated. If the effectiveness is not enough, IDPCC should be reorganized so that each subproject contributes to the vision and goals. Every statement of IDPCC, from vision to each subproject, could be revised if necessary.

#### 3) Sustainability

The sustainability is to evaluate whether the operation and maintenance of the built infrastructure and public services can be maintained by GCC itself or not.

- Water supply, market places are the examples of paid-public services. Tariff system should be well charged and collected. Otherwise, this kind of public services cannot be sustainable.
- GCC does not get fees directly for the services of road & drain but rates for solid waste management, street light and water are imposed by GCC merging with holding tax (Property tax). However, GCC is still responsible for the operation and maintenance of these infrastructures. The more the construction, the more the cost of maintenance. GCC should make mid-long term financial plan for operation and maintenance.
- For the time being, initial cost of major infrastructure development would be covered by outside funds such as National Government, JICA, ADB, WB, etc. However, this condition cannot be expected for many years. GCC should make steady effort to increase the ratio of cost covered by GCC itself.

### **5.4 Operation and Maintenance Arrangement**

Part 2 of this Volume 5 shows the relevant parts of the same section. They will be written and inserted to here when this part becomes an independent Infrastructure Development Plan of GCC.

## **Chapter 6 Financial Planning of GCC**

### **6.1 Overview**

A good infrastructure development plan without budgetary support does not work. IDPCC should connect budgeting and funding efforts of the CC.

The first and most important effort GCC should make is to increase its own revenue. GCC mayor and executive officers are well aware of this and are carrying out sincere practices to increase holding tax. According to the relevant regulation, real estate properties should be re-evaluated every three years.

Second possibility is getting funds from National Government and donors. Each program has its own concept, approach and specific funding targets. GCC may appeal its demand of further infrastructure to every possible funding organization with IDPCC as authorized subproject list.

Thirdly, not only subproject implementation but also planning, operation and maintenance need funding. GCC shall allocate appropriate budget for these tasks. In the fiscal year of 2013/14, the GCC Master Plan, which is under preparation, will be completed. The priority projects of the anticipated Master Plan will be added to the IDPCC, which demands GCC's increasing efforts of fund raising.

### **6.2 Infrastructure Budget**

This section shows the current status of the infrastructure budget.

#### **6.2.1 City Corporation Revenue**

Table 6-1 shows GCC revenues and expenditures over the past three years. Those estimates include the revenues/expenditures for the former Gazipur PS and Tongi PS, but exclude those from the six Union Parishads (four for Gazipur and two for Tongi PS) which were transferred into the GCC, as the budget system for those Union Parishads was not integrated until 2012–13.

**Table 6-1: GCC Revenues and Expenditures over the Past Three Years**

Unit: BDT

| Particulars                               | Year               |       |                    |       |                    |       |
|---|--------------------|-------|--------------------|-------|--------------------|-------|
|   | 2012-13            |       | 2011-2012          |       | 2010-2011          |       |
| <b>Revenue:</b>                           |                    |       |                    |       |                    |       |
| <b>Revenue A/C (CC's own source)</b>      |                    |       |                    |       |                    |       |
| Holding tax                               | 71615216           | ② 30% | 74,864,698         | ② 29% | 70,692,145         | ② 17% |
| Others taxes                              | 25,607,850         |       | 26,600,000         |       | 48,547,550         |       |
| Fees, charges and others                  | 140,292,550        |       | 153,270,000        |       | 287,742,450        |       |
| Sub-total                                 | 237,515,616        | ① 39% | 254,734,698        | ① 52% | 406,982,145        | ① 64% |
| <b>Development A/C</b>                    |                    |       |                    |       |                    |       |
| CC own fund (surplus)                     | 20,817,120         |       | 14,010,820         |       | 11,900,020         |       |
| Govt. grant (ADP)                         | 30,800,000         |       | 23,000,000         |       | 47,000,000         |       |
| Project/Doners                            | 320,437,602        | ③ 53% | 196,045,808        | ③ 40% | 173,540,453        | ③ 27% |
| Sub-total                                 | 372,054,722        |       | 233,056,628        |       | 232,440,473        |       |
| <b>Total Revenue</b>                      | <b>609,570,338</b> |       | <b>487,791,326</b> |       | <b>639,422,618</b> |       |
| <b>Expenditure :</b>                      |                    |       |                    |       |                    |       |
| Particulars                               | Year               |       |                    |       |                    |       |
|   | 2012-13            |       | 2011-2012          |       | 2010-2011          |       |
| Revenue A/C (Recurrent expenditure)       | 226,743,435        |       | 277,004,288        |       | 398,186,090        |       |
| Development A/C (Development expenditure) | 350,703,402        | ④ 61% | 289,505,308        | ④ 51% | 332,747,853        | ④ 46% |
| <b>Total Expenditure</b>                  | <b>577,446,837</b> |       | <b>566,509,596</b> |       | <b>730,933,943</b> |       |

Source: GCC

Note: These estimates include the revenues/expenditures for the former Gazipur PS and Tongi PS, but exclude those from the six Union Parisads (four for Gazipur and two for Tongi PS).

## 6.2.2 External Funding Sources for GCC Infrastructure Development

Table 6-2 presents the external funding sources for infrastructure project in the GCC.

**Table 6-2: Examples of External Funding Sources for Infrastructure Project**

| Resources   | Relation with GCC  |
|---|--|
| 1 Annual Development Program (ADP)  | ADP is a subsidy system from LGD. There are three components in this scheme:<br>Lump Sum Grant: GCC received 6 crore BDT for FY2011–12 and 8 crore BDT for FY2012–13.<br>Special Grant: GCC received 2 crore BDT for FY2011–12 and 5 crore BDT for FY2012–13.<br>Development Project Proposal (DPP): GCC has not received this |
| 2 Municipality Governance Support Program (MGSP) supported by WB          | GCC is included in this program and is qualified for application.  |
| City Regional Development Program (CRDP) supported by ADB                 | GCC is not included in this program.   |
| Bangladesh Municipality Development Fund (BMDF) supported by WB           | GCC is not included in this program.   |
| Urban Partnership for Poverty Reduction (UPPR) supported by UNDP and DFID | GCC received 1 crore BDT for FY2011–12 and 2 crore BDT for FY2012–13.  |
| Program for CDM Projects supported by the Danish Government               | GCC is not included in this program.   |
| JICA Loan Program   | A JICA Project (Inclusive City Governance Project) is preparing investing project for various infrastructure sectors. GCC is coordinating with the JICA Expert Team and LGED for project selection and basic design.   |

Source: GCC

## Chapter 7 Amendment of Rolling Plan

### 7.1 Concept of Rolling Plan

There are many development plan made by public sector. These plans usually have target year such as 5, 10, 20 year. Within that time frame, subprojects listed in the plan should be implemented. Therefore, the older the plan the fewer the remaining subprojects for implementation.

On the other hand, a rolling plan is has no specific target year and subproject list is always revised and new. This is a series of repeating seamless activities of “Plan”, “Do”, “See”, and “Re-plan”

### 7.2 Institution and Authority of Revise

Overall responsibility belongs to the Mayor of CC. However, necessary arrangement and action will be taken based on the “Institutional Structure for IDPCC Management” shown as Figure 1-1. Other than this, activating infrastructure Standing Committee is one idea. This committee can be established in CC and members shall be city councilors and Mayor. They shall handle infrastructure issues in the CC and lead the relevant discussion in City Meeting and input appropriate information for fruitful discussion of Civil Society Coordination Committee Meeting.

### 7.3 Revising Subproject List of IDPCC

The idea of subprojects are coming from various sources and stakeholders such as master plan, CC engineers, CC councilors, National Government Agencies, civil society etc. These subproject ideas are examined by PIUCC, Stakeholders Committee Meeting, and CC executives and listed in the IDPCC.

Then some projects are funded by various agencies and implemented. Once funding is secured, the subproject is not “plan” any more, it is now reality. Therefore such subproject shall be removed from the list and new project will be considered.

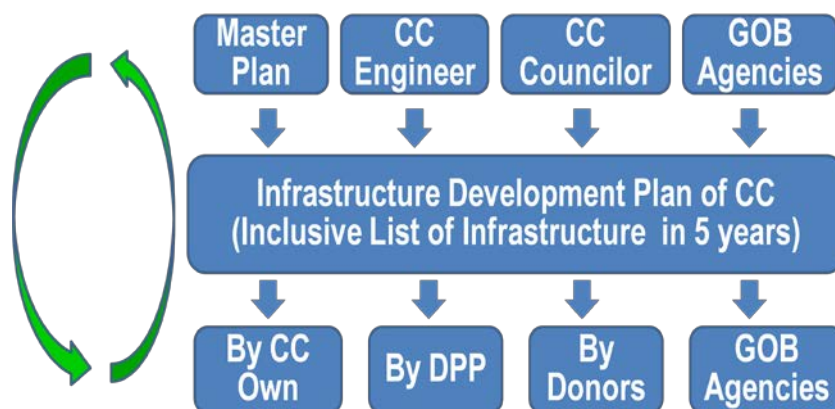


Figure 7-1: Subproject Ideas and Funding

Suppose there are four subprojects in the IDPCC. Then three of them A, B, C have been funded by ADB, DPP (National Government Fund) and JICA. Subprojects A, B and C will be replaced by D, E and F, while Subproject D remains because it could not get funding from any resources.

Small replacement or re-planning shall be conducted every year. Thus the IDPCC is changing every year and always new. This is why this plan is called “rolling Plan”.

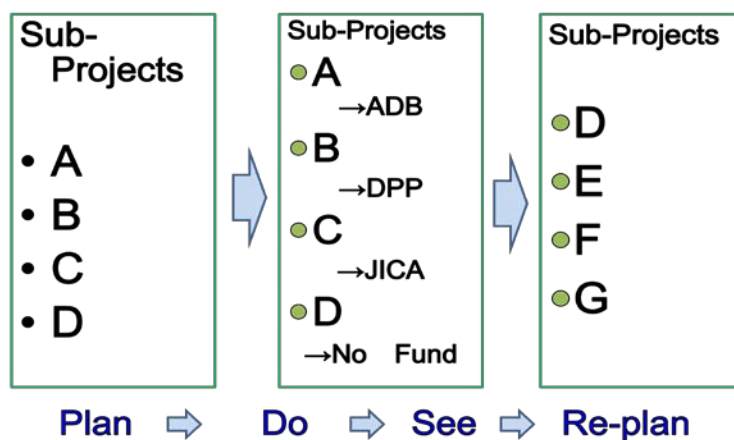


Figure 7-2: Replacement of Subprojects in Inclusive List

## 7.4 Renewal of IDPCC in Three Years

### 7.4.1 Reason and Concept of Renewal

Major change or amendment of the entire IDPCC shall be carried out every three year. Because all the major items mentioned in the IDPCC will have been changed and out of date in three years. These items may include current situation, vision, strategies, short and medium term goal of infrastructure development.

IDPCC, even after the renewal, should keep the following logic and characteristic;

- Vision is consistent with other CC policies and reflect peoples’ wish
- Short and medium term goal of infrastructure development is consistent with vision
- If subprojects are achieved, the short term goal is automatically fulfilled without additional interventions.
- IDPCC should include all the project plan regardless expecting fund resource,
- IDPCC should be always new with recent information and list of subproject of any fund recourse
- IDPCC should be very simple and easy to understand so that every citizen, especially, CSCC members can grasp the whole picture and make fruitful disputation.

### 7.4.2 Institutional Procedure of IDPCC Renewal

After three years, PIUCC should review the entire IDPCC and draft amended version. This draft shall be discussed by Civil Society Coordination Committee meeting and finally endorsed by City Meeting. Institutional stricture of renewal is the same with first elaboration of IDPCC.



## **PART 2**

# **Governance and Financial Reform Program**



## Chapter 8 Governance and Financial Reform Program

This chapter explains the distinct aspects of ARP of GCC. Administrative Reform Plan is described in Annex H-1. This ARP is formulated based on Function Performance Analysis and 5 Year Action Plan attached in Annex H-2.

### 8.1 Administrative Reform Plan (ARP) of GCC

#### 8.1.1 Prioritized Infrastructure Issues and ARP

In the GCC Administrative Reform Plan (ARP), several infrastructure topics have not been discussed in PIU such as beautification and the construction of a bus terminal. Table 8-1 presents the long and short term strategies for topics discussed in PIU. Overall, topics were similar to those in other CCs, with roads and footpaths being the top priority. Street lighting, however, was given a higher priority in the GCC compared to in other CCs.

**Table 8-1: Prioritized Infrastructure Topics and Strategies**

| Infrastructure Topic   | Long Term Strategy   | Short Term Strategy   |
|------------------------|--|---|
| Town Planning          | -  | -   |
| Road and Footpath      | 15% of the area will have road coverage                          | Reduce congestion by 50%<br>Increase use of footpaths by 40% use Footpath |
| Water Supply           | Expand coverage to 100%  | Expand coverage to 60%  |
| Street Lighting        | Expand coverage to 100%  | Expand coverage to 50%  |
| Solid Waste Management | Expand solid waste collection to 100%<br>Expand recycling to 80% | Increase waste collection to 45%  |
| Drainage               | Reduce flooding by 70%   | Reduce flooding by 50%  |

#### 8.1.2 Major Issues in Prioritized Sectors

##### (1) Town Planning

NCC and GCC are under the jurisdiction of RAJUK. Thus, the functions related to urban planning are largely implemented by RAJUK. However, GCC officers note that the implementation capacity of RAJUK is not robust enough to cover GCC as well. Thus, officers propose to strengthen town planning functions in GCC.

According to the officers' proposal, the number of officials, including engineers, town planners and assistant town planners should increase. The department should be equipped with vehicles and personal computers with software for database management and mapping. Training for GIS, town planning and surveying are recommended to further build capacity.

##### (2) Road and Footpath

GCC staff lack capacity to design roadways and footpaths. Thus, it is recommended to assign specialists to receive technical training through the loan project. Specialists may include design engineers, structural engineers, draftsmen and surveyors. Increasing the number of officials, expanding the technical training, conducting Kaizen activities for implementation, and installing construction equipment are proposed to improve O&M capacities.

Technical training and coordination with traffic police are proposed for activities related to traffic control and road/footpath use.

### **(3) Water Supply**

Water supply services are provided by GCC and DPHE. The DPHE functions in GCC like it does in other CCs, establishing water sources such as deep and shallow tube wells. Though both agencies will operate as service providers for now, the GCC expects to take over all water supply functions in the future.

In order to extend water supply coverage, it is necessary for them to increase the skilled manpower including executive engineers, assistants and sub-assistant engineers. Technical training should be provided to construct water supply systems, maintain these systems and distribute water. GCC also plans to establish a laboratory for water quality control.

### **(4) Street Lights**

Extending the coverage of street lights will require pickup trucks, motorcycles, as well as safety equipment, etc. Furthermore, more staff should be added including assistant engineers, electricians and electric assistants.

### **(5) Solid Waste Management**

The GCC plans to recruit a number of officials for waste collection and management. They proposed to increase the number of chief health officers, health officers, inspectors, supervisors and cleaners. Staff should be given technical training relevant to their respective job responsibilities.

NGOs are already involved in the collection and management of clinical waste, but GCC suggests improving their capacity in terms of technical skills and knowledge, manpower and equipment. The GCC also proposed to involve the private sector in waste management (i.e., through a Public Private Partnership or PPP).

### **(6) Drainage**

Additional manpower and equipment is required to build capacity. Additional surveyors and draftsmen are needed to plan and implement a drainage system. For construction work, additional executive engineers, assistants and sub-assistant engineers will be needed. Different size rollers are recommended as well.

#### **8.1.3 Citizen Involvement**

There was no proposal for citizen involvement in public service provision in GCC. Delegation of some responsibilities was proposed by the ICGP Team as described in the ARP. Collection and transport of waste from households to the primary collection point as well as monitoring of public facilities conditions are the principal roles delegated to local communities or associations.

## **8.2 Financial Planning of GCC**

In this section, GCC's current financial situation is examined, followed by recommendations on future financial planning.

### **8.2.1 Financial Analysis of Gazipur CC**

#### **(1) GCC Revenues and Expenditures**

The table below presents GCC revenues and expenditures over the past three years. These estimates include the revenues/expenditures for the former Gazipur PS and Tongi PS, but exclude those from the six Union Parisads (four for Gazipur and two for Tongi PS) which were

transferred into the GCC, as the budget system for those Union Parishads was not integrated until 2012–13.

**Table 8-2: GCC Revenues and Expenditures for the Past Three Years**

Unit: BDT

| Particulars                               | Year               |       |                    |       |                    |       |
|---|--------------------|-------|--------------------|-------|--------------------|-------|
|   | 2012-13            |       | 2011-2012          |       | 2010-2011          |       |
| <b>Revenue:</b>                           |                    |       |                    |       |                    |       |
| <b>Revenue A/C (CC's own source)</b>      |                    |       |                    |       |                    |       |
| Holding tax                               | 71615216           | ② 30% | 74,864,698         | ② 29% | 70,692,145         | ② 17% |
| Others taxes                              | 25,607,850         |       | 26,600,000         |       | 48,547,550         |       |
| Fees, charges and others                  | 140,292,550        |       | 153,270,000        |       | 287,742,450        |       |
| Sub-total                                 | 237,515,616        | ① 39% | 254,734,698        | ① 52% | 406,982,145        | ① 64% |
| <b>Development A/C</b>                    |                    |       |                    |       |                    |       |
| CC own fund (surplus)                     | 20,817,120         |       | 14,010,820         |       | 11,900,020         |       |
| Govt. grant (ADP)                         | 30,800,000         |       | 23,000,000         |       | 47,000,000         |       |
| Project/Doners                            | 320,437,602        | ③ 53% | 196,045,808        | ③ 40% | 173,540,453        | ③ 27% |
| Sub-total                                 | 372,054,722        |       | 233,056,628        |       | 232,440,473        |       |
| <b>Total Revenue</b>                      | <b>609,570,338</b> |       | <b>487,791,326</b> |       | <b>639,422,618</b> |       |
| <b>Expenditure :</b>                      |                    |       |                    |       |                    |       |
| Particulars                               | Year               |       |                    |       |                    |       |
|   | 2012-13            |       | 2011-2012          |       | 2010-2011          |       |
| Revenue A/C (Recurrent expenditure)       | 226,743,435        |       | 277,004,288        |       | 398,186,090        |       |
| Development A/C (Development expenditure) | 350,703,402        | ④ 61% | 289,505,308        | ④ 51% | 332,747,853        | ④ 46% |
| <b>Total Expenditure</b>                  | <b>577,446,837</b> |       | <b>566,509,596</b> |       | <b>730,933,943</b> |       |

Source: GCC

Note: These estimates include the revenues/expenditures for the former Gazipur PS and Tongi PS, but exclude those from the six Union Parishads (four for Gazipur and two for Tongi PS).

In order to assess GCC's public finance situation, the following ratios are analyzed:

- ① Ratio of CC's *own source* to Total Revenues (budget) of CC
- ② Ratio of *holding tax* to CC's own source (revenue account)
- ③ Ratio of *special allotment for specific projects* (foreign aid, the central government) to Total Revenues (budget) of CC
- ④ Ratio of *development expenditure* to Total Expenditure of CC

- ① Ratio of CC's *own source* to Total Revenues (budget) of CC  
The ratio of GCC's own sources to the total budget has gradually decreased gradually and now accounts for about 29% in 2012–13. When looking at CC's own sources, the actual amount has decreased over the past three years.
- ② Ratio of *holding tax* to CC's own source (revenue account)  
The share of holding tax of GCC's own sources has gradually increased over the last three years, now accounting for 30% in 2012–13. Although total holding taxes have remained steady over the last three years, the ratio of holding tax to the GCC's own sources has increased due to the decline of other revenue sources.
- ③ Ratio of *special allotment for specific projects* (foreign aid, the central government) to Total Revenue (budget) of CC  
Unlike other CCs, the special allotment for specific projects does not make up the largest share of the development budget over the last three years (ranging from 17%-39%). GCC

has allotted a portion of its own funds (a surplus of funds from the previous year) to the development budget.

④ Ratio of *development expenditure* to Total Expenditure of CC

Development expenditure was the primary component of total expenditure over the three year period. However, the development expenditure was not fully expended as planned for all three years.

## 8.2.2 Tax

### (1) Holding Tax in GCC

#### 1) Tax Rate

The tax assessment for holding tax is practiced according to the model tax schedule 2003 and CC tax rules 1986. Holding tax consists of four items; (i) tax on buildings and lands, (ii) lighting rate, (iii) conservancy rate and (iv) water rate<sup>8</sup>. Tax rates within the CC are determined by the CC themselves. These rates are within a ceiling stipulated in the tax law that considers the service levels.

GCC has its own holding tax rate as shown in Table 8-3 (The rates were applied at the former Gazipur PS). Different tax rates are applied according to the proportion of services GCC provides. This tax policy seems to be appropriate, but it has not been adopted by other CCs.

**Table 8-3: GCC Holding Tax Rate**

| Items                    | Residential Rate<br>(Core Areas) | Residential Rate<br>(Other Areas) | Rural Rate | Maximum<br>Ceiling |
|--------------------------|----------------------------------|-----------------------------------|------------|--------------------|
| Tax on building and land | 7%                               | 7%                                | 7%         | 7%                 |
| Conservancy rate         | 7%                               | 7%                                | 0%         | 7%                 |
| Lighting rate            | 3%                               | 0%                                | 3%         | 3%                 |
| Water rate               | 0%                               | 0%                                | 0%         | 10%                |

Source: ICGP Team

Note: The figures indicate the rate adopted in the former Gazipur PS only  
“Conservancy rate” is for solid waste management.

#### 2) Number of Holding

An interim tax assessment was conducted in 2011–12.<sup>9</sup> The number of registered holdings in GCC is 104,687 – 95% of which are residential users, while 5% are industrial users, respectively. It is acknowledged among GCC officials that the tax assessment was improperly conducted by both the former Gazipur PS and Tongi PS, *understating the number of holdings by between 4-6 times*.

**Table 8-4: Number of Holdings in GCC**

| Former Gazipur PS | Former Tongi PS | Total in 2011-12 |
|-------------------|-----------------|------------------|
| 81,137            | 23,550          | 104,687          |

Source: GCC

Note: The figures indicates the number of holdings in the former Gazipur PS and Tongi PS

<sup>8</sup> Naming of each tax items is stipulated in tax regulations (the model tax schedule 2003 and CC tax rules 1986).

<sup>9</sup> General tax assessment for 2012-13 is under process.

### 3) Efficiency of Tax Collection

The table below presents the GCC tax collection efficiency over the past three years. Those figures do not include data from the former Tongi PS because the records of the PS was not merged until 2012–13. GCC collection efficiency has increased to 90% or over during the last three years.

**Table 8-5: GCC Tax Collection Efficiency**

| Year      | Demand (BDT) | Collection (BDT) | Collection Efficiency (%) |
|-----------|--------------|------------------|---------------------------|
| 2011–2012 | 89,469,222   | 80,334,199       | 89.78                     |
| 2010–2011 | 72,115,413   | 67,134,065       | 93.09                     |
| 2009–2010 | 72,586,093   | 67,517,779       | 93.01                     |

Source: Based on responses to an ICGP Team questionnaire.

Note: The figures indicate the data for the former Gazipur PS only.

According to tax regulations, the valuation of holdings may be estimated based on: (i) rental fees; or (ii) construction costs. GCC applies taxes based on the following methods.

**Table 8-6: GCC Asset Valuation Methods**

| Category               | Basis of Tax Assessment  |
|------------------------|--------------------------|
| Household              | Construction cost basis. |
| Commercial, Government |                          |
| Rental house, Building | Rental fee basis         |

Source: GCC

Note: The table indicates the information for the former Gazipur PS only

### 4) Issues of Tax Assessment and Collection

#### Number of Holdings

As stated above, while the percentage of collection efficiency has increased to over 80% as required by the UGIIP in 2009-10, this does not indicate that tax collection in GCC is on track. The number of holdings has been largely underestimated due to several factors such as inadequate capacity of the Revenue Section, and a non-systematic assessment process that fails to capture the real demand. If tax assessment was properly conducted, the number of holdings would increase by between 4-6 times. There are a number of industrial facilities in GCC that have great potential to increase holding tax revenues.

#### Petition against Valuation and Assessment

Those unsatisfied with the assessment can apply for a review according to tax regulations. In the GCC, the Mayor deals with complaints, thus a certain percentage of tax demand has been deducted.

#### Capacity of Revenue Section

Currently, GCCs tax assessment section consists of 14 staff, while the tax collection section has 28 staff. Altogether, these sections cover 57 wards. The tax collection section issues and sends bills, and completes bank payment statements made by taxpayers. The size and quality of the section staff is inadequate.

Although assessment should be based on the taxpayer identification number, holdings have not been systematically recorded due to an inadequate identification system and linkages with the

construction registration by RAJUK. The demarcation of the jurisdiction is not appropriate between the related agencies.

Although a tax register/record is the basis of all relevant transactions, the record is in a written, not digitized format. As mentioned above, while a computerized tax record system was introduced in the GCC, the system is only used to issue tax bills. Data is entered manually from the registry to the computerized tax record system.

## (2) Other Taxes in GCC

According to tax regulations, the CC can impose taxes on several sources besides holdings including on: (i) the transfer of immovable property; (ii) professions and businesses; (iii) cinemas and entertainment; (iv) vehicles other than motor vehicles or boats; (v) tolls; and (vi) advertisements.

The table below presents the current tax and revenue items for GCC in 2012-13. Those figures do not include data from the former Tongi PS as the accounting system of the two PS had not merged until 2012-13. While holding tax is the most important tax revenue in the GCC, revenues from other taxes are also significant. Remarkably, taxes on the transfer of immovable property has contributed to taxes, since values of properties have increased and the purchase/sale prices have boomed over the past few years due to the establishment of new CCs.

To date, taxes on almost all potential sources have already been imposed, thus increases in tax revenues is not expected. To maximize tax revenue, the GCC is currently contemplating imposing taxes on other sources such as private clinics, lawyers, etc.

**Table 8-7: GCC Tax Revenues for 2012–13**

| Unit: BDT                                    |               |
|--|---------------|
| Income Sector                                | 2012–13       |
| 1. Holding Tax (on building and land)        | 338,573,473   |
| 2. Holding Tax                               |               |
| a. Conservancy rate                          | 145,102,918   |
| b. Lightning rate                            | 193,470,555   |
| c. Water rate                                |               |
| Total Holding tax (tax and rate) (1+2)       | 677,146,946   |
| 3. Other Taxes                               |               |
| a. Tax on the transfer of immovable property | 510,687,468   |
| b. Municipalities' tax surcharge             |               |
| c. Profession, business and calling          | 42,889,020    |
| d. Building construction and re construction | 58,443,680    |
| e. Advertisement tax                         | 9,626,596     |
| f. Cinema tax                                |               |
| g. Vehicles (excluding automotive and boat)  | 3,395,066     |
| Sub-Total Tax                                | 625,041,830   |
| Grand Total                                  | 1,302,188,776 |

Source: Based on responses to ICGP Team questionnaire.

Note: The figures indicate the data of the former Gazipur PS only.



### 8.2.3 Fees and Charges

#### (1) Charges for Water Supply in GCC

##### 1) Tariff

Water users are charged based on the diameter of pipe and the type of user (i.e., residential, commuter or industrial). A measured rate system has not been introduced in the GCC. Tariffs are relatively higher compared to other CCs, but overall are still low. Tariffs which are applied to majority of the users are; residential (0.5 inch): 140 BDT/month and commercial (0.75 inch): 350 BDT/month. Most residential users are charged at 140 BDT/month (0.50 inch diameter), while most commercial users are charged at 350 BDT/month (0.75 inch diameter). It is noted that the water tariff presented in the table below was the one adopted in the former Gazipur PS.

**Table 8-8: Water Tariff in GCC**

| Type Consumer | Diameter (inch) | Rate (BDT/Month) |
|---------------|-----------------|------------------|
| Residential   | 0.5             | 140              |
| Residential   | 0.75            | 200              |
| Residential   | 1               | 500              |
| Residential   | 1.5             | 1,000            |
| Residential   | 2               | 2,000            |
| Commercial    | 0.5             | 280              |
| Commercial    | 0.75            | 350              |
| Commercial    | 1               | 700              |
| Commercial    | 1.5             | 1,500            |
| Commercial    | 2               | 4,000            |

Source: ICGP Team

Note: The figures indicate the data of the former Gazipur PS only.

##### 2) Revenues from Tariff and Expenditure for O&M

Up to now, water supply facilities such as overhead tanks were by the central government, GCC does not have to bear the initial costs although it is responsible for O&M costs. In principle, such costs are covered by user tariffs.

The table below presents water supply-related tariff revenues and O&M costs over the past three years. As noted, these figures exclude those from the former Tongi PS as the accounting system of the two PS was not merged until 2012–13.

The main revenue source is from residential users (making up 96.64% of revenues in 2011–12), largely due to the fact that most commercial/industrial entities maintain their own water supply facilities. As shown, revenues outpaced costs until 2010–11, when revenues fell below costs in 2011–12 due to an extension of an emergency pipeline.

**Table 8-9: GCC Water Supply Revenues and Expenditures**

|                | Unit: BDT |           |            |
|----------------|-----------|-----------|------------|
|                | 2009–2010 | 2010–2011 | 2011–2012  |
| Tariff Revenue | 6,780,220 | 7,471,594 | 8,731,387  |
| O&M Cost       | 5,316,199 | 6,578,869 | 10,363,429 |
| Net Balance    | 1,464,021 | 892,725   | -1,632,042 |

Source: ICGP Team

Note: The figures indicate the data of the former Gazipur PS only.

### 3) Relevant Department

The Water Supply Section manages water supply activities including tariff collection. The section has a permanent staff of 15, consisting of a superintendent engineer, pipeline inspectors, bill clerks, mechanics, and pump operators. Furthermore, there are five workers that are on a daily basis.

Issuing bills are computerized. Bills are sent to users and payments are made through banks.

### 4) Water Supply Issues

Over the past three years, revenues nearly equalled costs, although at the end of this period the net balance turned negative. The GCC has a water supply coverage of 38.08% in 2012 and is expected to expand facilities in the future. Current O&M costs are not covered by tariff revenues, thus increased O&M costs associated with facility expansion may worsen the financial situation. Current tariff levels should be reconsidered. able to be covered by current tariffs. Therefore, current tariff levels should be reconsidered.

## **(2) Charges for Waste Management**

### 1) Waste-Collection System and Tipping Fee

Two different waste collection systems have been adopted in dense residential areas and in other areas.

- **Dense Residential Areas:** The GCC is responsible for transporting garbage directly from households and commercial facilities to a dumping site on CC owned trucks. No tipping fee is collected.
- **Other Areas:** Collection and conveyance to garbage collection station are carried out by community based organisations (CBOs). After the garbage is taken to the collection station, the GCC can transport the garbage to the dumping site. CBOs collect 30 BDT/HH/month as tipping fees from households to cover the collection/transportation costs. The GCC subsidizes the CBOs with 500 BDT/van/month.

### 2) Revenues from Conservancy Rate (Holding Tax) and O&M Expenditure

The table below shows revenues from conservancy rate and O&M costs related to waste management over the last three years. As shown, the net balance is positive, but this does not reflect the actual state of waste management as current cost levels are low due to several reasons. It is assumed that the volume of waste treated by GCC is much lower than the actual volume produced and costs at the dumping site are low because of preliminary waste treatment (i.e., open dumping).

Waste management revenues come from the conservancy rate of 7%, which is part of the holding tax. Expenditures consist of costs for salaries (including that for one permanent staff and 86 daily workers), equipment, fuel for six vehicles, repair/maintenance, and transportation (van).

**Table 8-10: GCC Waste Management Revenues and Expenditures**

|                  | Unit: BDT  |            |            |
|------------------|------------|------------|------------|
|                  | 2009–2010  | 2010–2011  | 2011–2012  |
| Conservancy Rate | 18,101,498 | 18,892,649 | 21,768,300 |
| O&M Costs        | 5,271,070  | 4,363,775  | 4,899,693  |
| Net Balance      | 12,830,428 | 14,528,874 | 16,868,607 |

Source: Based on responses to ICGP Team questionnaire

Note: The figures indicate the data of the former Gazipur PS only

### 3) Relevant Department

The Conservancy Section plays a role in waste management. There is one permanent staff and 86 daily workers.

### 4) Issues on Waste Management

Although revenues from the conservancy rate are greater than the O&M expenditures, this does not reflect the actual state of waste management. Currently, the volume of waste intake is limited and its treatment is still at a primary level (i.e., open dumping without cover soils). If proper waste management is established, O&M costs would increase. The worsening balance between revenues and costs could be significant, potentially undermining financial sustainability in GCC.

## (3) Other Fees and Charges in GCC (Rents and Profits from Property)

### 1) Current Situations with Rent/Lease Revenues

The table below provides information on revenue from fees/charges and revenues in the GCC for the past three years. GCC has also attempted to diversify its revenue sources. For instance, lease revenues (from buses, market, and bazaars) and security money from the market has contributes to the finances for GCC.

**Table 8-11: GCC Fee Revenues over the Past Three Years**

|  | Unit: BDT  |            |            |
|--|------------|------------|------------|
| Fees                                       | 2012–2013  | 2011–2012  | 2010–2011  |
| a. Contractor licenses                     | 1,963,167  | 792,600    | 518,460    |
| b. Miscellaneous certificates              | 910,036    | 771,300    | 642,000    |
| c. Holdings                                | 1,479,153  | 1,069,233  | 953,913    |
| d. Slaughter of animals                    | 207,520    | 93,100     | 121,470    |
| e. City market rent                        | 5,029,766  | 5,215,441  | 4,300,820  |
| f. Shop handovers                          |            | 33,817,000 |            |
| Subtotal                                   | 9,589,642  | 41,758,674 | 6,536,663  |
| 4. Lease                                   |            |            |            |
| a. Bazaar lease                            | 26,764,625 | 32,018,823 | 29,043,925 |
| b. Temporary haat lease                    |            |            |            |
| c. Public toilet lease                     | 4,570,000  | 4,042,000  | 363,400    |
| d. Bus/truck terminal and load /unload fee | 3,433,000  | 3,474,000  | 2,780,000  |
| e. Ferry port lease                        |            |            |            |
| f. Pond lease                              | 377,000    | 70,000     |            |
| h. Revenues from charges for road damage   |            |            |            |
| Subtotal                                   | 35,144,625 | 39,604,823 | 32,187,325 |
| 5. Others                                  |            |            |            |
| a. Road roller rent                        | 672,481    | 742,852    | 482,152    |
| b. Road digging damage                     | 748,828    | 7,159,891  | 575,732    |

| Fees   | 2012–2013  | 2011–2012  | 2010–2011  |
|--|------------|------------|------------|
| c. Various forms                             | 1,597,577  | 712,615    | 541,460    |
| d. Tender schedule sale                      | 9,393,800  | 5,404,902  | 1,898,600  |
| e. Miscellaneous fines                       | 5,000      | 5,000      | 15,520     |
| g. E.P.I                                     | 476,067    | 659,404    | 340,680    |
| h. Interest from bank deposits               | 591,950    | 86,533     | 54,932     |
| i. Sale/auction of used goods                |            |            |            |
| j. Staff recruitment                         |            |            |            |
| k. V.G.F. transport expenses                 |            |            |            |
| l. Security deposits from markets/apartments |            |            |            |
| n. Library fees                              |            |            |            |
| o. Earning from hawkers market               |            |            |            |
| p. Miscellaneous                             |            |            |            |
| a. Road roller rent                          | 8,207,454  | 1,751,512  | 10,769,751 |
| Subtotal                                     | 21,693,157 | 16,522,709 | 14,678,827 |
| 6. Government funds without development aid  |            |            |            |
| a. Grants against the city tax               | 340,200    | 280,000    | 159,200    |
| b. Grant for staff salary                    | 115,000    | 154,900    | 96,800     |
| Subtotal                                     | 455,200    | 434,900    | 256,000    |
| Subtotal                                     |            |            |            |
| Grand Total                                  | 66,882,624 | 98,321,106 | 53,658,815 |

Source: Based on responses to ICGP Team questionnaire

Note: The figures indicate the data of the former Gazipur PS only.

## 2) Issues in Rent/Lease

Major CC businesses, such as leasing the bus station and market/bazaar, already occurs in GCC, thus there are still opportunities to expand operating businesses for the CC (such as opening a new bus station).

### 8.2.4 Financial Planning of City Corporation

#### (1) Principle

**City corporations including GCC should have financial autonomy.** As a guiding principle, decentralization of government functions has to be accompanied by fiscal devolution as well as capacity building at the local government level to enable them to raise revenue on their own. The extent of autonomy depends on the ability of local bodies to independently raise revenues and allocate resources for expenditure.

GCC, as service provider, has to bear a portion (possibly all) of the initial cost and, at the very least, all the O&M costs related to public services. City corporations, including GCC, are responsible for establishing the socio-economic infrastructure and providing public services. The relevant cost should be covered by CCs' own sources to ensure financial sustainability in not only the CCs, but also for the central government.

**To achieve public service cost recovery in sectors such as water supply and waste management, it is important to introduce a “financially independent accounting system”.** Namely, O&M costs (and part of the initial costs) for water supply should be covered by water rates and tariffs, without other sources or subsidies. For waste management, revenues/expenditures should be independent from other sources. Furthermore, the relevant cost (at least the O&M costs and part of the initial costs) should be covered by the conservancy rate alone.

**Increasing revenues from its own sources is essential for the GCC to achieve a self-sustainable financial system.** GCC should maximize revenues from its own sources through appropriate revenue management. In addition, the share of revenues from the central government and donors should be decreased gradually.

## **(2) Own Sources**

It is essential that GCC increases income from its own sources. The CC's own sources of income are taxes, fees/charges levied by CC, rents/profits accruing from CC's properties, and revenues received through its services.

### **i) Holding Tax**

The holding tax is the most important source of income for CCs as decentralized bodies. To maximize earnings from the holding tax, the RpCC should:

- Reassess the number of holdings in the entire territory of CC
- Re-evaluate all holdings which are already registered

### **ii) Other Sources of Tax**

To maximize earnings from other sources of tax, GCC should:

- Identify new tax sources that CCs can impose (i.e., clinics, lawyers, and the tobacco industry) through the taxation and tax collection standing committee.

### **iii) Earnings from Business Operated by CCs**

GCC should:

- Explore the diversification of businesses operated by CCs to increase earnings through the taxation and tax collection standing committee.

## **(3) Finance from the Central Government and Donors**

As shown in sections above, in principle, the share of finance from the central government and donors should be gradually reduced. In the short- and mid-term, finance from the central government and donors is necessary.

To meet the financial requirements of the GCC infrastructure development plan in GCC, GCC might be required to continue discussions with other donors besides JICA.

In the case of donor projects, GCC's own sources should be allocated to cover a certain part of the initial cost.



## **PART 3**

### **JICA Loan Projects**





## Chapter 9 JICA Loan Projects

### 9.1 Selection of JICA Loan Projects

GCC has selected subprojects to be funded JICA out of the inclusive list. Then ICGP Team selected prioritized JICA subprojects using the method detailed in Section 6.2 of Volume 1 General Edition. The selection results are summarized in this section. Table 9-1 shows the List of JICA Subprojects (JICA Project List) selected from the inclusive list.

**Table 9-1: JICA Project List from GCC**

| No. | Sector               | Subproject Name  | Cost<br>(in Crore<br>BDT)* |
|-----|----------------------|--|----------------------------|
| 1   | Transport,<br>Road   | Construction of a flyover from Shibbari Mour to Rathkhola  |                            |
| 2   | Transport,<br>Road   | Construction of road with drain (1.4 + 7.5) from Nowzour to the Zirani Bazar (along the Chandana-Nobinagar Connector Road) via Islampur Kashimpur Road   | 130.00                     |
| 3   | Transport,<br>Road   | Repair and widening of the BC Road with a RCC drain (up to Shaker pool) from the Konabari Bus Stand to Norshingapur (along the Ashulia Connector Road)   | 2.00                       |
| 4   | Transport,<br>Road   | (a) Road improvements from the Bhawal–Gazipur Rail Station to the Tongi–Pubail Connector Road (to the east of the Tongi Rail Station) via the Joydebpur–Dhirasram–Bonomala Road<br>(b) Improvement of the Bonomala Rail Gate Road to Dhaka–Mymensingh Road<br>(c) Improvement of the Bonomala Sayed Mridha Connector Road to the Pubail Connector Road behind Tongi Thana. | 72.00                      |
| 5   | Transport,<br>Road   | Road improvements from Bilaspur Bot-tola to Salna Bazar (Dhaka–Mymensingh Connector Road).   | 7.60                       |
| 6   | Transport,<br>Road   | Road improvements for the BC Road and RCC drain along Zoybangla Road (from Boro Bari to the Meghdobi bypass via Akkas Market)  | 15.00                      |
| 7   | Transport,<br>Road   | (a) Repair of the BC Road from Shibbari Moor to Joorpukur<br>(b) Repairing & widening of BC road Joorpukur to Titterkul  | 13.00                      |
| 8   | Transport,<br>Road   | Repair and widening of the BC Road from the Mazu Khan Bazar to the Meghdubi Bypass at Pubail   | 7.85                       |
| 9   | Transport,<br>Road   | Road improvements for the BC Road with RCC drains from the Dhaka-Tangail Road (near Polly Biddut) to the Zorun Mour at Kashimpur   | 15.10                      |
| 10  | Drain<br>Improvement | Construction of a RCC drain from the Morkun Tista Gate to the Hadrabad Rail Bridge, Tista Gate Alom House to the railway line, Mirar Para Bachu House to the rail line and the Alaksha Mosque to the graveyard road  | 15.00                      |
| 11  | Transport,<br>Road   | Repair and widening of the BC Road from the Board Bazar (Central Mosque) to Asulia Road via Gacha–Chandara–Satish–Tilargati–Prottasha  | 13.50                      |
| 12  | Transport,<br>Road   | Road improvements by carpeting with RCC drains from Kashimpur Bazar to the Sreepur Bus Stand   | 15.00                      |
| 13  | Transport,<br>Road   | Repair and widening of the BC Road from the Porabari Bazar along the Dhaka–Mymensingh Road to the Salna Bazar along the Dhaka–Mymensingh Road via Jolarpar Bazar–Karkhana Bazar & Jolarpar Bazar–Master Bari Bazar   | 27.50                      |
| 14  | Transport,<br>Road   | Repair and widening of the BC Road from Dhaka–Mymensingh Road of IUT Gate to Jajor Bypass via Kathura–Issor–Moshar tek–Daulatpur Bazar, Hariken factory, Deker Chala Chowrasta   | 20.00                      |

| No. | Sector                             | Subproject Name   | Cost<br>(in Crore<br>BDT)* |
|-----|------------------------------------|---|----------------------------|
| 15  | Transport,<br>Road                 | Construction of the BC Road from the north side of the Baimail Bridge to the Nashar Market Ambag Connector Road via Itkhola–Bagia High School–Joyertek  | 14.00                      |
| 16  | Transport,<br>Road                 | Repair and widening of the Road from Joorpokur Par to Salna Bazar via Pajulia–Gazipur–Chattar Bazar–Shemul Toli Bazar   | 34.00                      |
| 17  | Drain<br>Improvement               | Construction of a RCC drain from Chowrasta to Chilai Khal via Telipara–Bariali  | 6.80                       |
| 18  | Transport,<br>Road                 | Road improvement by Carpeting with RCC drain from Kashimpur Bazar to Sreepur Bus Stand  | 62.60                      |
| 19  | Drain<br>Improvement               | Improvement of drains starting from the Kazi Bari Dhal to the Hospital Bridge via the graveyard–Cha Bagan road culvert and other construction of RCC drains   | 49.50                      |
| 20  | Transport,<br>Road                 | (a) Improvement of the BC Road with a RCC drain from the Dhaka–Pubile Road to Changer Ghat via Morkun–Maruka–Harbaid.<br>(b) Construction of the Maruka Bridge.<br>(c) Construction of the Harbaid Changer Ghat to Somorshing Village Connecting Bridge | 33.70                      |
| 21  | Transport,<br>Road                 | Improvement of the BC Road with RCC drains from Maleker Bari (Dhaka–Mymensingh Highway) to Bashan Sharak via Ojharpara, Haque Market  | 19.50                      |
| 22  | Transport,<br>Road                 | Road improvements from the Dhaka–Mymensing Road at Board Bazar to Joydebpur Choirasta Road at Tin Sorak of BRRRI via Bot Tola–Jajor Bazar–Jogi Tola Road  | 15.50                      |
| 23  | Transport,<br>Road                 | Improvement of the Tongi–Vadam Road with BC work & RCC drains   | 17.50                      |
| 24  | Transport,<br>Road                 | Improvement of the Tongi–Sataish Main Road with BC work (up to Gutia) and RCC drains  | 18.00                      |
| 25  | Drain<br>Improvement               | Construction of the Gazipur RCC drain outfall   | 8.00                       |
| 26  | Transport                          | Improvement of the Vadam Central Mosque Road by BC work and others  | 8.08                       |
| 27  | Transport,<br>Drain<br>Improvement | Reconstruction of Vakral–Gutia Road with a box culvert by HBB work and some other works   | 21.00                      |
| 28  | Transport,<br>Road &<br>Drain      | Improvement of the road from Silmon–Jogibari Tek to Pagar–Gopalpur Connector Road via Gofur Khan Road–Hahif Bapari School–graveyard by BC work and RCC drains   | 10.00                      |
| 29  | Drain<br>Improvement               | Construction of a RCC drain starting from the Barkot Sharani Road through the Bolli Baid to the Mogorkhal   | 25.00                      |
| 30  | Drain<br>Improvement               | Construction of the Morkun Graveyard RCC drains (Pagar Morkun Connecting Khal) and some other drains  | 13.50                      |
| 31  | WSS                                | Installation of production tube wells, pump houses, requisite electrical work and distribution pipeline   | 24.00                      |
| 32  | Municipal<br>Facilities            | Truck terminal (terminal building, platform, and internal drains)   | 15.00                      |

WSS: Water Supply System, Crore: ten million, cost is estimation by the CC

Source: GCC

The cost of each subproject has been estimated by GCC engineers. Costs exclude physical contingency, price escalation, administration cost, etc.

## **9.2 Selection Results**

Based on the method detailed in Section 6.2 of Volume 1 General Edition, the ICGP Team examined the JICA project list shown in Table 9.1.

### **9.2.1 Stage 1: Eligibility Check for JICA Project**

ICGP Team examined the subproject submitted by GCC and then found that it was unnecessary to reorganize and remove subprojects that were inappropriate as JICA ODA projects. Therefore, all subprojects progressed to the Stage 2 analysis.

### **9.2.2 Stage 2: Prioritization**

#### **(1) Evaluation by Criteria**

Based on the criteria for the Stage 1 analysis, the ICGP Team evaluated the subprojects passing the Stage 1 analysis. The original criteria for GC in this stage were as follows.

##### Sector-Level Priority

Referring to GCC discussions in PIUCC, the ICGP Team defined the following sector-level priority for GCC:

- High: Waste Management, Water Supply, Sanitation, and Drainage
- Middle: Transportation, Street Lighting
- Low: Others

##### Area-Level Priority

As GCC was only recently established, it is difficult to prioritize any specific area at this stage. Therefore, there is no specific area-level priority.

**Table 9-2: Priority Evaluation Results**

| No | Sector            | Project Name  | Estima-<br>ted<br>Benefi-<br>ciary | Basic<br>Human<br>Needs | Opera-<br>tional<br>Year | Social<br>Consi-<br>dera-<br>tions | Environ-<br>mental<br>Consi-<br>dera-<br>tions | Social<br>and<br>Environ-<br>mental<br>Positive<br>Impact | Sector<br>Priority | Area<br>Priority | CC<br>Functio-<br>nal<br>Enhance-<br>ment | O&M<br>Sustain-<br>ability | Econo-<br>mic<br>Effect | Total<br>Score | Cost  |
|----|-------------------|---|------------------------------------|-------------------------|--------------------------|------------------------------------|--|---|--------------------|------------------|---|----------------------------|-------------------------|----------------|-------|
|    |                   |   | 0-10                               | 0-10                    | 0-10                     | 0-10                               | 0-10   | 0-10  | 0-10               | 0-10             | 0-10                                      | 0-10                       | 0-10                    | 0-10           | 0-110 |
| 1  | Transport         | Construction of fly over from Shibbari mour to Rathkhola  | 5                                  | 5                       | 10                       | 5                                  | 0  | 5   | 10                 | 0                | 5   | 10                         | 10                      | 65             | 70.0  |
| 2  | Transport, Road   | Construction of Road With Drain(1.4+7.5) from Nowzour to Zirani bazar (Chandana–Nobinagar connecting road) via Islampur Kashimpur Road  | 10                                 | 5                       | 10                       | 5                                  | 0  | 5   | 10                 | 0                | 0   | 10                         | 10                      | 65             | 130.0 |
| 3  | Transport, Road   | Repairing & widening of BC Road with RCC Drain (up to shaker pool) from Konabari bus stand to Norshingapur (Ashulia connecting road)  | 10                                 | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 5                       | 65             | 24.0  |
| 5  | Transport, Road   | Improvement of Road from Bilaspur Bot-tola to Salna Bazar (Dhaka- Mymensingh connecting road).  | 10                                 | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 5                       | 65             | 7.6   |
| 12 | Transport, Road   | Improvement of road by Carpeting with RCC drain from Kashimpur bazar to sreepur bus stand.  | 5                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 10                      | 65             | 15.0  |
| 10 | Drain Improvement | Construction of RCC Drain from Morkun Tista gate to Hadrabad Rail Bridge, Tista gate Alom House to Rail line, Mirar para Bachu house to rail line & Alaksha Mosque to grave yard road | 0                                  | 10                      | 10                       | 5                                  | 5  | 10  | 5                  | 0                | 0   | 10                         | 5                       | 60             | 15.0  |
| 30 | Drain Improvement | Construction of Morkun Graveyard RCC drain work (Pagar Morkun Connecting Khal) and other works  | 0                                  | 10                      | 10                       | 5                                  | 5  | 10  | 5                  | 0                | 0   | 10                         | 5                       | 60             | 13.5  |
| 25 | Drain             | Construction of Gazipur RCC drain (out fall)  | 0                                  | 10                      | 10                       | 5                                  | 5  | 10  | 5                  | 0                | 0   | 10                         | 5                       | 60             | 8.0   |
| 17 | Drain             | Construction of RCC Drain from chowrasta to Chilai Khal via Telipara–Bariali  | 5                                  | 10                      | 10                       | 5                                  | 5  | 10  | 5                  | 0                | 0   | 10                         | 0                       | 60             | 6.8   |

| No | Sector                             | Project Name  | Estima-<br>ted<br>Benefi-<br>ciary | Basic<br>Human<br>Needs | Opera-<br>tional<br>Year | Social<br>Consi-<br>dera-<br>tions | Environ-<br>mental<br>Consi-<br>dera-<br>tions | Social<br>and<br>Environ-<br>mental<br>Positive<br>Impact | Sector<br>Priority | Area<br>Priority | CC<br>Functio-<br>nal<br>Enhance-<br>ment | O&M<br>Sustain-<br>ability | Econo-<br>mic<br>Effect | Total<br>Score | Cost  |
|----|------------------------------------|---|------------------------------------|-------------------------|--------------------------|------------------------------------|--|---|--------------------|------------------|---|----------------------------|-------------------------|----------------|-------|
|    |                                    |   | 0-10                               | 0-10                    | 0-10                     | 0-10                               | 0-10   | 0-10  | 0-10               | 0-10             | 0-10                                      | 0-10                       | 0-10                    | 0-10           | 0-110 |
| 19 | Drain<br>Improvement               | Improvement of drain starting from Kazi bari Dhal to Hospital bridge via grave yard-Cha Bagan road culvert and other Construction of RCC drains   | 5                                  | 10                      | 10                       | 5                                  | 5  | 10  | 5                  | 0                | 0   | 10                         | 0                       | 60             | 49.5  |
| 11 | Transport,<br>Road                 | Repairing & widening BC road from Board Bazar (Central mosque) to Asulia road via Gacha-Chandara-Satish-Tilargati-Protasha  | 5                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 5                       | 60             | 13.5  |
| 31 | WSS                                | Installation of Production Tube wells, Pumps house, Necessary electrical work & distribution pipe line  | 5                                  | 10                      | 10                       | 5                                  | 0  | 5   | 10                 | 0                | 5   | 10                         | 0                       | 60             | 24.0  |
| 4  | Transport,<br>Road                 | (a) Improvement of Road from Bhawal-Gazipur rail station to Tongi-Pubail connecting road (East side of Tongi Rail Station) via Joydebpur-Dhirasram-Bonomala Road<br>(b) Improvement of Bonomala Rail gate road to Dhaka-Mymensingh road<br>(c) Bonomala Sayed Mridha connecting road to Pubail Connecting road behind Tongi Thana | 5                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 5                       | 60             | 72.0  |
| 26 | Transport                          | Improvement of Vadam Central mosque road by BC work and other roads   | 0                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 5                       | 55             | 8.1   |
| 27 | Transport,<br>Drain<br>Improvement | Re-Construction of Vakral-Gutia Road with box culvert by HBB work and other drains  | 0                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 5                       | 55             | 21.0  |

| No | Sector                                    | Project Name   | Estima-<br>ted<br>Benefi-<br>ciary | Basic<br>Human<br>Needs | Opera-<br>tional<br>Year | Social<br>Consi-<br>dera-<br>tions | Environ-<br>mental<br>Consi-<br>dera-<br>tions | Social<br>and<br>Environ-<br>mental<br>Positive<br>Impact | Sector<br>Priority | Area<br>Priority | CC<br>Functio-<br>nal<br>Enhance-<br>ment | O&M<br>Sustain-<br>ability | Econo-<br>mic<br>Effect | Total<br>Score | Cost  |
|----|---|--|------------------------------------|-------------------------|--------------------------|------------------------------------|--|---|--------------------|------------------|---|----------------------------|-------------------------|----------------|-------|
|    |   |  | 0-10                               | 0-10                    | 0-10                     | 0-10                               | 0-10   | 0-10  | 0-10               | 0-10             | 0-10                                      | 0-10                       | 0-10                    | 0-10           | 0-110 |
| 28 | Transport,<br>Road & Drain<br>Improvement | Improvement of Road from Silmon-Jogibari tek to Pagar-Gopalpur conncting road via Gofur Khan Road-Hahif Bapari School-graveyard by BC work & RCC Drain                       | 0                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 5                       | 55             | 10.0  |
| 23 | Transport,<br>Road                        | Improvement of Tongi-Vadam road by B.C work & R.C.C drain work   | 0                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 5                       | 55             | 17.5  |
| 24 | Transport,<br>Road                        | Improvement of Tongi-Sataish main road by BC work (Up to Gutia) & RCC drain  | 0                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 5                       | 55             | 18.0  |
| 8  | Transport,<br>Road                        | Repairing & widening of BC Road from Mazu khan bazar to Meghdubi Bi-pass road at Pubail  | 5                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 0                       | 55             | 7.9   |
| 14 | Transport,<br>Road                        | Repairing & widening of BC Road from Dhaka-Mymensingh road of IUT gate to Jajor by pass via Kathura-Issor-Moshar tek-Daulatpur bazar, Hariken factory, Deker Chala Chowrasta | 5                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 0                       | 55             | 20.0  |
| 16 | Transport,<br>Road                        | Repairing & widening of BC Road from Joorpukur par to Salna bazar via Pajulia-Gazipur-Chattar bazaar-Shemul Toli bazar   | 5                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 0                       | 55             | 34.0  |
| 29 | Drain<br>Improvement                      | Construction of RCC drain starting from the Barkot Sharani road through the Bolli Baid to the Mogorkhal  | 0                                  | 10                      | 10                       | 5                                  | 5  | 10  | 5                  | 0                | 0   | 10                         | 0                       | 55             | 25.0  |
| 7  | Transport,<br>Road                        | 1) Repairing of BC road from Shibbari moor to Joorpukur,<br>2) Repairing & widening of BC road Joorpukur to Titterkul  | 0                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 5                       | 55             | 13.0  |
| 22 | Transport,<br>Road                        | Improvement of Road from Dhaka-Mymensingh road at Board Bazar to Joydebpur Choirasta road at Tin sorak of BRRI via Bot Tola-Jajor Bazar-Jogi Tola road                       | 5                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 0                       | 55             | 15.5  |

| No | Sector                  | Project Name  | Estima-<br>ted<br>Benefi-<br>ciary | Basic<br>Human<br>Needs | Opera-<br>tional<br>Year | Social<br>Consi-<br>dera-<br>tions | Environ-<br>mental<br>Consi-<br>dera-<br>tions | Social<br>and<br>Environ-<br>mental<br>Positive<br>Impact | Sector<br>Priority | Area<br>Priority | CC<br>Functio-<br>nal<br>Enhance-<br>ment | O&M<br>Sustain-<br>ability | Econo-<br>mic<br>Effect | Total<br>Score | Cost  |
|----|-------------------------|---|------------------------------------|-------------------------|--------------------------|------------------------------------|--|---|--------------------|------------------|---|----------------------------|-------------------------|----------------|-------|
|    |                         |   | 0-10                               | 0-10                    | 0-10                     | 0-10                               | 0-10   | 0-10  | 0-10               | 0-10             | 0-10                                      | 0-10                       | 0-10                    | 0-10           | 0-110 |
| 13 | Transport,<br>Road      | Repairing & widening of BC Road from Porabari bazar of Dhaka–Mymensingh road to Salna bazar of Dhaka–Mymensingh road via jolarpar bazaar–Karkhana bazar & jolarpar bazaar–Master bari bazar                                   | 5                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 0                       | 55             | 27.5  |
| 20 | Transport,<br>Road      | (a) Improvement of BC Road with RCC Drain from Dhaka–Pubile Road to changer Ghat via Morkun–Maruka–Harbaid (b) Construction of Maruka Bridge (c) Construction of Harbaid changer Ghat to somorshing village connecting Bridge | 0                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 5                       | 55             | 33.7  |
| 6  | Transport,<br>Road      | Improvement of BC road & RCC Drain of Zoybangla road (Boro Bari to Meghdobi bipass via Akkas Market).   | 0                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 0                       | 50             | 15.0  |
| 21 | Transport,<br>Road      | Improvement of BC road with RCC Drain from Maleker bari (Dhaka–Mymensingh highway) to Bashan Sharak via Ojharpara, Haque market.  | 0                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 0                       | 50             | 19.5  |
| 18 | Transport,<br>Road      | Improvement of road by Carpeting with RCC drain from Kashimpur bazaar to bus stand  | 0                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 0                       | 50             | 62.6  |
| 9  | Transport,<br>Road      | Improvement of BC road with RCC Drain from Dhaka–Tangail road (Near polly Biddut) to the Zorun mour at Kashimpur  | 0                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 0                       | 50             | 15.1  |
| 15 | Transport,<br>Road      | Construction of BC Road from North side of Baimail Bridge to Nashar market Ambag connecting road via Itkhola–Bagia High school–Joyertek   | 0                                  | 5                       | 10                       | 5                                  | 5  | 5   | 10                 | 0                | 0   | 10                         | 0                       | 50             | 14.0  |
| 32 | Municipal<br>Facilities | Truck Terminal (Terminal building, platform, internal drains  | 5                                  | 0                       | 10                       | 5                                  | 5  | 0   | 0                  | 0                | 5   | 10                         | 10                      | 50             | 15.0  |

Note: Cost is estimation by the CC. Source: ICGP Team

**Table 9-3: Preliminary Review on Environmental and Social Consideration**

| No | Sector          | Project Name  | Environmental Consideration    |                                   |                          | Social Consideration |                                       |   |                                  |   |                          | JICA Sector (Reference) |
|----|-----------------|---|--------------------------------|-----------------------------------|--------------------------|----------------------|---------------------------------------|---|----------------------------------|---|--------------------------|-------------------------|
|    |                 |   | Category in GOB                | Required Document                 | Budgets & Capacity of EA | Land Acquisition     | PAP <sup>10</sup> 's with No.         | Required document by donor for involuntary resettlement | PAFs under Construction with No. | Description of Adverse Impacts                    | Budgets & Capacity of EA |                         |
|    |                 |   | Green/ Orange A/ Orange B/ Red | NOC/ NOC, IEE& EMP/ NOC, EIA& EMP | Secured or not           | Yes (area) or not    | Yes (No.) or not                      | RAP/ ARAP/ RAP-PF/ IPP                                  | Yes (No.) or not                 | (i.e., loss of jobs, loss of income) and measures | Secured or not           |                         |
|    | Transport       | Construction of fly over from Shibbari mour to Rathkhola  | Red                            | EIA                               | No (*2)                  | No                   | No legal PAPs (Possibly illegal PAPs) | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Transport, Road | Construction of Road With Drain(1.4+7.5) from Nowzour to Zirani bazar (Chandana-Nobinagar connecting road) via Islampur Kashimpur Road  | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs (Possibly illegal PAPs) | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Transport, Road | Repairing & widening of BC Road with RCC Drain (up to shaker pool) from Konabari bus stand to Norshingapur (Ashulia connecting road)  | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs (Possibly illegal PAPs) | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Transport, Road | (a) Improvement of Road from Bhawal-Gazipur rail station to Tongi-Pubail connecting road (East side of Tongi Rail Station) via Joydebpur - Dhirasram - Bonomala Road (b) Improvement of Bonomala Rail gate road to Dhaka-Mymensingh road (c) Bonomala Sayed Mridha connecting road to Pubail Connecting road behind Tongi Thana | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs (Possibly illegal PAPs) | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Transport, Road | Improvement of Road from Bilaspur Bot-tola to Salna Bazar (Dhaka- Mymensingh connecting road).  | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs (Possibly illegal PAPs) | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Transport, Road | Improvement of BC road & RCC Drain of Zoybangla road (Boro Bari to Meghdobi bipass via Akkas Market)  | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs (Possibly illegal PAPs) | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |

<sup>10</sup> PAP Project Affected Person



| No | Sector            | Project Name  | Environmental Consideration    |                                   |                          | Social Consideration |                                       |   |                                  |   |                          | JICA Sector (Reference) |
|----|-------------------|---|--------------------------------|-----------------------------------|--------------------------|----------------------|---------------------------------------|---|----------------------------------|---|--------------------------|-------------------------|
|    |                   |   | Category in GOB                | Required Document                 | Budgets & Capacity of EA | Land Acquisition     | PAP <sup>10</sup> 's with No.         | Required document by donor for involuntary resettlement | PAPs under Construction with No. | Description of Adverse Impacts                    | Budgets & Capacity of EA |                         |
|    |                   |   | Green/ Orange A/ Orange B/ Red | NOC/ NOC, IEE& EMP/ NOC, EIA& EMP | Secured or not           | Yes (area) or not    | Yes (No.) or not                      | RAP/ ARAP/ RAP-PF/ IPP                                  | Yes (No.) or not                 | (i.e., loss of jobs, loss of income) and measures | Secured or not           |                         |
|    | Transport, Road   | 1) Repairing of BC road from Shibbari moor to Joorpukur., 2) Repairing & widening of BC road Joorpukur to Titterkul   | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs (Possibly illegal PAPs) | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Transport, Road   | Repairing & widening of BC Road from Mazu khan bazar to Meghdubi Bi-pass road at Pubail   | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs (Possibly illegal PAPs) | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Transport, Road   | Improvement of BC road with RCC Drain from Dhaka-Tangail road (Near polly Biddut) to the Zorun mour at Kashimpur  | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs (Possibly illegal PAPs) | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Drain Improvement | Construction of RCC Drain from Morkun Tista gate to Hadrabad Rail Bridge, Tista gate Alom House to Rail line, Mirar para Bachu house to rail line & Alaksha Mosque to grave yard road       | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs                         | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Drain                   |
|    | Transport, Road   | Repairing & widening BC road from Board Bazar (Central mosque) to Asulia road via Gacha-Chandara-Satish-Tilargati-Protasha  | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs                         | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Transport, Road   | Improvement of road by Carpeting with RCC drain from Kashimpur bazar to sreepur bus stand.  | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs                         | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Transport, Road   | Repairing & widening of BC Road from Porabari bazar of Dhaka-Mymensingh road to Salna bazar of Dhaka-Mymensingh road via jolarpar bazaar-Karkhana bazar & jolarpar bazaar-Master bari bazar | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs                         | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |

| No | Sector            | Project Name  | Environmental Consideration    |                                   |                          | Social Consideration |                                       |   |                                  |   |                          | JICA Sector (Reference) |
|----|-------------------|---|--------------------------------|-----------------------------------|--------------------------|----------------------|---------------------------------------|---|----------------------------------|---|--------------------------|-------------------------|
|    |                   |   | Category in GOB                | Required Document                 | Budgets & Capacity of EA | Land Acquisition     | PAP <sup>10</sup> 's with No.         | Required document by donor for involuntary resettlement | PAPs under Construction with No. | Description of Adverse Impacts                    | Budgets & Capacity of EA |                         |
|    |                   |   | Green/ Orange A/ Orange B/ Red | NOC/ NOC, IEE& EMP/ NOC, EIA& EMP | Secured or not           | Yes (area) or not    | Yes (No.) or not                      | RAP/ ARAP/ RAP-PF/ IPP                                  | Yes (No.) or not                 | (i.e., loss of jobs, loss of income) and measures | Secured or not           |                         |
|    | Transport, Road   | Repairing & widening of BC Road from Dhaka–Mymensingh road of IUT gate to Jajor by pass via Kathura–Issor–Moshar tek–Daulatpur bazar, Hariken factory, Deker Chala Chowrasta  | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs                         | C Currently No (*3)                                     | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Transport, Road   | Construction of BC Road from North side of Baimail Bridge to Nashar market Ambag connecting road via Itkhola–Bagia High school- Joyrtek   | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs                         | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Transport, Road   | Repairing & widening of BC Road from Joorpokur par to Salna bazar via Pajulia–Gazipur-Chattar bazaar–Shemul Toli bazar  | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs                         | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Drain Improvement | Construction of RCC Drain from chowrasta to Chilai Khal via Telipara–Bariali  | Orange-A                       | NOC                               | No (*1)                  | No                   | No legal PAPs                         | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Drain                   |
|    | Transport, Road   | Improvement of road by Carpeting with RCC drain from Kashimpur bazar to sreepur bus stand   | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs (Possibly illegal PAPs) | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Drain Improvement | Improvement of drain starting from Kazi bari Dhal to Hospital bridge via grave yard-Cha Bagan road culvert and other Construction of RCC drains   | Orange-A                       | NOC                               |                          | No                   | No legal PAPs (Possibly illegal PAPs) | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           |                         |
|    | Transport, Road   | (a) Improvement of BC Road with RCC Drain from Dhaka–Pubile Road to changer Ghat via Morkun–Maruka–Harbaid. (b) Construction of Maruka Bridge. (c) Construction of Harbaid changer Ghat to somorshing village connecting Bridge | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs                         | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           |                         |

| No | Sector                              | Project Name  | Environmental Consideration    |                                   |                          | Social Consideration |                                       |   |                                  |   |                          | JICA Sector (Reference) |
|----|-------------------------------------|---|--------------------------------|-----------------------------------|--------------------------|----------------------|---------------------------------------|---|----------------------------------|---|--------------------------|-------------------------|
|    |                                     |   | Category in GOB                | Required Document                 | Budgets & Capacity of EA | Land Acquisition     | PAP <sup>10</sup> 's with No.         | Required document by donor for involuntary resettlement | PAPs under Construction with No. | Description of Adverse Impacts                    | Budgets & Capacity of EA |                         |
|    |                                     |   | Green/ Orange A/ Orange B/ Red | NOC/ NOC, IEE& EMP/ NOC, EIA& EMP | Secured or not           | Yes (area) or not    | Yes (No.) or not                      | RAP/ ARAP/ RAP-PF/ IPP                                  | Yes (No.) or not                 | (i.e., loss of jobs, loss of income) and measures | Secured or not           |                         |
|    | Transport, Road                     | Improvement of BC road with RCC Drain from Maleker bari (Dhaka–Mymensingh highway) to Bashan Sharak via Ojharpara, Haque market                         | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs                         | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Transport, Road                     | Improvement of Road from Dhaka–Mymensing road at Board Bazar to Joydebpur Choirasta road at Tin sorak of BRR1 via Bot Tola–Jajor Bazar–Jogi Tola road   | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs (Possibly illegal PAPs) | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Transport, Road                     | Improvement of Tongi–Vadam road by B.C work & RCC drain work  | Orange-A                       | NOC                               |                          | No                   | No legal PAPs (Possibly illegal PAPs) | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Transport, Road                     | Improvement of Tongi–Sataish main road by BC work (Up to Gutia) & RCC drain   | Orange-A                       | NOC                               |                          | No                   | No legal PAPs (Possibly illegal PAPs) | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Drain Improvement                   | Construction of Gazipur RCC drain (out fall)  | Orange-A                       | NOC                               |                          | No                   | No legal PAPs (Possibly illegal PAPs) | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Drain                   |
|    | Transport                           | Improvement of Vadam Central mosque road by BC work and the other   | Orange - B                     | IEE                               | No (*1)                  | No                   | No legal PAPs                         | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Transport, Drain Improvement        | Re-Construction of Vakral-Gutia Road with box culvert by HBB work and the other   | Orange - B                     | IEE                               | No (*1)                  | No                   | No legal PAPs                         | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |
|    | Transport, Road & Drain Improvement | Improvement of Road from Silmon–Jogibari tek to Pagar–Gopalpur connecting road via Gofur Khan Road–Hahif Bapari School-graveyard by BC work & RCC Drain | Orange-B                       | IEE                               | No (*1)                  | No                   | No legal PAPs                         | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Road                    |

| No | Sector               | Project Name  | Environmental Consideration              |                                   |                          | Social Consideration |                               |   |                                  |   |                          | JICA Sector (Reference) |
|----|----------------------|---|--|-----------------------------------|--------------------------|----------------------|-------------------------------|---|----------------------------------|---|--------------------------|-------------------------|
|    |                      |   | Category in GOB                          | Required Document                 | Budgets & Capacity of EA | Land Acquisition     | PAP <sup>10</sup> 's with No. | Required document by donor for involuntary resettlement | PAPs under Construction with No. | Description of Adverse Impacts                    | Budgets & Capacity of EA |                         |
|    |                      |   | Green/ Orange A/ Orange B/ Red           | NOC/ NOC, IEE& EMP/ NOC, EIA& EMP | Secured or not           | Yes (area) or not    | Yes (No.) or not              | RAP/ ARAP/ RAP-PF/ IPP                                  | Yes (No.) or not                 | (i.e., loss of jobs, loss of income) and measures | Secured or not           |                         |
|    | Drain Improvement    | Construction of RCC drain starting from the Barkot Sharani road through the Bolli Baid to the Mogorkhal | Orange - A                               | NOC                               |                          | No                   | No legal PAPs                 | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Drain                   |
|    | Drain Improvement    | Construction of Morkun Graveyard RCC drain work (Pagar Morkun Connecting Khal) and other                | Orange - A                               | NOC                               |                          | No                   | No legal PAPs                 | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Drain                   |
|    | WSS                  | Installation of Production Tube wells, Pumps house, Necessary electrical work & distribution pipe line  | Red (Only for installation of pipe line) | EIA                               | No (*2)                  | No                   | No legal PAPs                 | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Water Supply            |
|    | Municipal Facilities | Truck Terminal (Terminal building, platform, Internal drains  | Orange - A                               | NOC                               |                          | No                   | No legal PAPs                 | Currently No (*3)                                       | Currently No (*4)                | Currently No (*5)                                 | No budget (*6)           | Building                |

\*1: Minimum 1 month for outsourcing, \*2: Minimum 3 months for outsourcing, \*3: Illegal PAPs and required documents can only be determined at the detail design phase, \*4: PAPs can only be determined at the detail design phase, \*5: can only be determined at the detail design phase, \*6: CC staff can only supervise the contractor in case any documents were required  
Source: ICGP Team

## **(2) Environmental and Social Consideration Appraisal of Subprojects**

Based on the subproject list submitted by the GCC in April 2013, ICGP experts conducted site visits at some sites with GCC engineers. The purpose of the visits was to observe existing conditions in at the sites in terms of environmental and social considerations. Prior to the visit, the ICGP experts provided an initial check form for environmental and social considerations (Table 7-3 of Volume 1, Chapter 7). The list was distributed and explained to all CCs and infrastructure WGs by the ICGP experts in April 2013.

ICGP then nominated subprojects after the visits. Table 9-3 summarizes the current environmental and social conditions. For environmental considerations, projects in the Red Category under GOB regulation require a full EIA (for construction of water supply systems, the EIA is limited to pipeline installation). Most of subprojects (principally in the road sector) are in the Orange-B Category, which require an IEE. The rest of the subprojects are categorized under Orange-A, which are considered to have minimal environmental impacts and only requires a NOC.

In terms of social considerations, none of the subprojects require land acquisition or involuntary resettlement according to GCC experts.

Thus, Table 9-3 does not mention any PAPs (Project Affected Person). However, there are possibilities for PAPs, which may go unidentified in the detailed project design phases as those under JICA Guideline – these include illegal squatters and individuals impacted during construction (i.e., lose their jobs/income or suffer adverse social impacts). If adverse impacts are identified, the GCC needs to take measures to minimize impacts. These measures include considering alternative plans and preparing required JICA documents for involuntary resettlement such as an Abbreviated Resettlement Action Plan (ARAP) and a Resettlement Action Plan (RAP).

The ICGP prepared the Draft Resettlement Action Plan Policy Framework (DRAP-PF), which will guide GCC in preparing the ARAP and RAP in case these are needed after the ICGP. The DRAP-PF is presented in Annex G-5, Volume 1 of this Final Report.

Although, the JICA Project requires the submission of the aforementioned documents to mitigate adverse impacts upon the project appraisal, compensation funds shall be borne by the Bangladesh side. It is advisable for GCC to consult with LGED on the subproject appraisal process as LGED is familiar with the execution of international donor funded projects in the past.

Currently, most of the nominated subprojects are expected to generate minimal social impacts. However, some subprojects require special considerations due to social impact such as drainage and water supply ones. Subprojects will be refined in the detailed design phase to avoid adverse impacts in surrounding areas.

## **(3) Selected Subprojects along Budget Ceiling**

The table below summarizes the cumulative costs from high scoring subprojects. If the total budget for this JICA ODA project were allocated evenly to four CCs, the estimated budget ceiling of each CC would be about 500 crore BDT. Based on this simple assumption, the ICGP Team selected subprojects scoring 55 or above in the Stage 2 evaluation for further consideration.

**Table 9-4: Priority and Cumulative Cost for Select Subprojects in Stage 2**

| Score Range  | Cumulative Cost (Crore BDT) |
|--------------|-----------------------------|
| 65 and above | 246.6                       |
| 60 and above | 448.9                       |
| 55 and above | 677.5                       |
| 50 and above | 841.3                       |
| Total        | 841.3                       |

Source: ICGP Team

**Table 9-5: Cost of Individual Selected Subprojects in Stage 2**

| No. | Sector            | Subproject Name   | Cost (Crore BDT) |
|-----|-------------------|---|------------------|
| 1   | Transport         | Construction of a flyover from Shibbari Mour to Rathkhola   | 70.00            |
| 2   | Transport, Road   | Construction of roads with drains (1.4 km+7.5 km) from Nowzour to Zirani Bazar (Chandana–Nobinagar Connector Road) via Islampur Kashimpur Road  | 130.00           |
| 3   | Transport, Road   | Repair and widening of the BC Road with a RCC drain (up to shaker pool) from the Konabari Bus Stand to Norshingapur (Ashulia Connector Road)  | 24.04            |
| 4   | Transport, Road   | (a) Improvement of road from the Bhawal–Gazipur Rail Station to the Tongi–Pubail connector road (on the east side of the Tongi Rail Station) via Joydebpur–Dhirasram–Bonomala Road<br>(b) Improvement of Bonomala Rail Gate Road to Dhaka–Mymensingh Road<br>(c) Improvement of Bonomala Sayed Mridha connecting Road to the Pubail Connector Road behind Tongi Thana | 72.00            |
| 5   | Transport, Road   | Improvement of the road from Bilaspur Bot-tola to Salna Bazar (Dhaka–Mymensingh Connector Road).  | 7.6              |
| 7   | Transport, Road   | (a) Repair of the BC Road from Shibbari Moor to Joorpukur<br>(b) Repairing & widening of BC road Joorpukur to Titterkul   | 13.00            |
| 8   | Transport, Road   | Repair and widening of the BC Road from the Mazu Khan Bazar to the Meghdubi Bypass at Pubail  | 7.85             |
| 10  | Drain Improvement | Construction of a RCC drain from the Morkun Tista Gate to the Hadrabad Rail Bridge, Tista Gate Alom House to the rail line, Mirar Para Bachu House to the rail line and the Alaksha Mosque to the graveyard road  | 15.00            |
| 11  | Transport, Road   | Repair and widening of the BC Road from the Board Bazar (Central Mosque) to Asulia Road via Gacha–Chandara–Satish–Tilargati–Prottasha   | 13.50            |
| 12  | Transport, Road   | Road improvements by carpeting with RCC drains from Kashimpur Bazar to the Sreepur Bus Stand  | 15.0             |
| 13  | Transport, Road   | Repair and widening of the BC Road from the Porabari Bazar along the Dhaka–Mymensingh Road to the Salna Bazar along the Dhaka–Mymensingh Road via Jolarpar Bazar–Karkhana Bazar & Jolarpar Bazar–Master Bari Bazar  | 27.50            |
| 14  | Transport, Road   | Repair and widening of the BC Road from Dhaka–Mymensingh Road of IUT Gate to Jajor Bypass via Kathura–Issor–Moshar tek–Daulatpur Bazar, Hariken factory, Deker Chala Chowrasta  | 20.00            |
| 16  | Transport, Road   | Repair and widening of the Road from Joorpukur Par to Salna Bazar via Pajulia–Gazipur–Chattar Bazar–Shemul Toli Bazar   | 34.00            |
| 17  | Drain Improvement | Construction of a RCC drain from Chowrasta to Chilai Khal via Telipara–Bariali  | 6.80             |

| No.   | Sector                             | Subproject Name   | Cost<br>(Crore<br>BDT) |
|-------|------------------------------------|---|------------------------|
| 19    | Drain<br>Improvement               | Improvement of drains starting from the Kazi Bari Dhal to the Hospital Bridge via the graveyard–Cha Bagan road culvert and other construction of RCC drains   | 49.50                  |
| 20    | Transport,<br>Road                 | (a) Improvement of the BC Road with a RCC drain from the Dhaka–Pubile Road to Changer Ghat via Morkun–Maruka–Harbaid.<br>(b) Construction of the Maruka Bridge.<br>(c) Construction of the Harbaid Changer Ghat to Somorshing Village Connecting Bridge | 33.70                  |
| 22    | Transport,<br>Road                 | Road improvements from the Dhaka–Mymensing Road at Board Bazar to Joydebpur Choirasta Road at Tin Sorak of BRRI via Bot Tola–Jajor Bazar–Jogi Tola Road   | 15.50                  |
| 23    | Transport,<br>Road                 | Improvement of the Tongi–Vadam Road with BC work & RCC drains   | 17.50                  |
| 24    | Transport,<br>Road                 | Improvement of the Tongi–Sataish Main Road with BC work (up to Gutia) and RCC drains  | 18.00                  |
| 25    | Drain<br>Improvement               | Construction of the Gazipur RCC drain outfall   | 8.00                   |
| 26    | Transport                          | Improvement of the Vadam Central Mosque Road by BC work and others  | 8.08                   |
| 27    | Transport,<br>Drain<br>Improvement | Reconstruction of Vakral–Gutia Road with a box culvert by HBB work and the other roads  | 21.00                  |
| 28    | Transport,<br>Road &<br>Drain      | Improvement of the road from Silmon–Jogibari Tek to Pagar–Gopalpur Connector Road via Gofur Khan Road–Hahif Bapari School–graveyard by BC work and RCC drains   | 10.00                  |
| 29    | Drain<br>Improvement               | Construction of a RCC drain starting from the Barkot Sharani Road through the Bolli Baid to the Mogorkhal   | 25.00                  |
| 30    | Drain<br>Improvement               | Construction of the Morkun Graveyard RCC drains (Pagar Morkun Connecting Khal) and other drains   | 13.50                  |
| 31    | WSS                                | Installation of production tube wells, pump houses, requisite electrical work and distribution pipeline   | 24.00                  |
| Total |                                    |   | 677.47                 |

Note: Costs are estimated by the CC.

Source: ICGP Team

### 9.2.3 Stage 3: Assessment of Readiness

#### (1) Evaluation at Stage 3

The assessment of subproject readiness is presented below:

Table 9-6: Readiness Assessment Results

| No | Sector            | Project Name  | Total Score | Cost  | Maturity         |                      |                                     |               | Emergency    |                |                                |
|----|-------------------|---|-------------|-------|------------------|----------------------|-------------------------------------|---------------|--------------|----------------|--------------------------------|
|    |                   |   |             |       | Land Acquisition | Necessity of Studies | Social and Environmental Procedures | O&M Structure | Quick Impact | Quick Recovery | Influence to Other Subprojects |
|    |                   |   |             |       | 0-110            | Crepe BDT            | Yes (✓)                             | Yes (✓)       | Yes (✓)      | Yes (✓)        | Yes (✓)                        |
|    | Transport         | Construction of fly over from Shibbari mour to Rathkhola  | 65          | 70.0  |                  | ✓                    | ✓                                   |               |              |                |                                |
|    | Transport, Road   | Construction of Road With Drain (1.4+7.5) from Nowzour to Zirani bazar (Chandana–Nobinagar connecting road) via Islampur Kashimpur Road   | 65          | 130.0 |                  | ✓                    | ✓                                   |               |              |                |                                |
|    | Transport, Road   | Repairing & widening of BC Road with RCC Drain (up to shaker pool) from Konabari bus stand to Norshingapur (Ashulia connecting road)  | 65          | 24.0  |                  |                      |                                     |               | ✓            |                |                                |
|    | Transport, Road   | Improvement of Road from Bilaspur Bot-tola to Salna Bazar (Dhaka- Mymensingh connecting road).  | 65          | 7.6   |                  |                      |                                     |               |              |                |                                |
|    | Transport, Road   | Improvement of road by Carpeting with RCC drain from Kashimpur bazar to sreepur bus stand.  | 65          | 15.0  |                  |                      |                                     |               |              |                |                                |
|    | Drain Improvement | Construction of RCC Drain from Morkun Tista gate to Hadrabad Rail Bridge, Tista gate Alom House to Rail line, Mirar para Bachu house to rail line & Alaksha Mosque to grave yard road | 60          | 15.0  |                  |                      |                                     |               |              |                |                                |
|    | Drain Improvement | Construction of Morkun Graveyard RCC drain work (Pagar Morkun Connecting Khal) and other  | 60          | 13.5  |                  |                      |                                     |               |              |                |                                |
|    | Drain Improvement | Construction of Gazipur RCC drain (out fall)  | 60          | 8.0   |                  |                      |                                     |               |              |                |                                |
|    | Drain Improvement | Construction of RCC Drain from chowrasta to Chilai Khal via Telipara-Bariali  | 60          | 6.8   |                  |                      |                                     |               |              |                |                                |
|    | Drain Improvement | Improvement of drain starting from Kazi bari Dhal to Hospital bridge via grave yard-Cha Bagan road culvert and other Construction of RCC drains                                       | 60          | 49.5  |                  |                      |                                     |               |              |                |                                |
|    | Transport, Road   | Repairing & widening BC road from Board Bazar (Central mosque) to Asulia road via Gacha–Chandara–Satish–Tilargati–Prottasha   | 60          | 13.5  |                  |                      |                                     |               | ✓            |                |                                |
|    | WSS               | Installation of Production Tube wells, Pumps house, Necessary electrical work & distribution pipe line  | 60          | 24.0  |                  |                      | ✓                                   |               |              |                |                                |



| No | Sector                              | Project Name  | Total Score<br>0-110 | Cost<br>Crore BDT | Maturity         |                      |                                     |               | Emergency    |                |                                |
|----|-------------------------------------|---|----------------------|-------------------|------------------|----------------------|-------------------------------------|---------------|--------------|----------------|--------------------------------|
|    |                                     |   |                      |                   | Land Acquisition | Necessity of Studies | Social and Environmental Procedures | O&M Structure | Quick Impact | Quick Recovery | Influence to Other Subprojects |
|    |                                     |   |                      |                   | Yes (✓)          | Yes (✓)              | Yes (✓)                             | Yes (✓)       | Yes (✓)      | Yes (✓)        | Yes (✓)                        |
|    | Transport, Road                     | (a) Improvement of Road from Bhawal–Gazipur rail station to Tongi–Pubail connecting road (East side of Tongi Rail Station) via Joydebpur–Dhirasram–Bonomala Road (b) Improvement of Bonomala Rail gate road to Dhaka–Mymensingh road (c) Bonomala Sayed Mridha connecting road to Pubail Connecting road behind Tongi Thana | 60                   | 72.0              |                  |                      |                                     |               |              |                |                                |
|    | Transport                           | Improvement of Vadam Central mosque road by BC work and the other   | 55                   | 8.1               |                  |                      |                                     |               | ✓            |                |                                |
|    | Transport, Drain                    | Re-Construction of Vakral–Gutia Road with box culvert by HBB work and the other   | 55                   | 21.0              |                  |                      |                                     |               | ✓            |                |                                |
|    | Transport, Road & Drain Improvement | Improvement of Road from Silmon–Jogibari tek to Pagar–Gopalpur connecting road via Gofur Khan Road–Hahif Bapari School-graveyard by BC work & RCC Drain   | 55                   | 10.0              |                  |                      |                                     |               |              |                |                                |
|    | Transport, Road                     | Improvement of Tongi–Vadam road by B.C work & R.C.C drain work  | 55                   | 17.5              |                  |                      |                                     |               |              |                |                                |
|    | Transport, Road                     | Improvement of Tongi-Sataish main road by BC work (Upto Gutia) & RCC drain  | 55                   | 18.0              |                  |                      |                                     |               |              |                |                                |
|    | Transport, Road                     | Repairing & widening of BC Road from Mazu Khan bazar to Meghdubi Bi-pass road at Pubail   | 55                   | 7.9               |                  |                      |                                     |               | ✓            |                |                                |
|    | Transport, Road                     | Repairing & widening of BC Road from Dhaka–Mymensingh road of IUT gate to Jajor by pass via Kathura–Issor–Moshar tek–Daulatpur bazar, Hariken factory, Deker Chala Chowrasta.   | 55                   | 20.0              |                  |                      |                                     |               | ✓            |                |                                |
|    | Transport, Road                     | Repairing & widening of BC Road from Joorpukur par to Salna bazar via Pajulia–Gazipur–Chattar bazaar–Shemul Toli bazar  | 55                   | 34.0              |                  |                      |                                     |               |              |                |                                |
|    | Drain Improvement                   | Construction of RCC drain starting from the Barkot Sharani road through the Bolli Baid to the Mogorkhal   | 55                   | 25.0              |                  |                      |                                     |               |              |                |                                |
|    | Transport, Road                     | 1) Repairing of BC road from Shibbari moor to Joorpukur. 2) Repairing & widening of BC road Joorpukur to Titterkul  | 55                   | 13.0              |                  |                      |                                     |               |              |                |                                |

| No | Sector          | Project Name  | Total Score | Cost | Maturity         |                      |                                     |               | Emergency    |                |                                |
|----|-----------------|---|-------------|------|------------------|----------------------|-------------------------------------|---------------|--------------|----------------|--------------------------------|
|    |                 |   |             |      | Land Acquisition | Necessity of Studies | Social and Environmental Procedures | O&M Structure | Quick Impact | Quick Recovery | Influence to Other Subprojects |
|    |                 |   |             |      | 0-110            | Cre<br>BDT           | Yes (✓)                             | Yes (✓)       | Yes (✓)      | Yes (✓)        | Yes (✓)                        |
| 22 | Transport, Road | Improvement of Road from Dhaka-Mymensing road at Board Bazar to Joydebpur Choirasta road at Tin sorak of BRRI via Bot Tola-Jajor Bazar-Jogi Tola road   | 55          | 15.5 |                  |                      |                                     |               |              |                |                                |
|    | Transport, Road | Repairing & widening of BC Road from Porabari bazar of Dhaka-Mymensingh road to Salna bazar of Dhaka-Mymensingh road via jolarpar bazaar-Karkhana bazar & jolarpar bazaar-Master bari bazaar                                  | 55          | 27.5 |                  |                      |                                     |               | ✓            |                |                                |
|    | Transport, Road | (a) Improvement of BC Road with RCC Drain from Dhaka-Pubile Road to changer Ghat via Morkun-Maruka-Harbaid (b) Construction of Maruka Bridge (c) Construction of Harbaid changer Ghat to somorshing village connecting Bridge | 55          | 33.7 |                  |                      |                                     |               |              |                |                                |

Note: Cost is estimation by the CC.

Source: ICGP Team

Considering the assessment of subprojects mentioned above, the ICGP Team removed Subproject No. 1 from the shortlist as it was not ready for this JICA ODA program. This subproject includes a long bridge that requires careful examination from the planning, engineering, social and environmental perspectives. Subproject No. 2 also includes a bridge section and road alignment, which is very important in the network. Hence, the ICGP Team selected only two-thirds of the proposed extension and eliminated the rest of the section from the subproject including the bridge. Assessment of the bridge feasibility will be conducted independently before implementation.

As a result, the finalized list of GCC subprojects is summarized below.

**Table 9-7: Selected Subprojects in Stage 3**

| No. | Sector               | Subproject Name  | Cost<br>(Crore BDT) |
|-----|----------------------|--|---------------------|
| 2   | Transport,<br>Road   | Construction of roads with drains (1.4 km+7.5 km) from the Zirani Bazar (Chandana-Nobinagar Connector Road) to Islampur Kashimpur Road   | 130.00*             |
| 3   | Transport,<br>Road   | Repair and widening of the BC Road with a RCC drain (up to shaker pool) from the Konabari Bus Stand to Norshingapur (Ashulia Connector Road)   | 24.04               |
| 4   | Transport,<br>Road   | (a) Improvement of road from the Bhawal–Gazipur Rail Station to the Tongi–Pubail Connector Road (on the east side of the Tongi Rail Station) via Joydebpur–Dhirasram–Bonomala Road<br>(b) Improvement of Bonomala Rail Gate Road to Dhaka–Mymensingh Road<br>(c) Improvement of Bonomala Sayed Mridha Connector Road to the Pubail Connector Road behind Tongi Thana | 72.00               |
| 5   | Transport,<br>Road   | Improvement of the road from Bilaspur Bot-tola to Salna Bazar (Dhaka- Mymensingh Connector Road).  | 7.6                 |
| 7   | Transport,<br>Road   | (a) Repair of the BC Road from Shibbari Moor to Joorpukur<br>(b) Repairing & widening of BC road Joorpukur to Titterkul  | 13.00               |
| 8   | Transport,<br>Road   | Repair and widening of the BC Road from the Mazu Khan Bazar to the Meghdubi Bypass at Pubail   | 7.85                |
| 10  | Drain<br>Improvement | Construction of a RCC drain from the Morkun Tista Gate to the Hadrabad Rail Bridge, Tista Gate Alom House to the rail line, Mirar Para Bachu House to the rail line and the Alaksha Mosque to the graveyard road   | 15.00               |
| 11  | Transport,<br>Road   | Repair and widening of the BC Road from the Board Bazar (Central Mosque) to Ashulia Road via Gacha–Chandara–Satish–Tilargati–Prottasha   | 13.50               |
| 12  | Transport,<br>Road   | Road improvements by carpeting with RCC drains from Kashimpur Bazar to the Sreepur Bus Stand   | 15.0                |
| 13  | Transport,<br>Road   | Repair and widening of the BC Road from the Porabari Bazar along the Dhaka–Mymensingh Road to the Salna Bazar along the Dhaka–Mymensingh Road via Jolarpar Bazar–Karkhana Bazar & Jolarpar Bazar–Master Bari Bazar   | 27.50               |
| 14  | Transport,<br>Road   | Repair and widening of the BC Road from Dhaka-Mymensingh Road of IUT Gate to Jajor Bypass via Kathura–Issor-Moshar tek–Daulatpur Bazar, Hariken factory, Deker Chala Chowrasta   | 20.00               |
| 16  | Transport,<br>Road   | Repair and widening of the Road from Joorpukur Par to Salna Bazar via Pajulia–Gazipur–Chattar Bazar–Shemul Toli Bazar  | 34.00               |
| 17  | Drain<br>Improvement | Construction of a RCC drain from Chowrasta to Chilai Khal via Telipara–Bariali   | 6.80                |

| No.   | Sector                       | Subproject Name   | Cost<br>(Crore BDT) |
|-------|------------------------------|---|---------------------|
| 19    | Drain Improvement            | Improvement of drains starting from the Kazi Bari Dhal to the Hospital Bridge via the graveyard-Cha Bagan road culvert and other construction of RCC drains   | 49.50               |
| 20    | Transport, Road              | (a) Improvement of the BC Road with a RCC drain from the Dhaka-Pubile Road to Changer Ghat via Morkun-Maruka-Harbaid.<br>(b) Construction of the Maruka Bridge.<br>(c) Construction of the Harbaid Changer Ghat to Somorshing Village Connecting Bridge | 33.70               |
| 22    | Transport, Road              | Road improvements from the Dhaka-Mymensing Road at Board Bazar to Joydebpur Choirasta Road at Tin Sorak of BRRRI via Bot Tola-Jajor Bazar-Jogi Tola Road  | 15.50               |
| 23    | Transport, Road              | Improvement of the Tongi-Vadam Road with BC work & RCC drains   | 17.50               |
| 24    | Transport, Road              | Improvement of the Tongi-Sataish Main Road with BC work (up to Gutia) and RCC drains  | 18.00               |
| 25    | Drain Improvement            | Construction of the Gazipur RCC drain outfall   | 8.00                |
| 26    | Transport                    | Improvement of the Vadam Central Mosque Road by BC work and others  | 8.08                |
| 27    | Transport, Drain Improvement | Reconstruction of Vakral-Gutia Road with a box culvert by HBB work and the other roads  | 21.00               |
| 28    | Transport, Road & Drain      | Improvement of the road from Silmon-Jogibari Tek to Pagar-Gopalpur Connector Road via Gofur Khan Road-Hahif Bapari School-graveyard by BC work and RCC drains   | 10.00               |
| 29    | Drain Improvement            | Construction of a RCC drain starting from the Barkot Sharani Road through the Bolli Baid to the Mogorkhal   | 25.00               |
| 30    | Drain Improvement            | Construction of the Morkun Graveyard RCC drains (Pagar Morkun Connecting Khal) and other drains   | 13.50               |
| 31    | WSS                          | Installation of production tube wells, pump houses, requisite electrical work and distribution pipeline   | 24.00               |
| Total |                              |   | 477.47              |

Note: Costs are estimated by the CC. The cost of Subproject No.2 includes the bridge section.

Source: ICGP Team

#### 9.2.4 Estimation and Adjustment

After the Stage 3 evaluation, costs of the shortlisted subprojects are re-evaluated after examining the basic design. Meanwhile, the total direct construction cost was adjusted within loan allocation after deducting indirect costs. For the selection of final candidates from the shortlist, the following aspects were carefully examined with information from the CC and field observations: (i) importance to the CC's development vision; (ii) strategic location and special connectivity; (iii) synergistic impact among the subprojects; (iv) feasibility at the basic design level; and (v) the overall priority score. In this stage, specific work activities are subject to reconsideration – thus minor activities such as simple rehabilitation and branch sections in subprojects may be omitted here.

**Table 9-8: Selected Subprojects after Estimation**

| No.          | Sector            | Subproject Name   | Cost (Crore BDT) |
|--------------|-------------------|---|------------------|
| 2            | Transport, Road   | Construction of RCC drain along the side of Nowzour to Zirani Bazar road  | 38.4             |
| 3            | Transport, Road   | Repair and widening of the BC Road with a RCC drain (up to shaker pool) from the Konabari Bus Stand to Norshingapur (Ashulia Connector Road)  | 14.1             |
| 4            | Transport, Road   | (a) Improvement of Bonomala Rail Gate Road to Dhaka–Mymensingh Road<br>(b) Improvement of Bonomala Sayed Mridha Connector Road to the Pubail Connector Road behind Tongi Thana<br>(c) Repairing & Widening of Road from Vanuya to Banomala rail crossing via Joydebpur–Dhirasram, Haydarabad. | 48.2             |
| 5            | Transport, Road   | Improvement of the road from Bilaspur Bot-tola to Salna Bazar (Dhaka–Mymensingh Connector Road).  | 21.4             |
| 8            | Transport, Road   | Repair and widening of the BC Road from the Mazu Khan Bazar to the Meghdubi Bypass Road at Pubail   | 4.6              |
| 12           | Transport, Road   | Road improvements by carpeting with RCC drains from Kashimpur Bazar to the Sreepur Bus Stand  | 20.5             |
| 13           | Transport, Road   | Repair and widening of the BC Road from the Porabari Bazar along the Dhaka–Mymensingh Road to the Salna Bazar along the Dhaka-Mymensingh Road via Jolarpar Bazar–Karkhana Bazar & Jolarpar Bazar–Master Bari Bazar  | 28.1             |
| 17           | Drain Improvement | Construction of a RCC/pipe drain from Chowrasta to Chilai Khal via Telipara-Bariali   | 4.8              |
| 31           | WSS               | Installation of production tube wells, pumps house, necessary electrical work and distribution pipe line  | 14.2             |
| 23           | Transport         | Improvement of the Tongi–Vadam Road with BC work & RCC drains   | 19.9             |
| 24           | Transport         | Improvement of the Tongi–Sataish Main Road with BC work (up to Gutia) and RCC drains  | 19.7             |
| 19           | Drain Improvement | a) Construction of RCC drain from Dhaka-Mymensingh highway to Dhaka bypass road via Gorib & Gorib factory & vogra bazar<br>b) Construction of RCC drain from Mogorkhal to Kadda-Turag Khal along Dhaka By pass road   | 19.3             |
| 7            | Transport         | (a) Repair of the BC Road from Shibbari Moor to Joorpukur<br>(b) Repairing & widening of BC road Joorpukur to Titterkul   | 10.6             |
| 20           | Transport         | Repairing & Widening of BC road from Dhaka-Pubail road at Markun K2 factory to Harbaid Bazar via Maruka & Construction of Maruka Bridge.  | 9.9              |
| 27           | Transport         | Repairing & Widening of Kha para road (Dhaka-Mymensingh road to Tilargati road) by BC work and construction of RCC drain along side of Kha para road last part (up to Tilargati road)   | 16.3             |
| <b>Total</b> |                   |   | <b>289.9</b>     |

Note: Cost is estimated as of the end of November 2013.

Source: ICGP Team

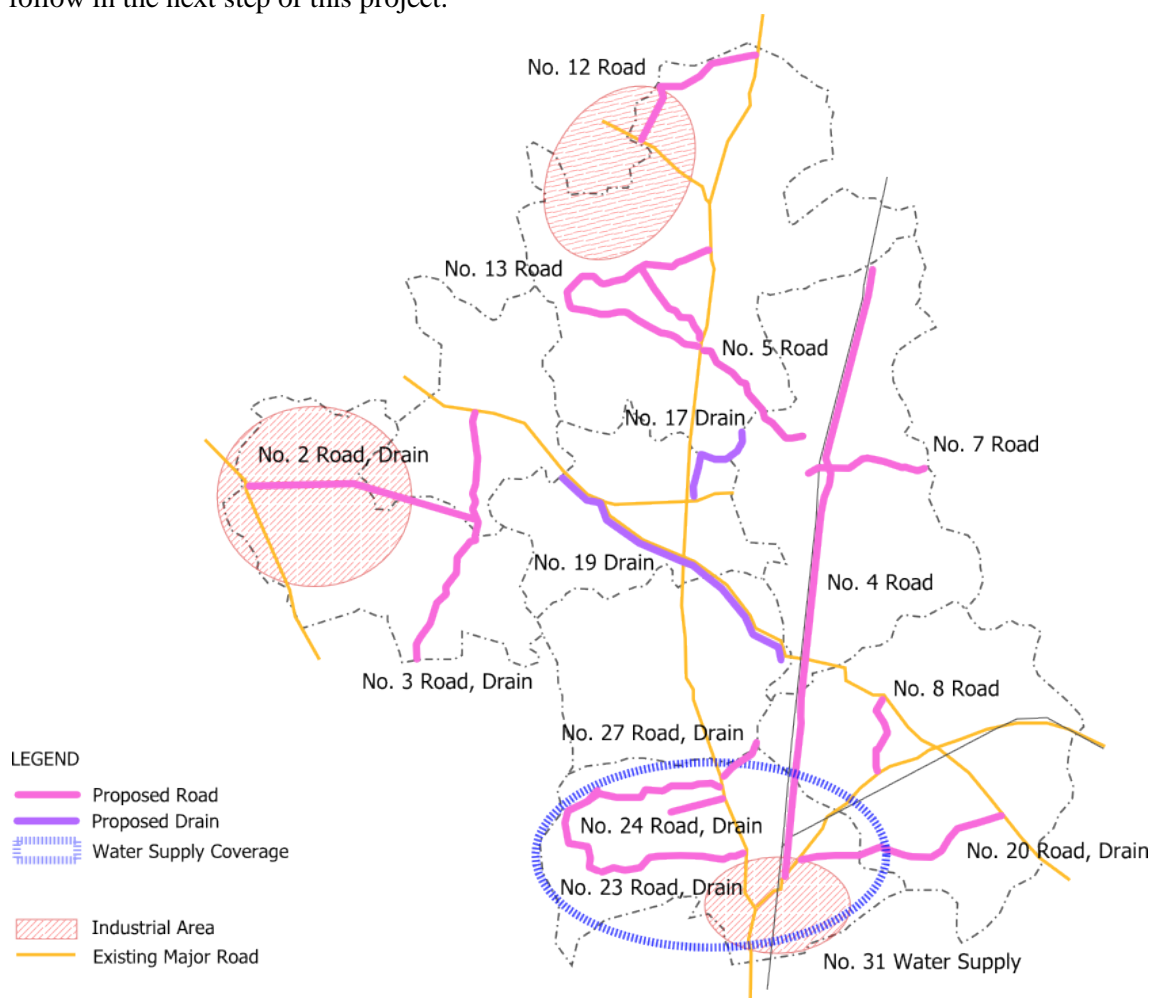
Other than above, “Repairing & Widening of BC road and construction of RCC drain from Kashimpur to Sreepur connecting road (Up to Mother textile)”, “Repairing & Widening of BC road and construction of RCC drain from Maleker bari (Dhaka-Mymensingh Highway) to Bashan sarak via Ojerpara & Haque Market”, and “Repairing & Widening of Joybangla road by BC work (Barobari to Maghdubi bypass via Akkas marker) and construction of RCC drain along side of Joybangla road (Barobari to Bogartak bridge)” are in the reserve list.

**Table 9-9: Sector-wise Summary of Selected Subprojects**

| Sub-component       | Item                                      | Quantity |
|---------------------|---|----------|
| Transport           | Road improvement                          | 93.0 km  |
|                     | Roadside drain                            | 25.5 km  |
| Drain Improvement   | Drain improvement (primary and secondary) | 8.8 km   |
| Water Supply System | Tube well installation                    | 9 nos.   |
|                     | Pipeline installation                     | 30 km    |

Source: ICGP Team

The figure below shows the CC’s geography, existing infrastructure, priority areas, and location of the final subprojects in this stage. More detailed spatial examination with mapping will follow in the next step of this project.



Source: ICGP Team

**Figure 9-1: Location of Short Listed Subprojects**

## Chapter 10 Baseline Survey and Economic Analysis

This chapter summarizes the results of the baseline survey and economic analyses for selected subprojects of ICGP for GCC.

### 10.1 Baseline Survey and Target for Performance Indicator

The sectors of the subprojects of ICGP for GCC are as follows.

- Road/Bridge
- Drain Improvement
- Water Supply

The results of the baseline survey are summarized by sector.

#### (1) Road/Bridge

##### 1) Contents

The selected subprojects for road/bridge are as follows.

**Table 10-1: Selected GCC Road/Bridge Subprojects**

| No. | Name of the Subprojects  | Category          |
|-----|--|-------------------|
| 2   | Construction of roads with drains from the Zirani Bazar (Chandana-Nobinagar Connector Road) to Islampur Kashimpur Road   | 2) Connector Road |
| 3   | Repair and widening of the BC Road with a RCC drain (up to shaker pool) from the Konabari Bus Stand to Norshingapur (Ashulia Connector Road)   | 2) Connector Road |
| 4   | (a) Improvement of road from the Bhawal–Gazipur Rail Station to the Tongi–Pubail Connector Road (on the east side of the Tongi Rail Station) via Joydebpur–Dhirasram–Bonomala Road<br>(b) Improvement of Bonomala Rail Gate Road to Dhaka–Mymensingh Road<br>(c) Improvement of Bonomala Sayed Mridha Connector Road to the Pubail Connector Road behind Tongi Thana | 2) Connector Road |
| 5   | Improvement of the road from Bilaspur Bot-tola to Salna Bazar (Dhaka- Mymensingh Connector Road).  | 2) Connector Road |
| 8   | Repair and widening of the BC Road from the Mazu Khan Bazar to the Meghdubi Bypass Road at Pubail  | 3) Local Road     |
| 12  | Road improvements by carpeting with RCC drains from Kashimpur Bazar to the Sreepur Bus Stand   | 3) Local Road     |
| 13  | Repair and widening of the BC Road from the Porabari Bazar along the Dhaka–Mymensingh Road to the Salna Bazar along the Dhaka-Mymensingh Road via Jolarpar Bazar-Karkhana Bazar & Jolarpar Bazar-Master Bari Bazar   | 3) Local Road     |

Source: ICGP Team

Considering the location and users of the road/bridge, the ICGP Team categorized the subprojects into three categories: (i) city roads; (ii) connector roads between city and local areas; and (iii) local road. The results are shown in Table 10-1.

##### 2) Traffic Count Survey

To evaluate the current traffic situation, a traffic count survey was conducted. As there are many roads in the subprojects, one traffic survey for each road category was conducted. As all

subprojects belong to either the Connector Road or Local Road categories, two traffic count surveys were conducted as a baseline survey for these road/bridge projects. The survey was for one weekday (from 6:00AM to 10:00PM) at specific locations.

The results are as follows:

**Category:** Connection Road between city area and local area

**Location:** Bhawal Gazipur Rail Station to Tongi – Pubail Connector Road

**Date:** 2013 Nov. 17

**Count Result**

**Table 10-2: Traffic Count Survey Results (Connector Road)**

| Time          | Motorized Vehicles (MT) |    |          |    |          |     |                          |       | Non-Motorized Vehicles (NM)               |       | Total    |           |          |
|---------------|-------------------------|----|----------|----|----------|-----|--------------------------|-------|---|-------|----------|-----------|----------|
|               | 1<br>Truck              |    | 2<br>Bus |    | 3<br>Car |     | 4<br>CNG / Auto Rickshaw |       | 5<br>Bicycle / Rickshaw / Van / Push Cart |       | Total MT | Total NMT | G. Total |
|               | From                    | To | From     | To | From     | To  | From                     | To    | From                                      | To    |          |           |          |
| 06:00-07:00   |                         |    |          |    | 4        | 2   | 19                       | 20    | 34  | 31    | 45       | 65        | 110      |
| 07:00-08:00   |                         |    |          |    | 7        | 6   | 27                       | 28    | 33  | 40    | 68       | 73        | 141      |
| 08:00-09:00   | 9                       | 6  |          |    | 10       | 11  | 39                       | 45    | 35  | 50    | 120      | 85        | 205      |
| 09:00-10:00   | 8                       |    | 1        |    | 11       | 12  | 65                       | 68    | 62  | 65    | 165      | 127       | 292      |
| 10:00-11:00   | 9                       |    | 3        |    | 12       | 5   | 73                       | 65    | 71  | 76    | 167      | 147       | 314      |
| 11:00-12:00   | 5                       | 2  |          |    | 7        | 4   | 107                      | 104   | 99  | 68    | 229      | 167       | 396      |
| 12:00-13:00   | 4                       |    |          |    | 17       | 5   | 95                       | 86    | 88  | 87    | 207      | 175       | 382      |
| 13:00-14:00   | 3                       | 2  |          |    | 4        | 3   | 104                      | 99    | 54  | 59    | 215      | 113       | 328      |
| 14:00-15:00   |                         |    |          |    | 20       | 17  | 82                       | 70    | 75  | 106   | 189      | 181       | 370      |
| 15:00-16:00   | 2                       | 3  |          |    | 8        | 5   | 91                       | 87    | 72  | 97    | 196      | 169       | 365      |
| 16:00-17:00   | 7                       | 2  |          |    | 7        | 2   | 81                       | 91    | 71  | 117   | 190      | 188       | 378      |
| 17:00-18:00   | 3                       |    |          |    | 6        | 15  | 82                       | 91    | 80  | 102   | 197      | 182       | 379      |
| 18:00-19:00   | 4                       | 1  |          | 1  | 9        | 7   | 86                       | 61    | 66  | 70    | 169      | 136       | 305      |
| 19:00-20:00   | 1                       |    |          |    | 3        | 7   | 67                       | 44    | 46  | 45    | 122      | 91        | 213      |
| 20:00-21:00   |                         | 1  |          |    | 11       | 1   | 54                       | 29    | 42  | 37    | 96       | 79        | 175      |
| 21:00-22:00   |                         |    |          |    | 1        | 1   | 23                       | 15    | 24  | 33    | 40       | 57        | 97       |
| Total one way | 55                      | 17 | 4        | 1  | 137      | 103 | 1,095                    | 1,003 | 952                                       | 1,083 | 2,415    | 2,035     | 4,450    |
| Total two way | 72                      |    | 5        |    | 240      |     | 2098                     |       | 2035                                      |       |          |           |          |



Category: Local Road  
Location: IUT Gate – Jajor Bypass “Local Road”  
Date: 2013 Nov. 18  
Count Result

**Table 10-3: Traffic Count Survey Results (Local Road)**

| Time          | Motorized Vehicles (MT) |    |          |    |          |     |                          |     | Non-Motorized Vehicles (NMT)         |       | Total    |           |          |
|---------------|-------------------------|----|----------|----|----------|-----|--------------------------|-----|--------------------------------------|-------|----------|-----------|----------|
|               | 1<br>Truck              |    | 2<br>Bus |    | 3<br>Car |     | 4<br>CNG / Auto Rickshaw |     | 5<br>Bicycle / Rickshaw / Van / Push |       | Total MT | Total NMT | G. Total |
|               | From                    | To | From     | To | From     | To  | From                     | To  | From                                 | To    |          |           |          |
| 06:00-07:00   | 2                       | 1  |          |    | 7        | 6   | 20                       | 21  | 103                                  | 81    | 57       | 184       | 241      |
| 07:00-08:00   | 5                       | 4  | 3        | 1  | 9        | 18  | 35                       | 32  | 158                                  | 153   | 107      | 311       | 418      |
| 08:00-09:00   | 4                       | 4  | 2        | 2  | 9        | 12  | 28                       | 22  | 182                                  | 188   | 81       | 370       | 451      |
| 09:00-10:00   |                         |    |          |    | 7        | 9   | 18                       | 22  | 159                                  | 158   | 56       | 317       | 373      |
| 10:00-11:00   | 4                       | 2  | 3        | 2  | 6        | 5   | 16                       | 14  | 188                                  | 170   | 52       | 358       | 410      |
| 11:00-12:00   |                         |    | 2        | 3  | 14       | 12  | 30                       | 27  | 184                                  | 156   | 88       | 340       | 428      |
| 12:00-13:00   |                         |    |          | 1  | 11       | 13  | 24                       | 24  | 202                                  | 169   | 73       | 371       | 444      |
| 13:00-14:00   |                         |    |          |    | 14       | 11  | 22                       | 18  | 167                                  | 158   | 65       | 325       | 390      |
| 14:00-15:00   | 1                       |    |          |    | 10       | 8   | 14                       | 13  | 155                                  | 145   | 46       | 300       | 346      |
| 15:00-16:00   | 3                       | 2  |          |    | 6        | 4   | 16                       | 14  | 101                                  | 92    | 45       | 193       | 238      |
| 16:00-17:00   | 2                       | 2  | 1        |    | 2        | 2   | 18                       | 14  | 112                                  | 96    | 41       | 208       | 249      |
| 17:00-18:00   | 2                       | 1  |          | 1  | 5        | 3   | 15                       | 12  | 130                                  | 115   | 39       | 245       | 284      |
| 18:00-19:00   | 5                       | 1  | 2        |    | 10       | 5   | 18                       | 21  | 104                                  | 110   | 62       | 214       | 276      |
| 19:00-20:00   |                         | 4  | 1        |    | 2        | 3   | 13                       | 17  | 93                                   | 110   | 40       | 203       | 243      |
| 20:00-21:00   | 4                       | 1  | 4        |    | 8        | 6   | 14                       | 16  | 79                                   | 104   | 53       | 183       | 236      |
| 21:00-22:00   | 3                       |    |          | 3  | 6        | 5   | 12                       | 13  | 80                                   | 74    | 42       | 154       | 196      |
| Total one way | 35                      | 22 | 16       | 13 | 126      | 122 | 313                      | 300 | 2,197                                | 2,079 | 947      | 4,276     | 5,223    |
| Total two way | 57                      |    | 29       |    | 248      |     | 613                      |     | 4276                                 |       |          |           |          |

### 3) Driving Time

To assess traffic congestion and existing conditions, the ICGP team conducted driving time surveys at two locations for the Connector Road and Local Road categories. Results were as follows:

#### Connector Road

- Time to drive 1.0 km (from point-to-point): **3.0 minutes**
- Survey location: **Near Bhawal Gazipur Rail Station**
- Date of survey: **17.11.2013**

#### Local Road

- Time to drive 1.0 km (from point-to-point): **2.5 minutes**
- Survey location: **Near IUT Gate**
- Date of survey: **18.11.2013**

### 4) Target for Quantitative Indicator

- Traffic volume will increase by 20% two years after initiation.
- Driving time will decrease by 10% at two years after initiation.

## (2) Drainage

### 1) Contents

The selected drainage subprojects are as follows.

**Table 10-4: Selected GCC Drainage Subprojects**

| No. | Name of the Subprojects  |
|-----|--|
| 17  | Construction of a RCC/pipe drain from Chowrasta to Chilai Khal via Telipara-Bariali  |
| 19  | Improvement of drains starting from Kazi Bari Dhal to the Hospital Bridge via the grave yard-Cha Bagan road culvert and other construction of RCC drains |

Source: ICGP Team

## 2) Current Situation

As shown in Chapter 2, natural drainage from the GCC area typically occurs in the following manner – the Lakshmipur Khal that originates northwest of Gazipur PS flows towards the east and southeast and crosses the Dhaka Mymensingh Highway and rail line, before falling to Chilai Khal. Another big khal, Chenainodi Khal, originates from Chapuli and Bhurulia Mouzas, and flows past the eastern side of the PS and meets the outfall of the Gazipur PS. Natural drainage flows from the northwest to the southeast by the Tongi khal (a distributor of the Banar River) through its tributaries.

These represent the principal natural drainage arteries of the GCC area. The Gazipur area consists of the Lakshmipur Khal, Chilai Khal and Chetal Khal Nadi. In addition to these canals, there are large ponds, bodies of water and lowland areas in the south and southeast that influence drainage of the CC area. The drainage flow after passing through the aforementioned canals reaches the lowlands of Beel Belat, Pubail and Kayser Mouzas. On the other hand, There are three khals in Tongi area (Tongi Khal, Hyderabad Khal and Vadam Khal) and 92.0 km of man-made drains in the CC.

### Description of Drainage System

A drain is a structure that carries water from surrounding area. The majority of the water carried by drains is produced from rainfall runoff. Drains are classified into three categories – primary, secondary and tertiary drains.

- Primary drains are larger in size and may serve a more extensive drainage area. A primary drain may connect several secondary drains. A primary drain may be built of brickwork, RCC and concrete, as well as be of variable shape (rectangular, triangular, and trapezoidal in section).
- Secondary drains are smaller than primary ones and serves smaller areas. Secondary drains are made of brick or reinforced concrete. A secondary drain connects several tertiary drains.
- Tertiary drains are smaller than secondary ones and normally the smallest drains in the system. Tertiary drains are normally built of brick.

The lengths of drains in the Tongi PS include Gacha and Pubail total some 63.5 km in the CC. This includes 29.0 km of brick drains, 9.5 km of RCC drains and 25 km of earthen drains, respectively. Of this, old (drains) account for 28.5 km, while canals account for 23.77 km in the Gazipur PS. There are no rivers in Gazipur PS.

**Table 10-5: Length of Existing GCC Drainage System**

| <u>Drain Condition (the Former Tongi PS)</u> |                    |
|--|--------------------|
| <b>Drain Type</b>                            | <b>Length (km)</b> |
| Brick Drain                                  | 29.0               |
| RCC Drain                                    | 9.5                |
| Earthen Drain                                | 25.0               |
| <b>Total</b>                                 | <b>63.50</b>       |

Source: *Tongi PS, At a Glance*, 2011

| <u>Drain Condition (the Former Gazipur PS)</u> |                    |
|--|--------------------|
| <b>Type</b>                                    | <b>Length (km)</b> |
| Drain  | 28.50              |
| Open Canal                                     | 23.77              |

Source: *Gazipur PS, At a Glance*, 2011

### Major Problems

In the GCC area, flooding is a serious problem during moderate to heavy rain. The problem is from a lack of roadside drains and the secondary drain connections with the outfall. Encroachment on canals and indiscriminate filling of low-lying areas without proper drainage channels has also contributed to the problem.

The drainage system that exist in the CC area are inadequate to handle surface runoff properly. Blockage of drains may continue to worsen with urban sprawl development. Faulty design, solid waste and rubbish dumping, encroachment and unauthorized structures, siltation, as well as the lack of repair and re-excavation are principal causes of blockage. The outlets of these drainage networks are mainly connected to natural channels or canals. The conditions of these natural canals (i.e., Chelai Khal, Tongi Khal, Hyderabad Khal and Vadam Khal) are dilapidated due to unauthorized encroachment. These canals will become silted and generate blockage.

#### 3) Information as baseline

- Days of disturbance by flooding: 30 days/year (based on feedback from more than 20 residents per flooded area)
- Number of residents in flooded areas: 300,000 (based on statistical data)

#### 4) Target for Quantitative Indicator

- Days of disturbance from flooding will decrease by 20% two years after initiation.
- Number of residents in the flooded areas will decrease 20% two years after initiation.

### **(3) Water Supply**

#### 1) Contents

The selected water supply subprojects are as follows.

**Table 10-6: Selected GCC Water Supply Subprojects**

| <b>No.</b> | <b>Name of the Subprojects</b>   |
|------------|--|
| 31         | Installation of production tube wells, pumps house, necessary electrical work and distribution pipe line |

Source: ICGP Team

## 2) Information as Baseline

The GCC is self-sustained. The existing population is high and the current water supply system cannot meet demand. To fulfill current demand, the CC has proposed a distribution network with 30 km of pipelines (13 km of 150 mm, 13 km of 200 mm and 4 km of 250 mm diameter pipelines) as well as nine production tube wells.

According to the BBS 2011, there are 391,881 households and 1,599,006 residents in the GCC. Water is supplied to 133,067 households or about 665,335 residents. Within the CC area, the average daily consumption of water is about 130 LPCD.

## 3) Target for Quantitative Indicator

- Water supply will fulfill designed volume two years after initiation.
- Water supply coverage will increase to 80% in the target areas two years after initiation.

## 10.2 Economic Analysis

The results of the economic analysis are summarized by sector.

### (1) Road/Bridge

Quantitative analysis is applied to the road/bridge subprojects.

#### 1) Benefit

Benefits in the following:

- Travel time savings for those using roads improved by the road/bridge subprojects.

#### 2) Assumptions

- Operation period: 30 years
- Subprojects No. 3, 8, 12 and 13 will begin operating in 2016, while others will begin in 2019.
- Operation and maintenance cost: 3% of initial investment
- Travel time savings after subproject completion: 1.2 min/km for Connector Roads and 1.0 min/km for Local Roads (assessed against current conditions)
- Cost for an average person: 1.01 BDT/person\*min (based on statistical data)
- Number of users: 21,075 persons/day for Connector Roads, and 21,000 persons/day for Local Roads (based on the results of traffic surveys)

#### 3) Result

Based on the assumptions mentioned above, the Economic Internal Rate of Return (EIRR) of the subprojects is 22.78%. As the EIRR exceeds 12%, the typical social discount rate and a threshold rate for economic analysis, these subprojects can be considered economically feasible.

### (2) Drainage

Qualitative analysis is applied to the drainage subprojects.

The sustainable urban infrastructure project will better integrate urban residents into the economic growth process by removing impediments - especially through the integration of urban areas with the livelihoods of the poor. The subproject will improve residential access to

services such as health, education and a wide range of secondary and tertiary jobs. It will generate two types of benefits:

- Direct benefit from travel time savings, enhanced marketing facilities and commercialization of productive activities.
- Indirect benefits will accrue from economic benefits that cannot be quantified. For instance, the project will foster institutional development in the intervention area that promotes equitable distribution of economic and non-economic benefits.

The CC area mentioned above is inundated for about 30 days each rainy season (based on drainage blockage information). The rainy season lasts for three or more months per year. Apart from residents, visitors often come to the city during the day to work in various industrial concerns. This influx of visitors increases the pressure on the drainage system. Consequently, environmental impacts and flooding may increase.

Residents of the Chelai Khal, Tongi Khal, Hyderabad Khal and Vadam Khal are impacted the most from flooding during the rainy season. Gradual urbanization and development of unauthorized land possession and construction are responsible for the current flooding conditions in the area. Many people has migrated from surrounding villages and settled within the CC area. As a result, population density has increased creating additional pressure on the drainage system and generating environmental impacts and likely worsening flooding. By minimizing flooding and thus lost travel time and productivity, residents will be able benefit in multiple ways including socially and economically.

### **(3) Water Supply**

Quantitative analysis is applied to the water supply subprojects.

#### 1) Benefit

Benefits include the following:

- Time saving of residents subproject areas by easily obtaining water from a supply system rather than from wells or other sources

#### 2) Assumptions

- Operation period: 20 years
- Subproject No. 31 will start its operation from 2017.
- Operation and maintenance cost: 5% of initial investment
- Time savings after the subprojects are completed: 3 min/person (based on assumptions about the lifestyle of residents)
- Cost for an average person: 1.01 BDT/person\*min (based on statistical data)
- Number of served residents: 665,335 person (based on statistical data)

#### 3) Result

Based on the assumptions mentioned above, the EIRR of the subprojects is 515.07%. As the EIRR exceeds 12%, the typical social discount rate and a threshold rate for economic analysis, this project can be considered economically feasible.

## Annex D-1: Inclusive List of Infrastructure Development

### 1) Sector - Drain Improvement

| Sl. No. | Sub-Sector | Name of scheme   | Work Category    | Level of Work   | Location      |           | Unit | Qty. | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|------------|--|------------------|-----------------|---------------|-----------|------|------|--------------|----------------|---|----------------|
|         |            |  |                  |                 | Area Name     | No on map |      |      |              |                |   |                |
| 1       | 2          | 3  | 4                | 5               | 6             | 7         | 8    | 9    | 10           | 11             | 12  | 13             |
| 1       | Drain      | Construction of RCC drain from west side of Zumur Cinema hall to Chilai khal via Neyamot Sarak.                                  | New Construction | Secondary drain | Ward 26       | G11       | m    | 1200 | 2.00         | N/A            | New Construction No acquisition of land No resettlement | JICA           |
| 2       | Drain      | Improvement of drain starting from Kazi bari Dhal to Hospital bridge via grave yard-Cha Bagan road culvert.                      | New Construction | Secondary drain | Ward 27,28,29 | G12       | m    | 2000 | 2.20         | N/A            | New Construction No acquisition of land No resettlement | JICA           |
| 3       | Drain      | Constructin of RCC drain starting from Dhaka-Tangail road near REB Office to south side Jarun moor.                              | New Construction | Secondary drain | Ward 6, 9     | KAS-1 1   | m    | 2200 | 16.00        | N/A            | New Construction No acquisition of land No resettlement | JICA           |
| 4       | Drain      | Construction of RCC drain both side from Kashimpur Jitar moor to Jirani bazar.   | New Construction | Primary drain   | Ward 1,3,6    | KAS-1 2   | m    | 7000 | 16.00        | N/A            | New Construction No acquisition of land No resettlement | JICA           |
| 5       | Drain      | Construction of RCC drain both side from BADC mour to Sripur bus stand.  | New Construction | Primary drain   | Ward 2,3,6    | KAS-1 3   | m    | 7000 | 3.50         | N/A            | New Construction No acquisition of land No resettlement | JICA           |
| 6       | Drain      | Construction of RCC darin with covered slab starting from mokmul mridha house to moloy Nondi house via Mojid house at Kashimpur. | New Construction | drain           | Kashimpur     | KAS-1 6   | m    | 1500 | 1.50         | N/A            | New Construction No acquisition of land No resettlement | JICA           |
| 7       | Drain      | Construction of RCC drain at Parijat housing area at Konabari.   | New Construction | Primary drain   | Konabari      | KON-20    | m    | 3000 | 2.00         | N/A            | New Construction No acquisition of land No resettlement | JICA           |
| 8       | Drain      | Construction of RCC drain with covered slab starting from by-mile bridge to the Kader Market mour at Konabari.                   | New Construction | Secondary drain | Konabari      | KON-21    | m    | 2000 | 5.00         | N/A            | New Construction No acquisition of land No resettlement | JICA           |
| 9       | Drain      | Construction of RCC drain both side of the Dhaka-Tangail road to north side rail line.   | New Construction | Primary drain   | Konabari      | KON-22    | m    | 4000 | 26.00        | N/A            | New Construction No acquisition of land No resettlement | JICA           |
| 10      | Drain      | Construction of RCC drain both side of the Konabari bus-stand to Kadda bridge.   | New Construction | Primary drain   | Konabari      | KON-23    | m    | 3500 | 2            | N/A            | New Construction No acquisition of land No resettlement | JICA           |
| 11      | Drain      | Construction of RCC darin with covered slab starting from mokmul mridha house to moloy Nondi house via Mojid house at Kashimpur. | New Construction | drain           | Kashimpur     | KAS-1 5   | m    | 1500 | 2.5          | N/A            | New Construction No acquisition of land No resettlement | JICA           |

| Sl. No. | Sub-Sector | Name of scheme   | Work Category                | Level of Work    | Location   |           | Unit | Qty. | Cost (Crore) | Previous study | Description  | Source of Fund |
|---------|------------|--|------------------------------|------------------|------------|-----------|------|------|--------------|----------------|--|----------------|
|         |            |  |                              |                  | Area Name  | No on map |      |      |              |                |  |                |
| 1       | 2          | 3  | 4                            | 5                | 6          | 7         | 8    | 9    | 10           | 11             | 12   | 13             |
| 12      | Drain      | Cosntruction of RCC drain from vogra bazar to Dhaka-Mymensing highway via Gorib & Gorib factory          | New Construction             | Secondary drain  | ward-15    | BAS-3     | m    | 1200 | 3.65         | N/A            | New Construction No acquisition of land No resettlement                        | JICA           |
| 13      | Drain      | Construction of RCC drain starting from the Barkot Sharani road through the Bolli Baid to the Mogorkhal. | New Construction             | Secondary drain  | ward-17    | BAS-13    | m    | 2000 | 25           | N/A            | New Construction No acquisition of land No resettlement                        | JICA           |
| 14      | Drain      | Construction of RCC drain at Chourasta Ulka Cinema hall to T&T boundary wall.                            | New Construction             | Secondary drain  | ward-18    | BAS-14    | m    | 2000 | 8            | N/A            | New Construction No acquisition of land No resettlement                        | JICA           |
| 15      | Drain      | Construction of RCC drain at Mogorkhal at the side of bypass road.                                       | New Construction             | Primary drain    | ward-17    | BAS-15    | m    | 5000 | 25.00        | N/A            | New Construction No acquisition of land No resettlement                        | JICA           |
| 16      | Drain      | Construction of RCC drain at Bangla bazar east side.   | New Construction             | Secondary drain  | ward-22    | Kaw-43    | m    | 2000 | 3.50         | N/A            | New Construction No acquisition of land No resettlement                        | JICA           |
| 17      | Drain      | Construction of RCC darin at Naga pabna para Samsu's rice mill to north khal.                            | New Construction             | Secondary drain  | ward-19    | Kaw-44    | m    | 2000 | 3.50         | N/A            | New Construction No acquisition of land No resettlement                        | JICA           |
| 18      | Drain      | Re-Excavation of Chilai Khal   | Re-Excavation of Chilai Khal | New Construction | Ward 24,25 | -         | m    | 4000 | 5.00         | N/A            | New Construction No acquisition of land No resettlement                        | JICA           |
| 19      | Drain      | Construction of Morkun Graveyard RCC drain work.   | New Construction             | Drain & footpath | Tongi      | 10(a)     | m    | 1650 | 2.40         | N/A            | Construction of RCC Drain & footpath no acquisition of Land & no Resettlement. | JICA           |
| 20      | Drain      | Construction of Gazipura R.C.C drain (Out fall)  | New construction             | Drain            | Tongi      | 10(b)     | m    | 2000 | 11.00        | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement.            | JICA           |
| 21      | Drain      | Construction of Gazipura Mulluck hossain main road last part by R.C.C drain work.                        | New construction             | Drain            | Tongi      | 10(c)     | m    | 2000 | 3.60         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement.            | JICA           |
| 22      | Drain      | Construction of Kha Para to Mritti Bari Via Molla Bari Connecting Road by R.C.C drain work.              | New construction             | Drain            | Tongi      | 10(e)     | m    | 2000 | 4.00         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement.            | JICA           |
| 23      | Drain      | Construction of Vialla Tex to Nur Complex Via Khapara by R.C.C drain work.                               | New construction             | Drain            | Tongi      | 10(f)     | m    | 1200 | 3.00         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement.            | JICA           |
| 24      | Drain      | Construction of Mokter Bari road side by RCC drain work.   | New construction             | Drain            | Tongi      | 10(g)     | m    | 1200 | 2.30         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement.            | JICA           |
| 25      | Drain      | Construction of Naimuddin Molla  | New                          | Drain            | Tongi      | 10(h)     | m    | 3500 | 7.00         | N/A            | Construction of RCC Drain  | JICA           |

| Sl. No. | Sub-Sector | Name of scheme   | Work Category    | Level of Work | Location  |           | Unit | Qty.        | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|------------|--|------------------|---------------|-----------|-----------|------|-------------|--------------|----------------|---|----------------|
|         |            |  |                  |               | Area Name | No on map |      |             |              |                |   |                |
| 1       | 2          | 3  | 4                | 5             | 6         | 7         | 8    | 9           | 10           | 11             | 12  | 13             |
|         |            | Road side by RCC drain work.   | construction     |               |           |           |      |             |              |                | no acquisition of Land & no Resettlement.                           |                |
| 26      | Drain      | Construction of CollegeGate to Kamarpara Bridghe Road side by RCC drain work.                                    | New construction | Drain         | Tongi     | 10(i)     | m    | 5000        | 18.00        | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | JICA           |
| 27      | Drain      | Construction of Dattapara Bonomala Road side (Last Part) by RCC drain work.                                      | New construction | Drain         | Tongi     | 10(j)     | m    | 1500        | 2.75         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | JICA           |
| 28      | Drain      | Construction of South Khaikor Badsha Miah road by RCC drian work.  | New construction | Drain         | Gacha     | 11(a)     | m    | 3000        | 4.65         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | JICA           |
| 29      | Drain      | Construction of Shoheid Siddik Shordi by RCC drain work  | New construction | Drain         | Gacha     | 11(b)     | m    | 3000        | 4.65         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | JICA           |
| 38      | Drain      | Construction of Targas Fortuna Factory to Chandora Chowrasta road via Dulal Comissioner house by RCC Drain work. | New construction | Drain         | Gacha     | 11(k)     | m    | 3000        | 4.60         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | JICA           |
| 43      | Drain      | Construction of Bindan Balo Nody road side by RCC Drain work   | New construction | Drain         | Pubail    | 12(d)     | m    | 1000        | 1.75         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | JICA           |
| 45      | Drain      | Solid west cleaning for Drain  | Cleaning         | Cleaning      | Gazipur   |           | m    | 25000       | 6.00         | N/A            |   | JICA           |
| 46      | Drain      | Tongi Bazar Bahar Ali Tin Shop to River side drain.  | R.C.C Drain      | Drain         | Tongi     | D1        | m    | #####<br>## | 0.50         | N/A            | With cover slab   | GOB            |
| 47      | Drain      | Tongi Bazar Kazi Muzammel road side to Culvert.  | R.C.C Drain      | Drain         | Tongi     | D2        | m    | #####<br>## | 0.40         | N/A            | With cover slab   | GOB            |
| 48      | Drain      | Tongi Voran Hazi Jalil Khan road side drain and Arichpur Hasem houst to Arichpur Culvert.                        | R.C.C Drain      | Drain         | Tongi     | D3        | m    | #####<br>## | 0.60         | N/A            | With cover slab   | GOB            |
| 49      | Drain      | Auchpara Noimuddin mullah road side drain.   | R.C.C Drain      | Drain         | Tongi     | D4        | m    | #####<br>## | 1.00         | N/A            | With cover slab   | GOB            |
| 50      | Drain      | College Road to Safiuddin Acadamy link road (Abul hossain road side drain).                                      | R.C.C Drain      | Drain         | Tongi     | D5        | m    | #####<br>## | 0.30         | N/A            | With cover slab   | GOB            |
| 51      | Drain      | Safiuddin Acadamy School to Mukter bari road side drain.   | R.C.C Drain      | Drain         | Gazipur   | D6        | m    | #####<br>## | 0.4          | N/A            | With cover slab   | GOB            |
| 52      | Drain      | Dhaka-Gazipur road to Laxmipura via Ataullah Mondal House via Ideal Kinder Garden School.                        | R.C.C Drain      | Drain         | Gazipur   | D7        | m    | #####<br>## | 1.2          | N/A            | With cover slab   | GOB            |
| 53      | Drain      | Dhaka-Gazipur road to Upazila Laxmipura road via Intermax  | R.C.C Drain      | Drain         | Gazipur   | D8        | m    | #####<br>## | 0.8          | N/A            | With cover slab   | GOB            |



| Sl. No. | Sub-Sector | Name of scheme  | Work Category    | Level of Work | Location  |           | Unit | Qty.        | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|------------|---|------------------|---------------|-----------|-----------|------|-------------|--------------|----------------|---|----------------|
|         |            |   |                  |               | Area Name | No on map |      |             |              |                |   |                |
| 1       | 2          | 3   | 4                | 5             | 6         | 7         | 8    | 9           | 10           | 11             | 12  | 13             |
|         |            | Garments.   |                  |               |           |           |      |             |              |                |   |                |
| 54      | Drain      | a) Chandana cenema hall to Laxmipur road via Jamia Islamia Madrasa, b) Shib bari to Shaha para road             | R.C.C Drain      | Drain         | Gazipur   | D9        | m    | #####<br>## | 1            | N/A            | With cover slab   | GOB            |
| 55      | Drain      | Improvement of drain 2nd Phase Construcion work at Gazipura   | New construction | Drain         | Tongi     | D10       | m    | 420         | 1.89         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |
| 56      | Drain      | Improvement of Arichpur Mosque road RCC drain from Haji Market to Arichpur culvert and beside Gofur house road. | New construction | Drain         | Tongi     | D11       | m    | 770         | 1.00         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |
| 57      | Drain      | Improvement of drain on north side of Shatais road.   | New construction | Drain         | Tongi     | D12       | m    | 2700        | 4.32         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |
| 58      | Drain      | Improvement of drain from Arichpur Munshipara Anarkoli road to Goruhate road via Based Khan's house road.       | New construction | Drain         | Tongi     | D13       | m    | 600         | 0.78         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |
| 59      | Drain      | Improvement of drain from Board Bazar to Bottola via Siraj Chairman road  | New construction | Drain         | Gacha     | D14       | m    | 1700        | 2.21         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |
| 60      | Drain      | a) Improvement of drain from Gopalpur TNT Bazar to Morkun Graveyard road.                                       | New construction | Drain         | Tongi     | D15       | m    | 1400        | 1.82         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |
|         |            | b) Improvement of drain beside Pagar Abul hossain road.   | New construction | Drain         | Tongi     |           | m    |             |              |                |   |                |
|         |            | c) Improvement of drain from Pagar Augstin house to Hubert house.   | New construction | Drain         | Tongi     |           | m    |             |              |                |   |                |
| 61      | Drain      | Improvement of drain on West side of Sultan Commissioner house Mosque road to Gorahate Mosque road.             | New construction | Drain         | Pubail    | D16       | m    | 2800        | 0.98         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |
| 62      | Drain      | Improvement of drain from Shaheed Sundor Ali road at Dhaka-Mymensing road to Kohar doria river                  | New construction | Drain         | Tongi     | D17       | m    | 800         | 1.12         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |
| 63      | Drain      | Cleaning the sedimented soil and waste from drian and dispose it in a safe palce                                | Cleaning         | Drain         | Tongi     | D18       | m    | 18950       | 0.76         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |
| 64      | Drain      | Purchase 3nos dumper Truck (3 ton   | Purchase         | Drain         | Tongi     | D19       | Nos. | 3           | 1.20         | N/A            | Construction of RCC Drain   | ADB            |

| Sl. No. | Sub-Sector | Name of scheme   | Work Category    | Level of Work | Location  |           | Unit | Qty. | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|------------|--|------------------|---------------|-----------|-----------|------|------|--------------|----------------|---|----------------|
|         |            |  |                  |               | Area Name | No on map |      |      |              |                |   |                |
| 1       | 2          | 3  | 4                | 5             | 6         | 7         | 8    | 9    | 10           | 11             | 12  | 13             |
|         |            | Capacity) and on Excavator (small)   |                  |               |           |           |      |      |              |                | no acquisition of Land & no Resettlement.                           |                |
| 65      | Drain      | Construction of RCC Drain start from Shibbari to Fishery Bhaban (Ch.0 - 800m); b) Construction of RCC Drain start from Shibbari to Laxmipura (Rest Portion) (Ch.0 -1690m)  | New construction | Drain         | Gazipur   | D20       | m    | 2490 | 8.3          | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |
| 66      | Drain      | Construction of RCC Drain starts from Gazipur Bus Terminal to Railway Bridge (West Side of the road) (Ch. 0 - 870m); and (b) Construction of RCC Drain Starts from BMTF High School to Railway Borowpit (West side of the road) (Ch. 0-1629 m)   | New construction | Drain         | Gazipur   | D21       | m    | 2499 | 6.63         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |
| 67      | Drain      | Construction of RCC Drain starts from Left side of Shahid Srity School via Chandra Cinema Hall road Newly Constructed UGIIP drain. (Ch. 0-531m); Construction of RCC Drain starts from South of the Shahid Srity School road Lakkipara to Chandra Cinema Hall (Ch. 0-660m); and Construction of RCC Drain Start South of the Shahid Srity School road Lakkipara to Box Culvert. (Ch. 0-193m) | New construction | Drain         | Gazipur   | D22       | m    | 1384 | 2.80         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |
| 68      | Drain      | Construction of RCC Drain start form Shibbari Afazbhaban to Hospital road Bridge via Rail Bridge (Ch. 0-985m)  | New construction | Drain         | Gazipur   | D23       | m    | 985  | 5.87         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |
| 69      | Drain      | Construction of RCC drain start from Bottola mour to Railway Bridge (East Side of the road) (Ch. 0 – 500m); Construction of RCC drain start from BMTF High School to Railway Borrow pit (East Side of the road) (Ch. 0-1952 m); and Construction of RCC drain start from Bilashpur Mosque to Railway   | New construction | Drain         | Gazipur   | D24       | m    | 3052 | 5.74         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |

| Sl. No. | Sub-Sector | Name of scheme  | Work Category    | Level of Work | Location  |           | Unit | Qty. | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|------------|---|------------------|---------------|-----------|-----------|------|------|--------------|----------------|---|----------------|
|         |            |   |                  |               | Area Name | No on map |      |      |              |                |   |                |
| 1       | 2          | 3   | 4                | 5             | 6         | 7         | 8    | 9    | 10           | 11             | 12  | 13             |
|         |            | Borrow pit (Ch. 0-600 m)  |                  |               |           |           |      |      |              |                |   |                |
| 70      | Drain      | Construction of RCC Drain start from Nur General Store to Harinal road Box Culvert via Zorpukur. (Ch. 0 - 533m); Construction of RCC Drain start from Nur General Store to Shasan Ghat Bridge. (Ch. 0 - 526m); Construction of RCC Drain start from Shaheed Waliullah road UGIIP drain to Chirni Khal. (Ch. 600 - 889m); Construction of RCC Drain start from Shasan road to Kali Sikdar Ghat. (Ch. 0 - 338m); Construction of RCC Drain start from Gias house to Zorpukur Shasan road at Sunu mia house. (Ch. 0 - 350m) ; Construction of RCC Drain start from Nuru mia house to Khan villa. (Ch. 0 - 62m); and Construction of RCC Drain start from Nuru mia house to Zorpukur Shasan road Ugiip drain. (Ch. 0 - 64m) | New construction | Drain         | Gazipur   | D25       | m    | 2162 | 4.51         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |
| 71      | Drain      | Construction of RCC drain from Zorpukur Mosque to Joydevpur Pubail road via A.K.M Mozammal Hoque MP'S house (Ch. 0 - 331m); Construction of RCC drain start from Dr. Lutfar Rahman's house to Madhobbari road via Alauddin's house (Ch. 0 - 250m); Construction of RCC drain start from Shohel's Shop to Bangalgas Bridge (Ch. 0 - 300m); and Construction of RCC drain in Ordinance Factory at Gazipur (Ch. 0 - 1134m)   | New construction | Drain         | Gazipur   | D26       | m    | 2015 | 3.82         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |
| 72      | Drain      | Construction of RCC Drain start from Alya General Store via Bilaspur road to Bankers road to Ugiip drain. (Ch. 0 -700m); Construction of RCC Drain start from H/O Mr. Samur to Montaz Mohila Madrasha. (Ch. 0 -   | New construction | Drain         | Gazipur   | D27       | m    | 2416 | 4.36         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB            |

| Sl. No. | Sub-Sector | Name of scheme  | Work Category    | Level of Work | Location  |           | Unit | Qty. | Cost (Crore) | Previous study | Description   | Source of Fund   |
|---------|------------|---|------------------|---------------|-----------|-----------|------|------|--------------|----------------|---|------------------|
|         |            |   |                  |               | Area Name | No on map |      |      |              |                |   |                  |
| 1       | 2          | 3   | 4                | 5             | 6         | 7         | 8    | 9    | 10           | 11             | 12  | 13               |
|         |            | 90m);Construction of RCC Drain start from East Chandana Madrasa more to Kazipara Khal (Outfall-1) (Ch. 0 - 260m);Construction of RCC Drain start from East Side of Dhirassam road East Chandana Madrasa more to North Side of Graveyard side Khal (Outfall-2) (Ch. 0 - 474m);Construction of RCC Drain start from West Side of Dhirassam road Existing drain to Graveyard side Khal (Outfall-2) (Ch. 0 - 291m);Construction of RCC Drain start from East Side of Dhirassam road from Zilla Parisad Pond more to Graveyard side Khal (Outfall-2) (Ch. 0 - 208m) (Link);Construction of RCC Drain start from West Side of Dhirassam road from Zilla Parisad Pond more to Graveyard side Khal (Outfall-2) (Ch. 0 - 200m) (Link-1); andConstruction of RCC Drain start from West side of Pourashava Gate to Zilla Parisad Pond more (Outfall-3) (Ch. 0 - 193m). |                  |               |           |           |      |      |              |                |   |                  |
| 73      | Drain      | Construction of RCC Drain start from BIDC road to West Bhurulia Jonokallayan Office along Abul Hossain road (Ch.0- 568m); Construction of RCC Drain start from BIDC road to Raij Uddin on North Side of DUET (Ch. 0 - 358m); and Construction of RCC Drain start from Shahid Raishuddin road to BIDC road via Talukdarpara (Ch. 0 - 937m)   | New construction | Drain         | Gazipur   | D28       | m    | 926  | 3.07         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | ADB              |
| 30      | Drain      | Construction of Gacha main road (Dhaka-Mymensing road to Polashona ) By RCC drian work.   | New construction | Drain         | Gacha     | 11(c)     | m    | 4000 | 6.00         | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | GCC Own Fund/ADP |
| 31      | Drain      | Construction of Board Bazar IUT   | New              | Drain         | Gacha     | 11(d)     | m    | 2000 | 3.00         | N/A            | Construction of RCC Drain   | GCC Own          |

| Sl. No.               | Sub-Sector | Name of scheme  | Work Category    | Level of Work | Location  |           | Unit | Qty. | Cost (Crore)  | Previous study | Description   | Source of Fund   |
|-----------------------|------------|---|------------------|---------------|-----------|-----------|------|------|---------------|----------------|---|------------------|
|                       |            |   |                  |               | Area Name | No on map |      |      |               |                |   |                  |
| 1                     | 2          | 3   | 4                | 5             | 6         | 7         | 8    | 9    | 10            | 11             | 12  | 13               |
|                       |            | to Essor road by RCC drain work.  | construction     |               |           |           |      |      |               |                | no acquisition of Land & no Resettlement.                           | Fund/ADP         |
| 32                    | Drain      | Construction of Sign Board Boshor mill to Abbas commissioner hous road by BC and RCC drian work             | New construction | Drain         | Gacha     | 11(e)     | m    | 2000 | 3.00          | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | GCC Own Fund/ADP |
| 33                    | Drain      | Construction of Hawcon factory to Dagar Chanda road by RCC drain work.                                      | New construction | Drain         | Gacha     | 11(f)     | m    | 3000 | 4.50          | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | GCC Own Fund/ADP |
| 34                    | Drain      | Construction of Dagar Chala Chowrasta to Shakra urri road byRCC work.                                       | New construction | Drain         | Gacha     | 11(g)     | m    | 3000 | 4.50          | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | GCC Own Fund/ADP |
| 35                    | Drain      | Construction of Sign Board Jamir uddin Khan road by RCC drian work  | New construction | Drain         | Gacha     | 11(h)     | m    | 2000 | 3.00          | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | GCC Own Fund/ADP |
| 36                    | Drain      | Construction of Malaker Bari Show par ozar para by RCC Drain work.  | New construction | Drain         | Gacha     | 11(i)     | m    | 3000 | 4.50          | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | GCC Own Fund/ADP |
| 37                    | Drain      | Construction of Board Bazar to Zazor Road via Bot Tola Sheraj Chairman house road by RCC Drain work.        | New construction | Drain         | Gacha     | 11(j)     | m    | 3000 | 4.50          | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | GCC Own Fund/ADP |
| 39                    | Drain      | Construction of RCC drian starting from Dhaka- Mymensingh road haricar mur to zajor bazar via indesore Ltd. | New construction | Drain         | Gacha     | 11(l)     | m    | 2000 | 3.00          | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | GCC Own Fund/ADP |
| 40                    | Drain      | Construction of Nuru Bander house to Turag River (Out fall) by RCC Drain work.                              | New construction | Drain         | Tongi     | 12(a)     | m    | 700  | 1.75          | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | GCC Own Fund/ADP |
| 41                    | Drain      | Construction of Sataish Main road by RCC Drain work.  | New construction | Drain         | Tongi     | 12(b)     | m    | 4000 | 7.50          | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | GCC Own Fund/ADP |
| 42                    | Drain      | Construction of Khapara road last part by RCC drain work.   | New construction | Drain         | Tongi     | 12(c)     | m    | 3000 | 6.00          | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | GCC Own Fund/ADP |
| 44                    | Drain      | Construction of Tilargati road side by RCC Drain work   | New construction | Drain         | Tongi     | 12(e)     | m    | 4200 | 8.00          | N/A            | Construction of RCC Drain no acquisition of Land & no Resettlement. | GCC Own Fund/ADP |
| <b>Total amount =</b> |            |   |                  |               |           |           |      |      | <b>354.68</b> |                |   |                  |

## 2) Sector - Transport

| Sl. No. | Sub-Sector       | Name of scheme   | Work Category         | Level of Work    | Location      |           | Unit | Qty. | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|------------------|--|-----------------------|------------------|---------------|-----------|------|------|--------------|----------------|---|----------------|
|         |                  |  |                       |                  | Area Name     | No on map |      |      |              |                |   |                |
| 1       | Transport (Road) | Construction of fly over from Shibbari mour to Rathkhola.  | Fly over              | New Construction | Ward-26, 28   |           | m    | 800  | 70           | N/A            | New Construction No acquisition of land No resettlement     | JICA           |
| 2       | Transport (Road) | Repairing & Weidening of road from Shibbari to Titarkul.   | Repairing & Weidening | Secondary road   | Ward 26, 28   | G1        | m    | 3200 | 2.00         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 3       | Transport (Road) | Repairing & Weidening of road from Joydebpur Rani Bilashmoni Govt. School to Dhaka Bypass via Koler Bazar.   | Repairing & Weidening | Secondary road   | Ward 28,29,31 | G2        | m    | 6500 | 6.00         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 4       | Transport (Road) | Repairing & Weidening of road from Joydebpur- Haydarabad Shahid Ahasanullah Master Bridge.   | Repairing & Weidening | Secondary road   | Ward 27,28,31 | G3        | m    | 1100 | 30.00        | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 5       | Transport (Road) | (a) Repairing & Weidening of road from Joydebpur to Shashan road via Chakkar (b) Fanir tak to Chakkar.   | Repairing & Weidening | Secondary road   | Ward 28       | G4        | m    | 2500 | 1.50         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 6       | Transport (Road) | Repairing of road from BIDD bazar to Mohila ghat.  | Repairing             | Gali road        | Ward 24,25    | G5        | m    | 3000 | 1.50         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 7       | Transport (Road) | Repairing of Markes road (Bhawal Gazipur rail station).  | Repairing             | Secondary road   | Ward 25,28    | G6        | m    | 6000 | 20.00        | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 8       | Transport (Road) | Repairing of road by BC starting from Gazipur Mohila college to Pubail College gate.   | Repairing             | Secondary road   | Ward 28,30    | G7        | m    | 9000 | 8.00         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 9       | Transport (Road) | Improvement of road with Guide wall starting from Markas bridge to PWD office beside Chilai Khal.  | New Construction      | Tertiary road    | Ward 25,28    | G8        | m    | 4000 | 3.00         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 10      | Transport (Road) | Improvement of BC road with drain starting from BIDD road to west side of Choto bari.  | Repairing             | Gali road        | Ward 24,25    | G9        | m    | 1500 | 3.40         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 11      | Transport (Road) | (a) Repairing of carpeting road from Kashimpur Jitar moor to Jirani bazar. (b) Improvement of road by carpeting starting from Hair factory at Kashimpur to Danar gate. | New Construction      | Tertiary road    | Ward 1,3,6    | KAS-1     | m    | 7000 | 11.00        | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 12      | Transport (Road) | Improvement of road by carpeting from BADC mour to Sripur bus  | New Construction      | Tertiary road    | Ward 2,3,6    | KAS-2     | m    | 7000 | 11.00        | N/A            | Repairing of BC road No acquisition of land No              | JICA           |

| Sl. No. | Sub-Sector       | Name of scheme  | Work Category         | Level of Work | Location     |           | Unit | Qty.    | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|------------------|---|-----------------------|---------------|--------------|-----------|------|---------|--------------|----------------|---|----------------|
|         |                  |   |                       |               | Area Name    | No on map |      |         |              |                |   |                |
|         |                  | stand.  |                       |               |              |           |      |         |              |                | resettlement  |                |
| 13      | Transport (Road) | Improvement of road by BC at Hatimara starting from Lohakor Mazar road towards the west direction via house of Tufani at Gobindha bari to the Shafipur road at Lashkar chala.               | Repairing & Weidening | Gali road     | Ward 2       | KAS-3     | m    | 4500    | 4.83         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 14      | Transport (Road) | Improvement of road by BC at Hatimara starting from the house of Sorhab side by the mosque towards the south direction via house of Osman bapari to house of Fajal Chairman at Sardha gong. | Repairing & Weidening | Gali road     | Ward 3       | KAS-4     | m    | 2000    | 2.15         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 15      | Transport (Road) | Improvement of road by BC starting from the house of Moulana Khalilur rahaman at Hatimara via Hatimara north para Al Aksa jame Mosque to the Jirani road.                                   | Repairing & Weidening | Gali road     | Ward 5       | KAS-5     | m    | 2000    | 2.15         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 16      | Transport (Road) | Improvement of road by carpeting starting from Kazi Malek house to Shailodobi via GMS garments  | Repairing & Weidening | Gali road     | Ward 3,5     | KAS-6     | m    | 4000    | 3.50         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 17      | Transport (Road) | Repairing & Weidening of road from Hatimara road near Panishail moor to Madhabpur via Lahakor Mazar.  | Repairing & Weidening | Gali road     | Ward 3, 1, 2 | KAS-7     | m    | 4000    | 2.00         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 18      | Transport (Road) | Improvement of road by carpeting starting from Hatimara wast para Jame Mosque to south side house of Abdul Mazid.   | Repairing & Weidening | Gali road     | Ward 3       | KAS-8     | m    | 2000    | 1.50         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 19      | Transport (Road) | Improvement of road by carpeting starting from Konabai Jalkhana to Dowliabari via Chowrast Baganbari.   | Repairing & Weidening | Gali road     | Ward 3       | KAS-9     | m    | 2500    | 1.90         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 20      | Transport (Road) | Improvement of road by carpeting starting from Lohakoir Mazar road to Lohakoir East para Jame Mosque & Lohakoir Jakerpara Mosque GCC Last border.   | Repairing & Weidening | road          | Kashim-pur   | KAS-14    | m    | 2000.00 | 2.50         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 21      | Transport (Road) | (a) Improvement of road by carpeting starting from Kashimpur road to Standard   | Repairing & Weidening | Gali road     | Ward 3       | KON-1     | m    | 1700    | 1.33         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |

| Sl. No. | Sub-Sector       | Name of scheme  | Work Category         | Level of Work | Location    |           | Unit | Qty. | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|------------------|---|-----------------------|---------------|-------------|-----------|------|------|--------------|----------------|---|----------------|
|         |                  |   |                       |               | Area Name   | No on map |      |      |              |                |   |                |
|         |                  | Germents road. (b) Improvement of road by carpeting starting from Konabari Dhaka-Tangail road to M.M. Germents.   |                       |               |             |           |      |      |              |                |   |                |
| 22      | Transport (Road) | Improvement of road by carpeting starting from Ambag Moddhopara road to Sobesh Ali Jame Mosque.   | Repairing & Weidening | Gali road     | Ward 10     | KON-2     | m    | 1250 | 1.00         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 23      | Transport (Road) | (a) Repaing of road by carpeting starting from Konabari Notun bazar to Ambag road. (b) Improvement of road by carpeting at Konabari east para road.   | Repairing & Weidening | Gali road     | Ward 10,11  | KON-3     | m    | 2200 | 1.40         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 24      | Transport (Road) | Improvement of road by carpeting starting from Bymile Kashem cotton mill's 01 no. gate to Noyab Ali Academy.  | Repairing & Weidening | Gali road     | Ward 10, 11 | KON-4     | m    | 1550 | 1.20         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 25      | Transport (Road) | Repairing & Wedening of road by carpeting starting from Ma brick field at Ambag road to Rail line.  | Renovation            | Gali road     | Ward 12     | KON-5     | m    | 1500 | 1.48         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 26      | Transport (Road) | Improvement of road starting from Joyertak Giyas Uddin house to Dorod Munshi's house road via Rahajuddin's house.   | Renovation            | Gali road     | Ward 11     | KON-6     | m    | 1120 | 1.00         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 27      | Transport (Road) | (a) Improvement of road starting from Joyertak Afa's house to Hukum Master's house road via Motin's house. (b) Improvement of road starting from Meghlal Mosque to Kader Dewyan's house road. | Renovation            | Tertiary road | Ward 11     | KON-7     | m    | 1060 | 1.79         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 28      | Transport (Road) | Improvement of road starting from Joyertak Nilu's house to Rahajuddin's house.  | Repairing & Weidening | Gali road     | Ward 11     | KON-8     | m    | 1460 | 1.24         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 29      | Transport (Road) | Improvement of road by carpeting starting from Jailkhana gate to Samiruddin Hazi's house via Ebrahim member's hosue road at Konabari.   | Repairing & Weidening | Gali road     | Ward 11     | KON-9     | m    | 2000 | 1.46         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 30      | Transport (Road) | Improvement of road by carpeting starting from Harinachala Pucca road at Konabari to Kashimpur Pucca road.  | Repairing & Weidening | Gali road     | Ward 08     | KON-10    | m    | 1500 | 1.11         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |



| Sl. No. | Sub-Sector       | Name of scheme  | Work Category         | Level of Work | Location   |           | Unit | Qty. | Cost (Crore) | Previous study | Description  | Source of Fund |
|---------|------------------|---|-----------------------|---------------|------------|-----------|------|------|--------------|----------------|--|----------------|
|         |                  |   |                       |               | Area Name  | No on map |      |      |              |                |  |                |
| 31      | Transport (Road) | (a) Improvement of road by carpeting starting from Dano's gate to Deyalia bari Eidgah field at Konabari. (b) Improvement of road by carpeting starting from the back side of Mafiz uddin Member's Mosque at Dewyalia Bari to Dhaka- Tangail road at Konabari. | Repairing & Weidening | Gali road     | Ward 08,09 | KON-11    | m    | 2500 | 1.84         | N/A            | Repairing of BC road No acquisition of land No resettlement        | JICA           |
| 32      | Transport (Road) | Improvement of road by carpeting starting from Ambag house of Abul to house of Azhar Mollah and Shop of Baten via Joyer tak khaza market.   | Repairing & Weidening | Gali road     | Ward 08    | KON-12    | m    | 2500 | 1.65         | N/A            | Repairing of BC road No acquisition of land No resettlement        | JICA           |
| 33      | Transport (Road) | Improvement of road by carpeting starting from Protappur house of Rahaj uddin to Protappur Mosque via house of Hukum Master   | Repairing & Weidening | Gali road     | Ward 10    | KON-13    | m    | 2000 | 1.32         | N/A            | Repairing of BC road No acquisition of land No resettlement        | JICA           |
| 34      | Transport (Road) | Improvement of road by carpeting starting from Bagia house of Amzad to Bagia high school.   | Repairing & Weidening | Gali road     | Ward 11    | KON-14    | m    | 2000 | 1.32         | N/A            | Repairing of BC road No acquisition of land No resettlement        | JICA           |
| 35      | Transport (Road) | Improvement of road by carpeting starting from Kalervita house of Montaz uddin to house of Rahim.   | Repairing & Weidening | Gali road     | Ward 11    | KON-15    | m    | 1500 | 1.00         | N/A            | Repairing of BC road No acquisition of land No resettlement        | JICA           |
| 36      | Transport (Road) | Improvement of road by carpeting & Construction of drain starting from Natun bazar patrol pump to moor of Ambag Tatul Tala road.  | Repairing & Weidening | Gali road     | Ward 11    | KON-16    | m    | 3000 | 4.98         | N/A            | Repairing of BC road No acquisition of land No resettlement        | JICA           |
| 37      | Transport (Road) | Improvement of road by carpeting starting from Joyer tak house of Baser to Joyer tak Shitla ghat.   | Repairing & Weidening | Gali road     | Ward 10,11 | KON-17    | m    | 2000 | 1.32         | N/A            | Repairing of BC road No acquisition of land No resettlement        | JICA           |
| 38      | Transport (Road) | Improvement of road by carpeting starting from Konabari Naser Market to towards Kalervita.  | Repairing & Weidening | Gali road     | Ward 11    | KON-18    | m    | 2000 | 1.32         | N/A            | Repairing of BC road No acquisition of land No resettlement        | JICA           |
| 39      | Transport (Road) | Improvement RCC road & drain from kader Market moor to both side of pukur par pucca road.   | Renovation            | Tertiary road | Ward 11    | KON-19    | m    | 470  | 2.00         | N/A            | Repairing of BC road No acquisition of land No resettlement        | JICA           |
| 40      |                  | Improvement of road by carpeting starting from Parijat Pr. School to Parijat Pucca road, Improvement of road by carpeting Konabari Kashimpur to house of Ibrahim,   | Repairing & Weidening | Gali road     | Ward 7-12  | KON-24    | m    | 1006 | 1.00         | N/A            | New Construction of BC road No acquisition of land No resettlement | JICA           |

| Sl. No. | Sub-Sector       | Name of scheme   | Work Category                | Level of Work | Location   |           | Unit | Qty. | Cost (Crore) | Previous study | Description  | Source of Fund |
|---------|------------------|--|------------------------------|---------------|------------|-----------|------|------|--------------|----------------|--|----------------|
|         |                  |  |                              |               | Area Name  | No on map |      |      |              |                |  |                |
|         |                  | North side of Zamuna Factory at Zarun road, Improvement of road by carpeting with RCC drain Kashimpur to Parijat road of KB road, Improvement of road by carpetingHaque Madical gate of Kashimpur to Kuddusnagor road. |                              |               |            |           |      |      |              |                |  |                |
| 41      | Transport (Road) | Improvement of road by carpeting with RCC drain starting from Akondo's shop at Dhaka-Mymensing road to Mr. Abdur Rahman's house at Digir Chala.  | Repairing & new construction | Tertiary road | Ward 12    | BAS-1     | m    | 650  | 1.35         | N/A            | Repairing of RCC road No acquisition of land No resettlement | JICA           |
| 42      | Transport (Road) | (a) Improvement of road by carpeting starting from Amirabad Chala Mortuja's hosue to Etahata Primary School. (b) Improvement of road by carpeting starting from Nawjur to Islampur Eidgah Math.                        | Repairing & Weidening        | Gali road     | Ward 16    | BAS-2     | m    | 3000 | 1.79         | N/A            | Repairing of BC road No acquisition of land No resettlement  | JICA           |
| 43      | Transport (Road) | Improvement of road by carpeting with RCC drain from Moddho Vogra bazar to highway.  | Repairing & Weidening        | Gali road     | Ward 13,14 | BAS-4     | m    | 800  | 1.81         | N/A            | Repairing of BC road No acquisition of land No resettlement  | JICA           |
| 44      | Transport (Road) | Improvement of road by carpeting with drain starting from near Akbar's shop at Adhepasha to Shahid Mondol's house.   | Repairing & Weidening        | Gali road     | Ward 15    | BAS-5     | m    | 1300 | 2.49         | N/A            | Repairing of BC road No acquisition of land No resettlement  | JICA           |
| 45      | Transport (Road) | Improvement of road by WBM+BC & construction of drain starting from Dhaka-Joydebpur road via Rowshan Sarak to the Mogorkhal  | Repairing & Weidening        | Gali road     | Ward 14    | BAS-6     | m    | 2000 | 3.55         | N/A            | Repairing of BC road No acquisition of land No resettlement  | JICA           |
| 46      | Transport (Road) | Improvement of road by WBM+BC & construction of drain starting from Kolombia Germents to the Moghorkhal.   | Repairing & Weidening        | Gali road     | Ward 16,17 | BAS-7     | m    | 1500 | 3.5          | N/A            | Repairing of BC road No acquisition of land No resettlement  | JICA           |
| 47      | Transport (Road) | Improvement of road by carpeting & bridge starting from Marialy to Dhaka-Mymensing highway near BADC.  | Repairing & Weidening        | Tertiary road | Ward 17    | BAS-8     | m    | 2000 | 2.68         | N/A            | Repairing of BC road No acquisition of land No resettlement  | JICA           |
| 48      | Transport (Road) | Improvement of road by carpeting with drain startig from Telipara Police fari to Basir Sarak.  | Repairing & Weidening        | Gali road     | Ward 18    | BAS-9     | m    | 1000 | 1.8          | N/A            | Repairing of BC road No acquisition of land No resettlement  | JICA           |

| Sl. No. | Sub-Sector       | Name of scheme   | Work Category                | Level of Work | Location    |           | Unit | Qty. | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|------------------|--|------------------------------|---------------|-------------|-----------|------|------|--------------|----------------|---|----------------|
|         |                  |  |                              |               | Area Name   | No on map |      |      |              |                |   |                |
| 49      | Transport (Road) | Construction of road Dhaka-Sylhet bypass near Islampur to Dhaka-Gazipur road near the Malek's house Haque Market.  | Repairing & Weidening        | Tertiary road | Ward 18     | BAS-10    | m    | 5500 | 8.5          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 50      | Transport (Road) | Improvement of road Tin Sarak to Bypass road via Jugitala bazar.   | Repairing & Weidening        | Gali road     | Ward 14     | BAS-11    | m    | 3000 | 4            | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 51      | Transport (Road) | Improvement of road by carpeting with RCC drain at Riyaj Nogor road.   | Repairing & new construction | Gali road     | Ward 17     | BAS-12    | m    | 1000 | 2.07         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 52      | Transport (Road) | Improvement of road by carpeting starting from Dewyanpar to Khalisha varta Gudarghat.  | Repairing & Weidening        | Gali road     | Ward 21, 22 | KOW-1     | m    | 3000 | 2.55         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 53      | Transport (Road) | Improvement of road by carpeting starting from Kathuta to Mazipra at the side of Turag via Mozlishpur new bridge   | Repairing & Weidening        | Gali road     | ward 20     | KOW-2     | m    | 3000 | 2.55         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 54      | Transport (Road) | Improvement of road by carpeting starting from Nanduin carpeting road to east dugri road via Bahadurpur pr. School.  | Repairing & Weidening        | Gali road     | Ward 22     | KOW-3     | m    | 3000 | 2.55         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 55      | Transport (Road) | Improvement of road by carpeting starting from Shalna High School to Bagolbari Chilai khal bridge  | Repairing & Weidening        | Gali road     | Ward 23     | KOW-4     | m    | 3000 | 2.55         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 56      | Transport (Road) | Improvement of road starting from purabari bazar north side to kawltia masterbari via north salna Nuru Dr.   | Repairing & Weidening        | Gali road     | Ward 21     | KOW-5     | m    | 2000 | 1.70         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 57      | Transport (Road) | Improvement of road by carpeting starting from west side culvert of Palan bari at Purabari Kharkhana road to Chaish pukurpar via Uttar Shalna Haichcha Munsis house. | Repairing & Weidening        | Gali road     | Ward 21     | KOW-6     | m    | 3000 | 2.55         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 58      | Transport (Road) | Improvement of road by carpeting starting from south Baopara Pr. School to Zolarpar Siraj Member's house.  | Repairing & Weidening        | Gali road     | Ward 21     | KOW-7     | m    | 2000 | 1.70         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 59      | Transport (Road) | Improvement of road by carpeting starting from Deshipara bazar to Upazila parishod road.   | Repairing & Weidening        | Gali road     | Ward 19     | KOW-8     | m    | 2000 | 1.70         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 60      | Transport        | Improvement of road by carpeting   | Repairing &                  | Gali road     | Ward 23     | KOW-      | m    | 2000 | 1.70         | N/A            | Repairing of BC road No                                     | JICA           |

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|---------|------------------|---|-----------------------|---------------|-----------|-----------|------|------|--------------|----------------|---|----------------|
|         |                  |   |                       |               | Area Name | No on map |      |      |              |                |   |                |
|         | (Road)           | starting from Gazipur Play ground to Khilpara Madrasha.   | Weidening             |               |           | 9         |      |      |              |                | acquisition of land No resettlement                         |                |
| 61      | Transport (Road) | Improvement of road by carpeting & culvert starting from Bawraid carpeting road to Kumarkhada Govt. Pr. School. | Repairing & Weidening | Gali road     | Ward 23   | KOW-10    | m    | 3000 | 3.00         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 62      | Transport (Road) | Improvement of road by carpeting starting from Hatiyab Pr. School to Pathan par BOF connecting road.            | Repairing & Weidening | Gali road     | Ward 23   | KOW-11    | m    | 1500 | 1.27         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 63      | Transport (Road) | Improvement of road by carpeting starting from Hatiyabo east Darzipara road to Hatiyabo member's house road.    | Repairing & Weidening | Gali road     | Ward 22   | KOW-12    | m    | 1500 | 1.27         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 64      | Transport (Road) | Improvement of road by carpeting starting from Katura Moslishpur road carpeting.                                | Repairing & Weidening | Gali road     | ward 20   | KOW-13    | m    | 8000 | 7.00         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 65      | Transport (Road) | Carpeting of road from Nandoan Ramjan market to Vim bazaar  | Repairing & Weidening | Gali road     | Ward 22   | KOW-14    | m    | 2000 | 1.7          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 66      | Transport (Road) | Carpeting of road from Tulshi vita sikder bari road to Eid gah mad via bangla bazaar                            | Repairing & Weidening | Gali road     | Ward 22   | KOW-15    | m    | 3000 | 2.5          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 67      | Transport (Road) | Carpeting of road at Gazaria para Miah bari road to National park road  | Repairing & Weidening | Gali road     | Ward 22   | KOW-16    | m    | 3000 | 2.5          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 68      | Transport (Road) | Carpeting of road from Samser Mondol Market to Sagar Shop   | Repairing & Weidening | Gali road     | Ward 22   | KOW-17    | m    | 2000 | 1.7          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 69      | Transport (Road) | Carpeting of road from Master bari Mirjapur road to house of Noru chairman                                      | Repairing & Weidening | Gali road     | Ward 22   | KOW-18    | m    | 3000 | 2.5          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 70      | Transport (Road) | Carpeting road at Bhaoraid Porabari road to house of Motalib  | Repairing & Weidening | Gali road     | Ward 23   | KOW-19    | m    | 1500 | 1.2          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 71      | Transport (Road) | Carpeting at Bhaoraid Abu Taher house to house of Rahim Hazi  | Repairing & Weidening | Gali road     | Ward 23   | KOW-20    | m    | 2000 | 1.7          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 72      | Transport (Road) | Carpeting road at Bhaoraid Halim Dilar house to Kolonir road  | Repairing & Weidening | Gali road     | Ward 23   | KOW-21    | m    | 2000 | 1.7          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 73      | Transport        | Carpeting road at north Salna to  | Repairing &           | Gali road     | Ward 23   | KOW-      | m    | 2000 | 1.7          | N/A            | Repairing of BC road No                                     | JICA           |

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|---------|------------------|--|-----------------------|---------------|-----------|-----------|------|---------|--------------|----------------|---|----------------|
|         |                  |  |                       |               | Area Name | No on map |      |         |              |                |   |                |
|         | (Road)           | house of Samsul Haque  | Weidening             |               |           |           | 22   |         |              |                | acquisition of land No resettlement                         |                |
| 74      | Transport (Road) | Carpeting road at Purabari east para house of Bashar   | Repairing & Weidening | Gali road     | Ward 23   | KOW-23    | m    | 1500    | 1.2          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 75      | Transport (Road) | Carpeting road at Bauraid house of Hannan Member road to house of Abdul Barek Master   | Repairing & Weidening | Gali road     | Ward 23   | KOW-24    | m    | 2500    | 2.2          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 76      | Transport (Road) | Carpeting road at Bauraid Mosolli bari to Master bari connecting road.   | Repairing & Weidening | Gali road     | Ward 23   | KOW-25    | m    | 2000    | 1.6          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 77      | Transport (Road) | Improvement of road by carpeting starting from Purabari BOF Aowlakur Mosque to Purabari Horticulture.                                | Repairing & Weidening | Gali road     | Kowltia   | KOW-45    | m    | 2200    | 2.5          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 78      | Transport (Road) | Improvement of road by carpeting starting from Dhaka Mymensing road Khan CNG Filling Station to Vaurait Deep tube Well via kazibari. | Repairing & Weidening | Gali road     | Kowltia   | KOW-46    | m    | 2000    | 2.1          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 79      | Transport (Road) | Improvement of road by carpeting starting from Bonogram Govt. Primary School road to Hatiab Motha Para Paca road.                    | Repairing & Weidening | Gali road     | Kowltia   | KOW-47    | m    | 3000.00 | 3            | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 80      | Transport (Road) | Carpeting road at Gazipur rail line north side to pazuli road.   | Repairing & Weidening | Gali road     | Ward 23   | KOW-26    | m    | 2500    | 2.2          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 81      | Transport (Road) | Carpeting road at Kumarkhada to Bhawal Gazipur railway station via khilpara.   | Repairing & Weidening | Gali road     | Ward 23   | KOW-27    | m    | 6000    | 5            | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 82      | Transport (Road) | carpeting road at Hatiyabo Endar's house road to Banopara school east side bridge via khilpara.                                      | Repairing & Weidening | Gali road     | Ward 23   | KOW-28    | m    | 4000    | 3            | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 83      | Transport (Road) | Carpeting road at Bhawyal Gazipur railway station to house of Mozammel Mollah via Inder's house.                                     | Repairing & Weidening | Gali road     | Ward 23   | KOW-29    | m    | 2000    | 1.7          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 84      | Transport (Road) | Carpeting road at Gazipur railway station to Pazulia road.   | Repairing & Weidening | Gali road     | Ward 23   | KOW-30    | m    | 2000    | 1.7          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 85      | Transport        | Carpeting of road from   | Repairing &           | Gali road     | Ward 21   | KOW-      | m    | 1500    | 1.2          | N/A            | Repairing of BC road No                                     | JICA           |

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|---------|----------------------|--|-----------------------|-------------------|-------------|-----------|------|------|--------------|----------------|---|----------------|
|         |                      |  |                       |                   | Area Name   | No on map |      |      |              |                |   |                |
|         | (Road)               | Kowltia-Jolarpar road to Late Abul Hossain (X-Membar house) via house of Rostom                      | Weidening             |                   |             |           |      |      |              |                | acquisition of land No resettlement                         |                |
| 86      | Transport (Road)     | Carpeting of road from Salna jularpar road to Purabari Karkhana road via house of Moslam             | Repairing & Weidening | Gali road         | Ward 21     | KOW-32    | m    | 2000 | 1.6          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 87      | Transport (Road)     | Carpeting of road from Purabari Karkhana road to Mirer gaon rail line via Aribari tak                | Repairing & Weidening | Gali road         | Ward 21     | KOW-33    | m    | 2000 | 1.6          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 88      | Transport (Road)     | Improvement Carpeting road at Shalna Bagolbari road,   | Repairing & Weidening | Gali road         | Ward 19     | KOW-34    | m    | 2500 | 2            | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 89      | Transport (Road)     | carpeting road at shalna Joydebpur road at Raisuddin Rice mill to Bagolbari road.                    | Repairing & Weidening | Gali road         | Ward 19     | KOW-35    | m    | 2000 | 1.6          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 90      | Transport (Road)     | Carpeting road at Jolarpar Karkhana road to Rail line via Faruk house,                               | Repairing & Weidening | Gali road         | Ward 21     | KOW-36    | m    | 1500 | 1.2          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 91      | Transport (Road)     | Construction of drain at Shalna bazar west side to south side baid,                                  | Repairing & Weidening | Gali road         | Ward 19     | KOW-37    | m    | 2000 | 3.5          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 92      | Transport (Road)     | Improvement of carpeting road house of Tack Kathura Maishal to house of Bash bari                    | Repairing & Weidening | Gali road         | ward 20     | KOW-38    | m    | 2000 | 1.6          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 93      | Transport (Road)     | Carpreting road at house of Councilor Latif to Jogir gofa paca road,                                 | Repairing & Weidening | Gali road         | Ward 19     | KOW-39    | m    | 1500 | 1.2          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 94      | Transport (Road)     | Carpeting road at Bagolbari to X Union parishad,   | Repairing & Weidening | Gali road         | Ward 19     | KOW-40    | m    | 3000 | 2.5          | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 95      | Transport (Road)     | Carpeting road at Deshi para Natun bazaar to house of Rokon uddin master via house of Mannan madbor, | Repairing & Weidening | Gali road         | Ward 19     | KOW-41    | m    | 1500 | 2.00         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 96      | Transport (Road)     | Salna Joydebpur pucca road to deshipar natun bazar via Latif Councilor house,                        | Repairing & Weidening | Gali road         | Ward 19     | KOW-42    | m    | 2000 | 1.60         | N/A            | Repairing of BC road No acquisition of land No resettlement | JICA           |
| 97      | Transport (Fly over) | Construction of fly over from Shibbari mour to Rathkhola.  | Fly over              | New Constructio n | Ward-26, 28 | G-13      | m    | 800  | 70.00        |                | New Construction No acquisition of land No resettlement     | JICA           |

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|---------|-----------------------|---|-----------------------|------------------------|-----------|-----------|------|---------|--------------|----------------|---|----------------|
|         |                       |   |                       |                        | Area Name | No on map |      |         |              |                |   |                |
| 98      | Transport (Road)      | Improvement of road by carpeting starting from Bonogram Govt. Primary School road to Hatiab Motha Para Paca road.   | Repairing & Weidening | road                   | Kowltia   | KOW-48    | m    | 3000.00 | 2.5          | N/A            | No Need Land Acquisition                                | JICA           |
| 99      | Transport (Road)      | Improvement of road by carpeting starting from Purabari BOF Aowlakur Mosque to Purabari Horticulture.   | Repairing & Weidening | road                   | Kowltia   | KOW-49    | m    | 2200.00 | 1.9          | N/A            | No Need Land Acquisition                                | JICA           |
| 100     | Transport (Road)      | Improvement of road by carpeting starting from Dhaka Mymensing road Khan CNG Filling Station to Vaurait Deep tube Well via kazibari.  | Repairing & Weidening | road                   | Kowltia   | KOW-50    | m    | 2000.00 | 1.7          | N/A            | No Need Land Acquisition                                | JICA           |
| 101     | Transport (Road)      | Improvement of road by carpeting starting from Lohakoir Mazar road to Lohakoir East para Jame Mosque & Lohakoir Jakerpara Mosque GCC Last border.   | Repairing & Weidening | road                   | Kashimpur | KAS-3     | m    | 2000.00 | 2.5          | N/A            | No Need Land Acquisition                                | JICA           |
| 102     | Transport (over pass) | Construction of over pass on the National Highway road at Gazipura, Collegate, Chairg Ali Market, BoroBari, Board Bazar, Sign Board, Gazipur Chowrasta, Konabari, Bogra Area. (Metalic Frame) | New Construction      | over pass              | Gazipur   |           | each | 9.00    | 27.00        | N/A            | No Need Land Acquisition                                | JICA           |
| 103     | Transport (Bridge)    | Construction of Bridge on from Shibbari mour to Rathkhola.  | New Construction      | Bridge                 | Ward-30   | G-14      | m    | 30      | 1.5          | N/A            | New Construction No acquisition of land No resettlement | JICA           |
| 104     | Transport (Bridge)    | Re-Construction of Uddor-Sikolia Bridge work.   | Re-constructio n      | Bridge & approach road | Pubail    | 9(a)      | m    | 60      | 4.25         | N/A            | New construction no acquisitin of land no re settlement | JICA           |
| 105     | Transport (Bridge)    | Re-Construction of Moruka Bridge work   | Re-constructio n      | Bridge & approach road | Tongi     | 9(b)      | m    | 70      | 4.50         | N/A            | New construction no acquisitin of land no re settlement | JICA           |
| 106     | Transport (Bridge)    | Re-Construction of Laxandia Khal by Bridge work.  | Re-constructio n      | Bridge & approach road | Tongi     | 9(c)      | m    | 60      | 4.25         | N/A            | New construction no acquisitin of land no re settlement | JICA           |
| 107     | Transport (Bridge)    | Re-Construction of Badon Bridge work.   | Re-constructio n      | Bridge & approach road | Tongi     | 9(d)      | m    | 50      | 3.80         | N/A            | New construction no acquisitin of land no re settlement | JICA           |
| 108     | Transport (Box)       | Construction of box Culvert on R&H at Kamarpara (Monno Gate)  | New construction      | Box Culvert            | Tongi     | 9(e)      | m    | 50      | 1.50         | N/A            | New construction no acquisitin of land no re            | JICA           |

| Sl. No. | Sub-Sector       | Name of scheme  | Work Category                 | Level of Work | Location  |           | Unit | Qty. | Cost (Crore) | Previous study | Description  | Source of Fund |
|---------|------------------|---|-------------------------------|---------------|-----------|-----------|------|------|--------------|----------------|--|----------------|
|         |                  |   |                               |               | Area Name | No on map |      |      |              |                |  |                |
|         | Culvert)         |   |                               |               |           |           |      |      |              |                | settlement   |                |
| 109     | Transport (Road) | Improvement of Tongi-Vadam road by BC work                            | Reparing & Widening           | Tertiary road | Tongi     | T-1       | m    | 6000 | 5.80         | N/A            | Reparing of BC road No Acquisition of Land No Re-settlement        | JICA           |
| 110     | Transport (Road) | Improvement of Sataish main road by BC work (UP to I.M.C)             | Reparing & Widening           | Tertiary road | Tongi     | T-2       | m    | 5000 | 5.20         | N/A            | Reparing of BC road No Acquisition of Land No Re-settlement        | JICA           |
| 111     | Transport (Road) | Re-Construction of Vakral-Gutia Road with box culvert by HBB work.    | Re-constructio n of HBB road. | Tertiary road | Tongi     | T-3       | m    | 1750 | 0.80         | N/A            | HBB road No Acquisition of Land No Re-settlement                   | JICA           |
| 112     | Transport (Road) | Re-Construction of Gutia main road by BC work                         | Re-Constructi on & Widening   | Goli road     | Tongi     | T-4       | m    | 1100 | 0.83         | N/A            | Re-Construction of BC road No Acquisition of Land No Re-settlement | JICA           |
| 113     | Transport (Road) | Improvement of Dhaka-Pubail road to Maruka Bridge by BC work          | Reparing & Widening           | Tertiary road | Tongi     | T-5       | m    | 2000 | 1.80         | N/A            | Reparing of BC road No Acquisition of Land No Re-settlement        | JICA           |
| 114     | Transport (Road) | Improvement of Dattapara Bonomala road BC work                        | Reparing & Widening           | Tertiary road | Tongi     | T-6       | m    | 1500 | 1.50         | N/A            | Reparing of BC road No Acquisition of Land No Re-settlement        | JICA           |
| 115     | Transport (Road) | Improvement of Gazipura Molluck hossain main road by BC work          | Reparing & Widening           | Goli road     | Tongi     | T-7       | m    | 1100 | 0.95         | N/A            | Reparing of BC road No Acquisition of Land No Resettlement         | JICA           |
| 116     | Transport (Road) | Improvement of Arichur Amzad Ali Sarker School road by BC work.       | Reparing                      | Tertiary road | Tongi     | T-8       | m    | 1400 | 1.20         | N/A            | Reparing of BC road No Acquisition of Land No Resettlement         | JICA           |
| 117     | Transport (Road) | Improvement of Tongi Bazar Central Mosque north side by RCC road work | Improvement of RCC road       | Tertiary road | Tongi     | T-9       | m    | 100  | 0.18         | N/A            | Improvement of RCC road No Acquisition of Land No Resettlement     | JICA           |
| 118     | Transport (Road) | Improvement of Tongi Bazar Hazi Jalil Khan road by B.C work           | Reparing                      | Tertiary road | Tongi     | T-10      | m    | 1400 | 1.35         | N/A            | Reparing of BC road No Acquisition of Land No Resettlement         | JICA           |
| 119     | Transport (Road) | Improvement of Arichpur Sher-E-Bangla road by BC work                 | Reparing                      | Tertiary road | Tongi     | T-11      | m    | 700  | 0.80         | N/A            | Reparing of BC road No Acquisition of Land No Resettlement         | JICA           |
| 120     | Transport (Road) | Improvement of Arichpur Modhumita road by BC work                     | Reparing                      | Tertiary road | Tongi     | T-12      | m    | 700  | 0.85         | N/A            | Reparing of BC road No Acquisition of Land No Resettlement         | JICA           |
| 121     | Transport (Road) | Improvement of Pagar Fokir Market to Hassan Dying road by BC work.    | Reparing                      | Goli road     | Tongi     | T-13      | m    | 1000 | 1.10         | N/A            | Reparing of BC road No Acquisition of Land No Resettlement         | JICA           |
| 122     | Transport (Road) | Improvement of Pagar (Zaimat Khan to Eid gah connecting road          | Improvement of RCC road       | Tertiary road | Tongi     | T-14      | m    | 400  | 0.44         | N/A            | Improvement of RCC road No Acquisition of Land No                  | JICA           |



| Sl. No. | Sub-Sector       | Name of scheme  | Work Category               | Level of Work | Location  |           | Unit | Qty. | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|------------------|---|-----------------------------|---------------|-----------|-----------|------|------|--------------|----------------|---|----------------|
|         |                  |   |                             |               | Area Name | No on map |      |      |              |                |   |                |
|         |                  | by RCC work   |                             |               |           |           |      |      |              |                | Resettlement  |                |
| 123     | Transport (Road) | Improvement of Pagar Zaimat Khan main road by BC work   | Reparing & Widening         | Tertiary road | Tongi     | T-15      | m    | 3500 | 4.90         | N/A            | Reparing of BC road No Acquisition of Land No Resettlement        | JICA           |
| 124     | Transport (Road) | Improvement road Shaheed Sundar Ali road via Nishat Graveyard road by BC work.  | Reparing                    | Tertiary road | Tongi     | T-16      | m    | 1250 | 1.40         | N/A            | Reparing of BC road No Acquisition of Land No Resettlement        | JICA           |
| 125     | Transport (Road) | Improvement of Tongi-College road & Safiuddin School road (Mymensing road Shahjalal road by BC work.                  | Reparing & Widening         | Tertiary road | Tongi     | T-17      | m    | 2000 | 2.60         | N/A            | Reparing of BC road No Acquisition of Land No Resettlement        | JICA           |
| 126     | Transport (Road) | Improvement of Khapara road (Mymensing rod to Tilar gati road by BC work  | Reparing & Widening         | Tertiary road | Tongi     | T-18      | m    | 4000 | 3.20         | N/A            | Reparing of BC road No Acquisition of Land No Resettlement        | JICA           |
| 127     | Transport (Road) | Re-Construction of Bord Bazar Bot Tola Road (Bord Bazar to By pass Via Siraj Chairman) By BC work.                    | Re-Constructi on & Widening | Tertiary road | Gacha     | Ga-1      | m    | 3000 | 3.70         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 128     | Transport (Road) | Re-Construction of Shied Ahsan Ullah Master Bridge to Mazu Khan Botar Bad Bridge via Romoni Kumar School by B.C work. | Re-Constructi on            | Tertiary road | Pubail    | P-1       | m    | 2500 | 1.84         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 129     | Transport (Road) | Re-Construction of Dagar Chala Chowrasta to Shakra urri road by BC work.  | Re-Constructi on            | Tertiary road | Gacha     | Ga-2      | m    | 3000 | 2.80         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 130     | Transport (Road) | Re-Construction of Mazu Khan Rail Bridge to Haidarabad Jabar Market by B.C work.                                      | Re-Constructi on            | Tertiary road | Pubail    | P-2       | m    | 3000 | 2.20         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 131     | Transport (Road) | Improvement of CERS Road (Hoque Battery road by BC work.  | Reparing                    | Tertiary road | Tongi     | T-19      | m    | 1300 | 1.75         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 132     | Transport (Road) | Re-Construction of Gacha Main road by BC work   | Re-Constructi on & Widening | Tertiary road | Gacha     | Ga-3      | m    | 3000 | 3.70         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 133     | Transport (Road) | Re-Construction of Mazu Khan to Padharbaid Jasim Uddin Club by B.C work & box culvert.                                | Re-Constructi on & Widening | Goli road     | Pubail    | P-3       | m    | 2000 | 1.52         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 134     | Transport (Road) | Re-Construction of IUT Gate to Kathora road by Bework.  | Re-Constructi on & Widening | Tertiary road | Gacha     | Ga-4      | m    | 3000 | 3.30         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 135     | Transport        | Re-Construction of Sataish  | Re-Constructi               | Goli road     | Tongi     | T-20      | m    | 1200 | 0.95         | N/A            | Re-Construction of BC road  | JICA           |

| Sl. No. | Sub-Sector       | Name of scheme  | Work Category              | Level of Work | Location  |           | Unit | Qty. | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|------------------|---|----------------------------|---------------|-----------|-----------|------|------|--------------|----------------|---|----------------|
|         |                  |   |                            |               | Area Name | No on map |      |      |              |                |   |                |
|         | (Road)           | Dorpara road by BC work   | on & Widening              |               |           |           |      |      |              |                | No Acquisition of Land No Resettlement                            |                |
| 136     | Transport (Road) | Re-Construction of Dhaka-Mymensingh Road Harican mur to Zajor Bazar via indesore Ltd. By BC work. | Re-Construction & Widening | Tertiary road | Gacha     | Ga-5      | m    | 2500 | 2.05         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 137     | Transport (Road) | Re-Construction of Pakordashi to Magdobi Primary School via Talinagor by B.C work.                | Re-Construction & Widening | Goli road     | Pubail    | P-4       | m    | 1500 | 1.05         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 138     | Transport (Road) | Improvement of Vadam Central mosque road by BC work   | Repairing                  | Goli road     | Tongi     | T-21      | m    | 980  | 0.75         | N/A            | Repairing of BC road No Acquisition of Land No Resettlement       | JICA           |
| 139     | Transport (Road) | Re-Construction of Pubail Bazar to Haribari Tak Akbor Sarker house road by BC work                | Re-Construction & Widening | Goli road     | Pubail    | P-5       | m    | 2000 | 1.55         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 140     | Transport (Road) | Re-Construction of Dewra-Shahjalal Road by BC work  | Re-Construction & Widening | Goli road     | Tongi     | T-22      | m    | 950  | 0.70         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 141     | Transport (Road) | Re-Construction of Dhaka-Bypass road to Udor Sikolia Bridge road by B.C work                      | Re-Construction & Widening | Goli road     | Pubail    | P-6       | m    | 1500 | 1.20         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 142     | Transport (Road) | Improvement of Vakral main road by BC work  | Re-Construction & Widening | Goli road     | Tongi     | T-49      | m    | 600  | 0.44         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 143     | Transport (Road) | Re-Construction of Haidarabad Madrasha to Haidarabad High School road by B.C work                 | Re-Construction & Widening | Tertiary road | Pubail    | P-7       | m    | 2500 | 2.00         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 144     | Transport (Road) | Re-Construction of Harbaid High School to Maruka Bridge by B.C work.                              | Re-Construction & Widening | Tertiary road | Pubail    | P-8       | m    | 2000 | 1.55         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 145     | Transport (Road) | Re-Construction of Sign Board Jamir Uddin Khan road by BC work.                                   | Re-Construction & Widening | Tertiary road | Gacha     | Ga-6      | m    | 2500 | 1.85         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 146     | Transport (Road) | RE-Construction of Sign Board to Pola Gach road by BC work  | Re-Construction & Widening | Tertiary road | Gacha     | Ga-7      | m    | 1200 | 1.20         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 147     | Transport (Road) | Re-Construction of Sign Board Harican Factory to Moisar tak road by by BC work                    | Re-Construction & Widening | Tertiary road | Gacha     | Ga-8      | m    | 4500 | 4.20         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 148     | Transport (Road) | Re-Construction of Malaker Bari Show par ozar para road   | Re-Construction & Widening | Goli road     | Gacha     | Ga-9      | m    | 3500 | 3.20         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |

| Sl. No. | Sub-Sector       | Name of scheme  | Work Category               | Level of Work | Location  |           | Unit | Qty. | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|------------------|---|-----------------------------|---------------|-----------|-----------|------|------|--------------|----------------|---|----------------|
|         |                  |   |                             |               | Area Name | No on map |      |      |              |                |   |                |
| 149     | Transport (Road) | RE-Construction of Magdobi Midra para to Magdobi coler bazar by BC work.                        | Re-Construction & Widening  | Tertiary road | Pubail    | P-9       | m    | 2000 | 1.50         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 150     | Transport (Road) | Re-Construction of Sataish Main road to Rajnogor road by BC work.                               | Re-constructio n            | Tertiary road | Tongi     | T-23      | m    | 770  | 0.60         | N/A            | Reconstruction of BC road No Acquisition of Land No Resettlement  | JICA           |
| 151     | Transport (Road) | Improvement of Morkun-Silmon conncting road by BC work  | Reparing                    | Goli road     | Tongi     | T-24      | m    | 1500 | 1.20         | N/A            | Reconstruction of BC road No Acquisition of Land No Resettlement  | JICA           |
| 152     | Transport (Road) | Re-Construction of Dewra Adarshpara road via Adarsha para mosque road by CC work.               | Re-constructio n            | Goli road     | Tongi     | T-25      | m    | 1050 | 0.50         | N/A            | Reconstruction of BC road No Acquisition of Land No Resettlement  | JICA           |
| 153     | Transport (Road) | Re-Construction of Dewra Mitti Bari Dewra Adarsha para link raoad by C.C work                   | Re-constructio n            | Goli road     | Tongi     | T-26      | m    | 1200 | 0.60         | N/A            | Reconstruction of CC road No Acquisition of Land No Resettlement  | JICA           |
| 154     | Transport (Road) | Improvement of Molla Bari road to Moker bari road by BC work                                    | Reparing                    | Goli road     | Tongi     | T-27      | m    | 2500 | 2.65         | N/A            | Reparing of BC road No Acquisition of Land No Resettlement        | JICA           |
| 155     | Transport (Road) | Re-Construction of Haidarabad Madrasha to Haidarabad Talgass tak via Eid-Gah-Field by B.C work. | Re-Constructi on & Widening | Tertiary road | Pubail    | P-9       | m    | 2000 | 1.30         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 156     | Transport (Road) | Re-Construction of Chamudda Takpara to Easali by B.C work                                       | Re-Constructi on & Widening | Goli road     | Pubail    | P-10      | m    | 1500 | 1.00         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 157     | Transport (Road) | Re-Construction of Pubail Asrow Center to Udor Bridge by B.C work.                              | Re-Constructi on & Widening | Goli road     | Pubail    | P-11      | m    | 3000 | 2.30         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 158     | Transport (Road) | Re-Construction of Pad Harbaid Road to Pad Harbaid Abul hossain house road by BC work.          | Re-Constructi on & Widening | Tertiary road | Pubail    | P-12      | m    | 1000 | 0.75         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 159     | Transport (Road) | Re-Construction of Magdobi Colar Bazar to Laxandia road by BC work                              | Re-Constructi on & Widening | Goli road     | Pubail    | P-13      | m    | 1500 | 1.20         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 160     | Transport (Road) | Re-Construction of Sign Board Hazi Abu Saied road by BC work                                    | Re-Constructi on & Widening | Goli road     | Gacha     | Ga-10     | m    | 3500 | 2.40         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 161     | Transport (Road) | Re-Construction of Gacha Bonghobondhu college to Chandra sousha para road by by BC work         | Re-Constructi on & Widening | Goli road     | Gacha     | Ga-11     | m    | 3000 | 2.30         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 162     | Transport        | Re-Construction of Sign Board   | Re-Constructi               | Goli road     | Gacha     | Ga-12     | m    | 1500 | 1.40         | N/A            | Re-Construction of BC road  | JICA           |

| Sl. No. | Sub-Sector       | Name of scheme   | Work Category              | Level of Work | Location  |           | Unit | Qty. | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|------------------|--|----------------------------|---------------|-----------|-----------|------|------|--------------|----------------|---|----------------|
|         |                  |  |                            |               | Area Name | No on map |      |      |              |                |   |                |
|         | (Road)           | Busher Mill roadby BC work   | on & Widening              |               |           |           |      |      |              |                | No Acquisition of Land No Resettlement                            |                |
| 163     | Transport (Road) | Re-Construction of Mazu Khan Bazar to Khori Road Via Meghdobi Koler Bazar by BC work.                            | Re-Construction & Widening | Tertiary road | Pubail    | Ga-13     | m    | 4000 | 3.20         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 164     | Transport (Road) | Re-Construction of Vararul to Telinagar Road by BC work.   | Re-Construction & Widening | Goli road     | Pubail    | P-14      | m    | 2000 | 1.60         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 165     | Transport (Road) | Re-Construction of Haidarabad Hazipara road Zairatoli by BC work.  | Re-Construction & Widening | Goli road     | Pubail    | P-15      | m    | 1375 | 1.05         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 166     | Transport (Road) | Re-Construction of Kamarzuri DS Emdad house road by BC work.   | Re-Construction & Widening | Goli road     | Gacha     | Ga-14     | m    | 2500 | 1.75         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 167     | Transport (Road) | Re-Construction of Samudda Bazar to Mr. Aweal Master house via Dhaka By Pass by B.C work.                        | Re-Construction & Widening | Goli road     | Pubail    | P-16      | m    | 1000 | 0.70         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 168     | Transport (Road) | Re-Construction of Magdobi High School to Maju Khan Bazar by B.C work  | Re-Construction & Widening | Goli road     | Pubail    | P-17      | m    | 2000 | 1.50         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 169     | Transport (Road) | Re-Construction of Khilgoan Carpeting road to Kamaria Akbor house road by BC work.                               | Re-Construction & Widening | Goli road     | Pubail    | P-18      | m    | 1500 | 1.10         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 170     | Transport (Road) | Re-Construction of Bosugaon Rail line to Dhaka-Bypass via Narayan Kul by B.C work                                | Re-Construction & Widening | Goli road     | Pubail    | P-19      | m    | 1500 | 1.00         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 171     | Transport (Road) | Re-Construction of Nondi Bari Mr. Samsuddin mollah house to Bindan High school road by B.C work                  | Re-Construction & Widening | Goli road     | Pubail    | P-20      | m    | 2000 | 1.50         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 172     | Transport (Road) | Re-Construction of Haidarabad Madrasha to Haidarabad Milon Master house road via Jasim Uddin house road BC work. | Re-Construction & Widening | Goli road     | Pubail    | P-21      | m    | 2500 | 1.93         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 173     | Transport (Road) | Re-Construction of Haidarabad Akass Market to Sokundirbad Bazar by B.C work                                      | Re-Construction & Widening | Goli road     | Pubail    | P-22      | m    | 2500 | 1.90         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 174     | Transport (Road) | Re-Construction of Karamtola to Meghdobi Mridhapara road by BC work.   | Re-Construction & Widening | Goli road     | Pubail    | P-23      | m    | 2000 | 1.90         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 175     | Transport        | Re-Construction of Sataish   | Re-Construction            | Goli road     | Tongi     | T-28      | m    | 1500 | 1.15         | N/A            | Re-Construction of BC road  | JICA           |

| Sl. No. | Sub-Sector       | Name of scheme  | Work Category              | Level of Work | Location  |           | Unit | Qty. | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|------------------|---|----------------------------|---------------|-----------|-----------|------|------|--------------|----------------|---|----------------|
|         |                  |   |                            |               | Area Name | No on map |      |      |              |                |   |                |
|         | (Road)           | Madhu Laskar road by BC work  | on & Widening              |               |           |           |      |      |              |                | No Acquisition of Land No Resettlement                            |                |
| 176     | Transport (Road) | Re-Construction of Khilgoan road to Delower mollah house via Mr. Jakaria house by B.C work.   | Re-Construction & Widening | Goli road     | Pubail    | P-24      | m    | 1500 | 1.05         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 177     | Transport (Road) | Re-Construction of Dhaka-Kaligonj pacca road to shingir Tak west side by B.C work   | Re-Construction & Widening | Goli road     | Pubail    | P-25      | m    | 1500 | 1.00         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 178     | Transport (Road) | Re-Construction of Pubail Mirar Bazar to Talotia Topu house road by B.C work  | Re-Construction & Widening | Goli road     | Pubail    | P-26      | m    | 1500 | 1.20         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 179     | Transport (Road) | Re-Construction of Kamargaon to Kudabo west para Road by BC work.   | Re-Construction & Widening | Goli road     | Pubail    | P-27      | m    | 2000 | 1.60         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 180     |                  | RE-Construction of Magdobi Midra para to Magdobi coler bazar by BC work.  | Re-Construction & Widening | Tertiary road | Pubail    | P-29      | m    | 2000 | 1.60         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 181     |                  | RE-Construction of Easali Govt. Primary School to Akkas Miya house & Magdobi south para Jame Mosque to Mannan Khan's Greveyard by B.C work. | Re-Construction & Widening | Goli road     | Pubail    | P-28      | m    | 3000 | 2.00         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 182     | Transport (Road) | Re-Construction of Sataish Eid-gah road up to Matia para road by B.C work.  | Re-Construction & Widening | Goli road     | Tongi     | T-29      | m    | 1120 | 0.85         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 183     | Transport (Road) | Re-Construction of Dewra Paran Mondal tack road by BC work  | Re-Construction & Widening | Goli road     | Tongi     | T-30      | m    | 950  | 0.75         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 184     | Transport (Road) | Re-Construction of Dewra Khadaldia Tech road by BC work   | Re-Construction & Widening | Goli road     | Tongi     | T-31      | m    | 1050 | 0.50         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 185     | Transport (Road) | Re-Construction of Auchpara Naim uddin mollah road by BC work.  | Re-Construction & Widening | Goli road     | Tongi     | T-32      | m    | 1050 | 0.95         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 186     | Transport (Road) | Re-Construction of Auchpara Momin Uddin Mullah road by BC work.   | Re-Construction & Widening | Goli road     | Tongi     | T-33      | m    | 1400 | 1.05         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 187     | Transport (Road) | Re-Construction of Sataish Afil Uddin bari to Khapara road by B.C work  | Re-Construction & Widening | Goli road     | Tongi     | T-34      | m    | 1250 | 0.95         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 188     | Transport        | Re-Construction of Sayeed Ali   | Re-Construction            | Goli road     | Tongi     | T-35      | m    | 1420 | 1.90         | N/A            | Re-Construction of BC road  | JICA           |

| Sl. No. | Sub-Sector       | Name of scheme  | Work Category  | Level of Work | Location  |           | Unit | Qty. | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|------------------|---|----------------|---------------|-----------|-----------|------|------|--------------|----------------|---|----------------|
|         |                  |   |                |               | Area Name | No on map |      |      |              |                |   |                |
|         | (Road)           | Munchi road by BC work  | on & Widening  |               |           |           |      |      |              |                | No Acquisition of Land No Resettlement                            |                |
| 189     | Transport (Road) | Improvement of Tongi Bazar Stone Factory road by RCC and drian work                         | Reconstruction | Tertiary road | Tongi     | T-36      | m    | 400  | 0.50         | N/A            | Reconstruction of RCC road No Acquisition of Land No Resettlement | JICA           |
| 190     | Transport (Road) | Improvement of Arichpur three storied msoque to Dhaka-Mymensing connecting road by RCC work | Reconstruction | Goli road     | Tongi     | T-37      | m    | 1500 | 1.30         | N/A            | Reconstruction of RCC road No Acquisition of Land No Resettlement | JICA           |
| 191     | Transport (Road) | Improvement of East Arichpur Rubaner Mar tak to Gazi Bari Connecting road by RCC road       | Reconstruction | Goli road     | Tongi     | T-38      | m    | 1050 | 1.00         | N/A            | Reconstruction of RCC road No Acquisition of Land No Resettlement | JICA           |
| 192     | Transport (Road) | Improvement of Pagar Alar Tak road by RCC work  | Reconstruction | Goli road     | Tongi     | T-39      | m    | 500  | 0.50         | N/A            | Reconstruction of RCC road No Acquisition of Land No Resettlement | JICA           |
| 193     | Transport (Road) | Improvement of Pagar Sat rong road by BC work.  | Reconstruction | Tertiary road | Tongi     | T-40      | m    | 600  | 0.60         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 194     | Transport (Road) | Re-Construction of Andarul Main road by BC work   | Reconstruction | Goli road     | Tongi     | T-41      | m    | 1200 | 0.92         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 195     | Transport (Road) | Re-Construction of Sataish Mollah para and Matiapara road by BC work                        | Reconstruction | Goli road     | Tongi     | T-42      | m    | 1000 | 0.75         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | JICA           |
| 196     | Transport (Road) | Re-Construction of Sataish Kazipara road by R.C.C work.                                     | Reconstruction | Goli road     | Tongi     | T-43      | m    | 800  | 0.75         | N/A            | Reconstruction of RCC road No Acquisition of Land No Resettlement | JICA           |
| 197     | Transport (Road) | Improvement of Khartail Matia para road by BC work  | Reconstruction | Goli road     | Tongi     | T-44      | m    | 1000 | 0.62         | N/A            | Reconstruction of RCC road No Acquisition of Land No Resettlement | JICA           |
| 198     | Transport (Road) | Re-Construction of Sataish Naya Bari road by BC work  | Reconstruction | Goli road     | Tongi     | T-45      | m    | 600  | 0.42         | N/A            | Reconstruction of RCC road No Acquisition of Land No Resettlement | JICA           |
| 199     | Transport (Road) | Improvement of Mitti Bari Bot tola to Khapara road by B.C work.                             | Reconstruction | Goli road     | Tongi     | T-46      | m    | 1500 | 1.20         | N/A            | Reconstruction of RCC road No Acquisition of Land No Resettlement | JICA           |
| 200     | Transport (Road) | Re-Construction of Sataish Sifarar Khan road by BC work                                     | Reconstruction | Goli road     | Tongi     | T-47      | m    | 1000 | 0.82         | N/A            | Reconstruction of RCC road No Acquisition of Land No Resettlement | JICA           |
| 201     | Transport (Road) | Improvement of Morkun Graveyard road by BC work   | Reconstruction | Goli road     | Tongi     | T-48      | m    | 2000 | 1.50         | N/A            | Reconstruction of RCC road No Acquisition of Land No Resettlement | JICA           |

| Sl. No. | Sub-Sector             | Name of scheme   | Work Category          | Level of Work | Location  |           | Unit | Qty. | Cost (Crore) | Previous study | Description                 | Source of Fund |
|---------|------------------------|--|------------------------|---------------|-----------|-----------|------|------|--------------|----------------|-----------------------------|----------------|
|         |                        |  |                        |               | Area Name | No on map |      |      |              |                |                             |                |
| 202     | Urban Transport (Road) | Tongi Bazar I.R. I. Road. (Ch 00 -450.00m)   | Improvement of BC road | Road          | Tongi     | A1        | m    | 450  | 0.24         | N/A            | Feeder road to main highway | ADB            |
| 203     | Urban Transport (Road) | Tongi Bazar I.R.I road to Honda factory connecting road. (Ch 00 -185.00m)                  | Improvement of BC road | Road          | Tongi     | A2        | m    | 185  | 0.91         | N/A            | Link road to Feeder road    | ADB            |
| 204     | Urban Transport (Road) | Honda factory road. (Ch 00 -495.00m)   | Improvement of BC road | Road          | Tongi     | A3        | m    | 495  | 0.21         | N/A            | Feeder road to main highway | ADB            |
| 205     | Urban Transport (Road) | Shaheed Sundor Ali road. (Ch 00 -500.00m)  | Improvement of BC road | Road          | Tongi     | A4        | m    | 500  | 0.53         | N/A            | Feeder road to main highway | ADB            |
| 206     | Urban Transport (Road) | Squibb Road. (Ch 00 -505.00m)  | Improvement of BC road | Road          | Tongi     | A5        | m    | 505  | 0.63         | N/A            | Feeder road to main highway | ADB            |
| 207     | Urban Transport (Road) | Auchpara Noimuddin mullah road.(Ch 00 -490.00m)  | Improvement of BC road | Road          | Tongi     | A6        | m    | 490  | 0.70         | N/A            | Feeder road to main highway | ADB            |
| 208     | Urban Transport (Road) | Surtaranga road. (Ch 00 -322.00m)  | Improvement of BC road | Road          | Tongi     | A7        | m    | 322  | 0.26         | N/A            | Feeder road to main highway | ADB            |
| 209     | Urban Transport (Road) | Sur Torongo road to Sultana Razia road. (Ch 00 -80.00m)                                    | Improvement of BC road | Road          | Tongi     | A8        | m    | 80   | 0.16         | N/A            | Link road to Feeder road    | ADB            |
| 210     | Urban Transport (Road) | Sur Torongo road to College road via Genius English Medium School.(Ch 00 -327.00m)         | Improvement of BC road | Road          | Tongi     | A9        | m    | 327  | 0.83         | N/A            | Link road to Feeder road    | ADB            |
| 211     | Urban Transport (Road) | Sultana Razia road and Sultana Razia to College road.(Ch 00 -183.20m), (Ch 183.20-298.20m) | Improvement of BC road | Road          | Tongi     | A10       | m    | 298  | 0.10         | N/A            | Feeder road to main highway | ADB            |
| 212     | Urban Transport (Road) | Auchpara Tongi College Road.(Ch 00 -520.00m)   | Improvement of BC road | Road          | Tongi     | A11       | m    | 520  | 0.39         | N/A            | Feeder road to main highway | ADB            |
| 213     | Urban Transport (Road) | Back Side of Tongi College to Safiuddin Academy Connection road. (Ch 00 -187.00m)          | Improvement of BC road | Road          | Tongi     | A12       | m    | 187  | 0.75         | N/A            | Link road to Feeder road    | ADB            |
| 214     | Urban Transport (Road) | Auchpara Sakil Sorony road.(Ch 00 -240.00m)  | Improvement of BC road | Road          | Tongi     | A13       | m    | 240  | 0.96         | N/A            | Link road to Feeder road    | ADB            |

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|         |                        |   |                        |               | Area Name | No on map |      |      |              |                |                             |                |
| 215     | Urban Transport (Road) | College Roads, Cadet Madrasha to Safiuddin Acadamy road.(Ch 00 -215.00m)                | Improvement of BC road | Road          | Tongi     | A14       | m    | 215  | 0.86         | N/A            | Link road to Feeder road    | ADB            |
| 216     | Urban Transport (Road) | College Road to Safiuddin Acadamy link road (Abul hossain road).(Ch 00 -122.00m).       | Improvement of BC road | Road          | Tongi     | A15       | m    | 122  | 0.44         | N/A            | Link road to Feeder road    | ADB            |
| 217     | Urban Transport (Road) | Auchpara Sayed Ali Road (College road to Safiuddin Acadamy road).(Ch 00 -385.00m)       | Improvement of BC road | Road          | Tongi     | A16       | m    | 385  | 0.12         | N/A            | Link road to Feeder road    | ADB            |
| 218     | Urban Transport (Road) | Auchpara Jam Tola road to Nasir councilor house road.(Ch 00 -170.00m)                   | Improvement of BC road | Road          | Tongi     | A17       | m    | 170  | 0.55         | N/A            | Link road to Feeder road    | ADB            |
| 219     | Urban Transport (Road) | Mukter Bari Road to Baitul Falah Jame mosque Road.(Ch 00 -132.00m)                      | Improvement of BC road | Road          | Tongi     | A18       | m    | 132  | 0.43         | N/A            | Link road to Feeder road    | ADB            |
| 220     | Urban Transport (Road) | Safiuddin Acadamy road.(Ch 00 -520.00m)   | Improvement of BC road | Road          | Tongi     | A19       | m    | 520  | 0.34         | N/A            | Feeder road to main highway | ADB            |
| 221     | Urban Transport (Road) | Auchpara Mukter Bari Road.(Ch 00 -520.00m)  | Improvement of BC road | Road          | Tongi     | A20       | m    | 520  | 0.37         | N/A            | Feeder road to main highway | ADB            |
| 222     | Urban Transport (Road) | Auchpara Shak Hazari Road to Mullah Bari joint road & two branch road. (Ch 00 -124.00m) | Improvement of BC road | Road          | Tongi     | A21       | m    | 124  | 0.45         | N/A            | Link road to Feeder road    | ADB            |
| 223     | Urban Transport (Road) | Auchpara Khapara Road.(Ch 00 -600.00m)  | Improvement of BC road | Road          | Tongi     | A22       | m    | 600  | 0.52         | N/A            | Feeder road to main highway | ADB            |
| 224     | Urban Transport (Road) | Gazipura Sataish road. (Ch 00 -600.00m).  | Improvement of BC road | Road          | Tongi     | A23       | m    | 600  | 0.82         | N/A            | Feeder road to main highway | ADB            |
| 225     | Urban Transport (Road) | Tongi Bazar River side road.(Ch 00 -385.00m)  | Improvement of BC road | Road          | Tongi     | A24       | m    | 385  | 0.21         | N/A            | Feeder road to main highway | ADB            |
| 226     | Urban Transport (Road) | Tongi Bazar Mosque Road.(Ch 00 -190.00m)  | Improvement of BC road | Road          | Tongi     | A25       | m    | 190  | 0.10         | N/A            | Feeder road to main highway | ADB            |
| 227     | Urban Transport (Road) | Tongi Bazar Morish Patti road.(Ch 00 -55.00m)   | Improvement of BC road | Road          | Tongi     | A26       | m    | 55   | 0.33         | N/A            | Feeder road to main highway | ADB            |
| 228     | Urban Transport (Road) | Anarkoly road.(Ch 00 -304.00m)  | Improvement of BC road | Road          | Tongi     | A27       | m    | 304  | 0.30         | N/A            | Feeder road to main highway | ADB            |



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|---------|------------------------|---|------------------------|---------------|-----------|-----------|------|------|--------------|----------------|-----------------------------|----------------|
|         |                        |   |                        |               | Area Name | No on map |      |      |              |                |                             |                |
| 229     | Urban Transport (Road) | Lal miah Matabor road via Basat Khan house.(Ch 00 -485.00m) | Improvement of BC road | Road          | Tongi     | A28       | m    | 485  | 0.18         | N/A            | Feeder road to main highway | ADB            |
| 230     | Urban Transport (Road) | Banana potti road.(Ch 00 -92.00m)                           | Improvement of BC road | Road          | Tongi     | A29       | m    | 92   | 0.31         | N/A            | Link road to Feeder road    | ADB            |
| 231     | Urban Transport (Road) | Nazrul Councilor house road.(Ch 00 -175.00m)                | Improvement of BC road | Road          | Tongi     | A30       | m    | 175  | 0.59         | N/A            | Link road to Feeder road    | ADB            |
| 232     | Urban Transport (Road) | Pator factory road.(Ch 00 -205.00m)                         | Improvement of BC road | Road          | Tongi     | A31       | m    | 205  | 0.69         | N/A            | Link road to Feeder road    | ADB            |
| 233     | Urban Transport (Road) | Arichpur mosque road.(Ch 00 -552.00m)                       | Improvement of BC road | Road          | Tongi     | A32       | m    | 552  | 0.48         | N/A            | Feeder road to main highway | ADB            |
| 234     | Urban Transport (Road) | Adv. Azmat ullah Khan road.(Ch 00 -147.00m)                 | Improvement of BC road | Road          | Tongi     | A33       | m    | 147  | 0.93         | N/A            | Link road to Feeder road    | ADB            |
| 235     | Urban Transport (Road) | Haque saheb house road.(Ch 00 -95.00m)                      | Improvement of BC road | Road          | Tongi     | A34       | m    | 95   | 0.49         | N/A            | Link road to Feeder road    | ADB            |
| 236     | Urban Transport (Road) | Amzad Ali sarker girls school road.(Ch 00 -720.00m)         | Improvement of BC road | Road          | Tongi     | A35       | m    | 720  | 0.27         | N/A            | Feeder road to main highway | ADB            |
| 237     | Urban Transport (Road) | Amzad Khan bari road.(Ch 00 -130.00m)                       | Improvement of BC road | Road          | Tongi     | A36       | m    | 130  | 0.44         | N/A            | Link road to Feeder road    | ADB            |
| 238     | Urban Transport (Road) | Jalil Khan road to girls school road.(Ch 00 -110.00m)       | Improvement of BC road | Road          | Tongi     | A37       | m    | 110  | 0.30         | N/A            | Link road to Feeder road    | ADB            |
| 239     | Urban Transport (Road) | Khair house road. (Ch 00 -240.00m)                          | Improvement of BC road | Road          | Tongi     | A38       | m    | 240  | 0.59         | N/A            | Link road to Feeder road    | ADB            |
| 240     | Urban Transport (Road) | Sikder Master bari road.(Ch 00 -190.00m)                    | Improvement of BC road | Road          | Tongi     | A39       | m    | 190  | 0.43         | N/A            | Link road to Feeder road    | ADB            |
| 241     | Urban Transport (Road) | Three storied mosque west side.(Ch 00 -240.00m)             | Improvement of BC road | Road          | Tongi     | A40       | m    | 240  | 0.78         | N/A            | Link road to Feeder road    | ADB            |

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|---------|------------------------|--|------------------------|---------------|-----------|-----------|------|------|--------------|----------------|-----------------------------|----------------|
|         |                        |  |                        |               | Area Name | No on map |      |      |              |                |                             |                |
| 242     | Urban Transport (Road) | Madumita road. (Ch 00 -313.00m)                            | Improvement of BC road | Road          | Tongi     | A41       | m    | 313  | 0.40         | N/A            | Feeder road to main highway | ADB            |
| 243     | Urban Transport (Road) | Falu Master house road.(Ch 00 -335.00m)                    | Improvement of BC road | Road          | Tongi     | A42       | m    | 335  | 0.76         | N/A            | Link road to Feeder road    | ADB            |
| 244     | Urban Transport (Road) | Modumita Darbar Sarif road.(Ch 00 -278.00m)                | Improvement of BC road | Road          | Tongi     | A43       | m    | 278  | 0.94         | N/A            | Link road to Feeder road    | ADB            |
| 245     | Urban Transport (Road) | Darbar Sarif road mosque road.(Ch 00 -320.00m)             | Improvement of BC road | Road          | Tongi     | A44       | m    | 320  | 0.21         | N/A            | Link road to Feeder road    | ADB            |
| 246     | Urban Transport (Road) | Malak Commissioner house road. (Ch 00 -122.00m)            | Improvement of BC road | Road          | Tongi     | A45       | m    | 122  | 0.41         | N/A            | Link road to Feeder road    | ADB            |
| 247     | Urban Transport (Road) | Masimpur Mosque road.(Ch 00 -191.00m)                      | Improvement of BC road | Road          | Tongi     | A46       | m    | 191  | 0.93         | N/A            | Feeder road to main highway | ADB            |
| 248     | Urban Transport (Road) | Modhumita to Station road.(Ch 00 -425.00m)                 | Improvement of BC road | Road          | Tongi     | A47       | m    | 425  | 0.28         | N/A            | Feeder road to main highway | ADB            |
| 249     | Urban Transport (Road) | Hafiz uddin Bapari road. (Ch 00 -290.00m).                 | Improvement of BC road | Road          | Tongi     | A48       | m    | 290  | 0.12         | N/A            | Link road to Feeder road    | ADB            |
| 250     | Urban Transport (Road) | Gazi Bari road. (Ch 00 -380.00m)                           | Improvement of BC road | Road          | Tongi     | A49       | m    | 380  | 0.12         | N/A            | Link road to Feeder road    | ADB            |
| 251     | Urban Transport (Road) | Hafiz uddin Fakir bari road.(Ch 00 -180.00m)               | Improvement of BC road | Road          | Tongi     | A50       | m    | 180  | 0.50         | N/A            | Link road to Feeder road    | ADB            |
| 252     | Urban Transport (Road) | Tongi Thana east side road to Magna road. (Ch 00 -390.00m) | Improvement of BC road | Road          | Tongi     | A51       | m    | 390  | 0.25         | N/A            | Link road to Feeder road    | ADB            |
| 253     | Urban Transport (Road) | Gazipura Molluk hossain road.(Ch 00 -520.00m)              | Improvement of BC road | Road          | Tongi     | A52       | m    | 520  | 0.35         | N/A            | Feeder road to main highway | ADB            |
| 254     | Urban Transport (Road) | Kazi Khalil Ullah road.(Ch 00 -130.00m)                    | Improvement of BC road | Road          | Tongi     | A53       | m    | 130  | 0.45         | N/A            | Feeder road to main highway | ADB            |
| 255     | Urban Transport (Road) | Kazi mozzamal haque road.(Ch 00 -290.00m)                  | Improvement of BC road | Road          | Tongi     | A54       | m    | 290  | 0.80         | N/A            | Link road to Feeder road    | ADB            |

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|---------|------------------------|---|------------------------|---------------|-----------|-----------|------|------|--------------|----------------|-----------------------------|----------------|
|         |                        |   |                        |               | Area Name | No on map |      |      |              |                |                             |                |
| 256     | Urban Transport (Road) | Earshed Nagar North side road.(Ch 00 -500.00m)                    | Improvement of BC road | Road          | Tongi     | A55       | m    | 500  | 0.79         | N/A            | Feeder road to main highway | ADB            |
| 257     | Urban Transport (Road) | Tak bari road. (Ch 00 -145.00m)                                   | Improvement of BC road | Road          | Tongi     | A56       | m    | 145  | 0.50         | N/A            | Link road to Feeder road    | ADB            |
| 258     | Urban Transport (Road) | Ersad Nagar main road. (Ch 00 -500.00m)                           | Improvement of BC road | Road          | Tongi     | A57       | m    | 500  | 0.38         | N/A            | Feeder road to main highway | ADB            |
| 259     | Urban Transport (Road) | Bonomala Hazi Market to Mullah Bari road.(Ch 00 -500.00m)         | Improvement of BC road | Road          | Tongi     | A58       | m    | 500  | 0.19         | N/A            | Link road to Feeder road    | ADB            |
| 260     | Urban Transport (Road) | Hossain market patrol pump north side road. (Ch 00 -290.00m)      | Improvement of BC road | Road          | Tongi     | A59       | m    | 290  | 0.12         | N/A            | Feeder road to main highway | ADB            |
| 261     | Urban Transport (Road) | Ladhu mollah road. (Ch 00 -500.00m)                               | Improvement of BC road | Road          | Tongi     | A60       | m    | 500  | 0.34         | N/A            | Feeder road to main highway | ADB            |
| 262     | Urban Transport (Road) | Hasan lane main road. (Ch 00 -422.00m)                            | Improvement of BC road | Road          | Tongi     | A61       | m    | 422  | 0.19         | N/A            | Feeder road to main highway | ADB            |
| 263     | Urban Transport (Road) | Hasan lan & Primary school road connecting road. (Ch 00 -138.00m) | Improvement of BC road | Road          | Tongi     | A62       | m    | 138  | 0.65         | N/A            | Link road to Feeder road    | ADB            |
| 264     | Urban Transport (Road) | Dattapara Primary school road.(Ch 00 -410.00m)                    | Improvement of BC road | Road          | Tongi     | A63       | m    | 410  | 0.13         | N/A            | Link road to Feeder road    | ADB            |
| 265     | Urban Transport (Road) | Kazim Uddin Bari road. (Ch 00 -105.00m)                           | Improvement of BC road | Road          | Tongi     | A64       | m    | 105  | 0.37         | N/A            | Link road to Feeder road    | ADB            |
| 266     | Urban Transport (Road) | Bonomala main road. (Ch 00 -500.00m)                              | Improvement of BC road | Road          | Tongi     | A65       | m    | 500  | 0.43         | N/A            | Link road to Feeder road    | ADB            |
| 267     | Urban Transport (Road) | Sayed Mridha road.(Ch 00 -500.00m)                                | Improvement of BC road | Road          | Tongi     | A66       | m    | 500  | 0.43         | N/A            | Feeder road to main highway | ADB            |
| 268     | Urban Transport (Road) | Samaj Kallyan road. (Ch 00 -500.00m)                              | Improvement of BC road | Road          | Tongi     | A67       | m    | 500  | 0.34         | N/A            | Link road to Feeder road    | ADB            |
| 269     | Urban Transport (Road) | Fisons road.(Ch 00 -500.00m)                                      | Improvement of BC road | Road          | Tongi     | A68       | m    | 500  | 0.53         | N/A            | Feeder road to main highway | ADB            |

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|---------|------------------------|--|------------------------|---------------|-----------|-----------|------|------|--------------|----------------|-----------------------------|----------------|
|         |                        |  |                        |               | Area Name | No on map |      |      |              |                |                             |                |
| 270     | Urban Transport (Road) | Fisons road to KBM road.(Ch 00 -202.40m)                               | Improvement of BC road | Road          | Tongi     | A69       | m    | 202  | 0.21         | N/A            | Feeder road to main highway | ADB            |
| 271     | Urban Transport (Road) | CERS road. (Ch 00 -659.00m)  | Improvement of BC road | Road          | Tongi     | A70       | m    | 659  | 0.35         | N/A            | Feeder road to main highway | ADB            |
| 272     | Urban Transport (Road) | Shahid Rowshan road. (Ch 00 -500.00m)                                  | Improvement of BC road | Road          | Bashan    | A71       | m    | 500  | 1.37         | N/A            | Feeder road to main highway | ADB            |
| 273     | Urban Transport (Road) | Bashan (Hoq Market road) to Dhaka-Mymensing road. (Ch 00 -500.00m)     | R.C.C road with drain  | Road          | Bashan    | A72       | m    | 500  | 1.20         | N/A            | Feeder road to main highway | ADB            |
| 274     | Urban Transport (Road) | Noljani Law College to Dhaka-Mymensing road. (Ch 00 -500.00m)          | R.C.C road with drain  | Road          | Bashan    | A73       | m    | 500  | 0.89         | N/A            | Feeder road to main highway | ADB            |
| 275     | Urban Transport (Road) | Board Bazar to Chandara road via Bangabandhu College. (Ch 00 -500.00m) | R.C.C road             | Road          | Gacha     | A74       | m    | 500  | 1.18         | N/A            | Feeder road to main highway | ADB            |
| 276     | Urban Transport (Road) | Chaydana Maleker Bari to Jhajor road. (Ch 00 -500.00m)                 | R.C.C road with drain  | Road          | Gacha     | A75       | m    | 500  | 1.23         | N/A            | Feeder road to main highway | ADB            |
| 277     | Urban Transport (Road) | Borabari Bus stand to Kunia Bazar road. (Ch 00 -500.00m)               | R.C.C road with drain  | Road          | Gacha     | A76       | m    | 500  | 1.04         | N/A            | Feeder road to main highway | ADB            |
| 278     | Urban Transport (Road) | Sign Board foot over bridge to Bat-tola road. (Ch 00 -500.00m)         | R.C.C road             | Road          | Gacha     | A77       | m    | 500  | 0.79         | N/A            | Feeder road to main highway | ADB            |
| 279     | Urban Transport (Road) | Chaydana Hazirpukur to Jhajor road. (Ch 00 -500.00m)                   | R.C.C road             | Road          | Gacha     | A78       | m    | 500  | 0.95         | N/A            | Feeder road to main highway | ADB            |
| 280     | Urban Transport (Road) | Board Bazar Agrani Bank to Khalkoir road. (Ch 00 -500.00m)             | R.C.C road             | Road          | Gacha     | A79       | m    | 500  | 1.37         | N/A            | Feeder road to main highway | ADB            |
| 281     | Urban Transport (Road) | Board Bazar to Hydrabad (Joybangla) road. (Ch 00 -500.00m)             | R.C.C road with drain  | Road          | Gacha     | A80       | m    | 500  | 1.37         | N/A            | Feeder road to main highway | ADB            |
| 282     | Urban Transport (Road) | Mid-Vogra to Islampur (Pegasas) road. (Ch 00 -500.00m)                 | R.C.C road with drain  | Road          | Gacha     | A81       | m    | 500  | 1.27         | N/A            | Feeder road to main highway | ADB            |
| 283     | Urban Transport (Road) | Chaydana to Sarifpur Ojerpar road. (Ch 00 -500.00m)                    | R.C.C road with drain  | Road          | Gacha     | A82       | m    | 500  | 1.18         | N/A            | Feeder road to main highway | ADB            |

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|---------|------------------------|--|-----------------------|---------------|-----------|-----------|------|------|--------------|----------------|-----------------------------|----------------|
|         |                        |  |                       |               | Area Name | No on map |      |      |              |                |                             |                |
| 284     | Urban Transport (Road) | Sign Board to Kamar Juri road. (Ch 00 -500.00m)                        | R.C.C road with drain | Road          | Gacha     | A83       | m    | 500  | 1.37         | N/A            | Feeder road to main highway | ADB            |
| 285     | Urban Transport (Road) | Sign Board to Basura road. (Ch 00 -500.00m)                            | R.C.C road with drain | Road          | Gacha     | A84       | m    | 500  | 1.37         | N/A            | Feeder road to main highway | ADB            |
| 286     | Urban Transport (Road) | Board Bazar to Tin sarak (BRRI) road. (Ch 00 -500.00m)                 | R.C.C road with drain | Road          | Gacha     | A85       | m    | 500  | 1.37         | N/A            | Feeder road to main highway | ADB            |
| 287     | Urban Transport (Road) | Gacha IUT to Kathra Ischorkandi road. (Ch 00 -500.00m)                 | R.C.C road with drain | Road          | Gacha     | A86       | m    | 500  | 1.37         | N/A            | Feeder road to main highway | ADB            |
| 288     | Urban Transport (Road) | Banarupa road. (Ch 00 -500.00m)  | R.C.C road with drain | Road          | Gacha     | A87       | m    | 500  | 1.18         | N/A            | Feeder road to main highway | ADB            |
| 289     | Urban Transport (Road) | Kazi Azimuddin College to Vawal College road. (Ch 00 -500.00m)         | R.C.C road with drain | Road          | Gacha     | A88       | m    | 500  | 1.21         | N/A            | Feeder road to main highway | ADB            |
| 290     | Urban Transport (Road) | Bashan (Jamuna Fan Factory) to Mogar khal road. (Ch 00 -500.00m)       | R.C.C road with drain | Road          | Bashan    | A89       | m    | 500  | 0.95         | N/A            |                             | ADB            |
| 291     | Urban Transport (Road) | Borabari to Chandora Madrasa road. (Ch 00 -500.00m)                    | R.C.C road            | Road          | Bashan    | A90       | m    | 500  | 1.35         | N/A            | Feeder road to main highway | ADB            |
| 292     | Urban Transport        | Vogra Madhapara to Dhaka-Tangail road. (Ch 00 -500.00m)                | R.C.C road with drain | Road          | Bashan    | A91       | m    | 500  | 1.27         | N/A            | Feeder road to main highway | ADB            |
| 293     | Urban Transport        | Dhaka-Mymensing road to Chowrasta Bazar road. (Ch 00 -500.00m)         | R.C.C road with drain | Road          | Bashan    | A92       | m    | 500  | 1.27         | N/A            | Feeder road to main highway | ADB            |
| 294     | Urban Transport        | Dhaka-Mymensing road to Bypass Bazar road. (Ch 00 -500.00m)            | R.C.C road with drain | Road          | Bashan    | A93       | m    | 500  | 2.36         | N/A            | Feeder road to main highway | ADB            |
| 295     | Urban Transport        | Sign Board CDC (Bushra Mill) to Ichordia Mosque road. (Ch 00 -500.00m) | R.C.C road with drain | Road          | Bashan    | A94       | m    | 500  | 1.18         | N/A            | Feeder road to main highway | ADB            |
| 296     | Urban Transport        | Sign Board to Kalembassor road. (Ch 00 -500.00m)                       | R.C.C road with drain | Road          | Gacha     | A95       | m    | 500  | 1.19         | N/A            | Feeder road to main highway | ADB            |
| 297     | Urban Transport        | Chaydana Degerchala to Dhirasram via Jhajor GPS road. (Ch 00 -500.00m) | R.C.C road with drain | Road          | Gacha     | A96       | m    | 500  | 1.18         | N/A            | Feeder road to main highway | ADB            |
| 298     | Urban                  | Sufia Chemical to Sarifpur GPS   | R.C.C road            | Road          | Gacha     | A97       | m    | 500  | 0.95         | N/A            | Feeder road to main highway | ADB            |

| Sl. No. | Sub-Sector             | Name of scheme  | Work Category         | Level of Work | Location  |           | Unit | Qty. | Cost (Crore) | Previous study | Description                 | Source of Fund |
|---------|------------------------|---|-----------------------|---------------|-----------|-----------|------|------|--------------|----------------|-----------------------------|----------------|
|         |                        |   |                       |               | Area Name | No on map |      |      |              |                |                             |                |
|         | Transport              | road. (Ch 00 -500.00m)  | with drain            |               |           |           |      |      |              |                |                             |                |
| 299     | Urban Transport, drain | National University gate to Jamiruddin road. (Ch 00 -500.00m)                     | R.C.C road            | Road          | Gacha     | A98       | m    | 500  | 1.18         | N/A            | Feeder road to main highway | ADB            |
| 300     | Urban Transport, drain | Targacha to Chandara road. (Ch 00 -500.00m)                                       | R.C.C road with drain | Road          | Gacha     | A99       | m    | 500  | 1.18         | N/A            | Feeder road to main highway | ADB            |
| 301     | Urban Transport        | Mogar khal to Bijoy road (Colombia Garments). (Ch 00 -500.00m)                    | R.C.C road with drain | Road          | Gacha     | A100      | m    | 500  | 1.18         | N/A            | Feeder road to main highway | ADB            |
| 302     | Urban Transport        | Sardy gate to Bariali Nolja T&T road. (Ch 00 -500.00m)                            | R.C.C road with drain | Road          | Gacha     | A101      | m    | 500  | 1.37         | N/A            | Feeder road to main highway | ADB            |
| 303     | Urban Transport        | Chaydana (Harican factory) to Dippur natun bazaar road. (Ch 00 -500.00m)          | R.C.C road with drain | Road          | Gacha     | A102      | m    | 500  | 1.37         | N/A            | Feeder road to main highway | ADB            |
| 304     | Urban Transport        | Gacha UP to Gacha Bazar (Polasona) road. (Ch 00 -500.00m)                         | R.C.C road with drain | Road          | Gacha     | A103      | m    | 500  | 1.35         | N/A            | Feeder road to main highway | ADB            |
| 305     | Urban Transport        | Vogra Sarker bari Mansur Ali road. (Ch 00 -500.00m)                               | R.C.C road with drain | Road          | Bashan    | A104      | m    | 500  | 1.04         | N/A            | Feeder road to main highway | ADB            |
| 306     | Urban Transport, drain | Crown Garments to Rowshan road via Sarker bari jame Mosque road. (Ch 00 -500.00m) | R.C.C road            | Road          | Bashan    | A105      | m    | 500  | 1.01         | N/A            | Feeder road to main highway | ADB            |
| 307     | Urban Transport        | East Chandona to Banarupa via Mahub Biddapith road. (Ch 00 -500.00m)              | R.C.C road            | Road          | Bashan    | A106      | m    | 500  | 0.97         | N/A            | Feeder road to main highway | ADB            |
| 308     | Urban Transport        | Gazipur Research Institute Road. (Ch 00 -500.00m)                                 | R.C.C road            | Road          | Bashan    | A107      | m    | 500  | 1.00         | N/A            | Feeder road to main highway | ADB            |
| 309     | Urban Transport        | Syed Ali road. (Ch 00 -500.00m)   | R.C.C road            | Road          | Bashan    | A108      | m    | 500  | 0.92         | N/A            | Feeder road to main highway | ADB            |
| 310     | Urban Transport        | Purbanchal steel mill to Sarifpur road. (Ch 00 -500.00m)                          | R.C.C road            | Road          | Bashan    | A109      | m    | 500  | 1.04         | N/A            | Feeder road to main highway | ADB            |
| 311     | Urban Transport        | SS General Hospital to Vogra Dakkhin para road. (Ch 00 -500.00m)                  | R.C.C road            | Road          | Bashan    | A110      | m    | 500  | 1.00         | N/A            | Feeder road to main highway | ADB            |
| 312     | Urban Transport        | Board Bazar Al-Hera pump to Kolemashsa road. (Ch 00 -500.00m)                     | R.C.C road            | Road          | Bashan    | A111      | m    | 500  | 1.00         | N/A            | Feeder road to main highway | ADB            |
| 313     | Urban Transport, drain | Sign Board Hazi Mainuddin Market to Battola road. (Ch 00 -500.00m)                | R.C.C road            | Road          | Gacha     | A112      | m    | 500  | 1            | N/A            | Feeder road to main highway | ADB            |
| 314     | Urban                  | Sign Board bazaar Abu Sayeed  | R.C.C road            | Road          | Gacha     | A113      | m    | 500  | 1            | N/A            | Feeder road to main highway | ADB            |

| Sl. No. | Sub-Sector             | Name of scheme   | Work Category         | Level of Work | Location  |           | Unit | Qty. | Cost (Crore) | Previous study | Description                 | Source of Fund |
|---------|------------------------|--|-----------------------|---------------|-----------|-----------|------|------|--------------|----------------|-----------------------------|----------------|
|         |                        |  |                       |               | Area Name | No on map |      |      |              |                |                             |                |
|         | Transport              | road. (Ch 00 -500.00m)   |                       |               |           |           |      |      |              |                |                             |                |
| 315     | Urban Transport, drain | Badudha steel shop to Munsi bari road. (Ch 00 -500.00m)                      | R.C.C road            | Road          | Gacha     | A114      | m    | 500  | 1            | N/A            | Feeder road to main highway | ADB            |
| 316     | Urban Transport, drain | Chaydana to Sweter factory road. (Ch 00 -500.00m)                            | R.C.C road            | Road          | Gacha     | A115      | m    | 500  | 1            | N/A            | Feeder road to main highway | ADB            |
| 317     | Urban Transport, drain | Noljani AI- Madina hotel to mid-Noljani road. (Ch 00 -500.00m)               | R.C.C road            | Road          | Gacha     | A116      | m    | 500  | 1            | N/A            | Feeder road to main highway | ADB            |
| 318     | Urban Transport, drain | Noljani LG show room to Bepari para road. (Ch 00 -300.00m)                   | R.C.C road            | Road          | Gacha     | A117      | m    | 300  | 0.8          | N/A            | Link road to main highway   | ADB            |
| 319     | Urban Transport        | Noljani to Mosque road. (Ch 00 -300.00m)                                     | R.C.C road            | Road          | Gacha     | A118      | m    | 300  | 0.8          | N/A            | Link road to main highway   | ADB            |
| 320     | Urban Transport        | Noljani Rajib saw mill to Sarif Kazir bari road. (Ch 00 -150.00m)            | R.C.C road            | Road          | Bashan    | A119      | m    | 150  | 0.40         | N/A            | Link road to main highway   | ADB            |
| 321     | Urban Transport, drain | Mid-Vogra to West para road. (Ch 00 -150.00m)                                | R.C.C road            | Road          | Bashan    | A120      | m    | 150  | 0.4          | N/A            | Link road to main highway   | ADB            |
| 322     | Urban Transport, drain | Noljani Wireless gate to South para road. (Ch 00 -150.00m)                   | R.C.C road            | Road          | Bashan    | A121      | m    | 150  | 0.40         | N/A            | Link road to main highway   | ADB            |
| 323     | Urban Transport        | Board bazaar Mosolla market to Fahim garments road. (Ch 00 -150.00m)         | R.C.C road            | Road          | Bashan    | A122      | m    | 150  | 0.4          | N/A            | Link road to main highway   | ADB            |
| 324     | Urban Transport        | Bashan One Star shop to Habib Miari bari road. (Ch 00 -100.00m)              | R.C.C road            | Road          | Bashan    | A123      | m    | 100  | 0.4          | N/A            | Link r road to main highway | ADB            |
| 325     | Urban Transport        | Hazir pukur to Kamar juri road, west side. (Ch 00 -500.00m)                  | R.C.C road            | Road          | Bashan    | A124      | m    | 500  | 1            | N/A            | Feeder road to main highway | ADB            |
| 326     | Urban Transport        | Sarina CNG to Sarifpur road. (Ch 00 -500.00m)                                | R.C.C road            | Road          | Bashan    | A125      | m    | 500  | 1            | N/A            | Feeder road to main highway | ADB            |
| 327     | Urban Transport        | Board bazaar Mosleuddin road. (Ch 00 -500.00m)                               | R.C.C road            | Road          | Bashan    | A126      | m    | 500  | 1            | N/A            | Feeder road to main highway | ADB            |
| 328     | Urban Transport        | Board bazaar Hannan Garments to West para road. (Ch 00 -500.00m)             | R.C.C road            | Road          | Gacha     | A127      | m    | 500  | 1            | N/A            | Feeder road to main highway | ADB            |
| 329     | Urban Transport        | Board bazaar Rubber Garmnts to Badsha Mia high school road. (Ch 00 -500.00m) | R.C.C road with drain | Road          | Gacha     | A128      | m    | 500  | 1            | N/A            | Feeder road to main highway | ADB            |
| 330     | Urban Transport        | Taragach to Kunia pachar road. (Ch 00 -500.00m)                              | R.C.C road with drain | Road          | Gacha     | A129      | m    | 500  | 1            | N/A            | Feeder road to main highway | ADB            |

| Sl. No. | Sub-Sector           | Name of scheme   | Work Category           | Level of Work | Location  |           | Unit | Qty.       | Cost (Crore) | Previous study | Description  | Source of Fund |
|---------|----------------------|--|-------------------------|---------------|-----------|-----------|------|------------|--------------|----------------|--|----------------|
|         |                      |  |                         |               | Area Name | No on map |      |            |              |                |  |                |
| 331     | Urban Transport      | Kunia to Hazi Akbar Ali market road. (Ch 00 -500.00m)  | R.C.C road              | Road          | Gacha     | A130      | m    | 500        | 1            | N/A            | Feeder road to main highway  | ADB            |
| 332     | Urban Transport      | Hazir pukur to Kamar juri road, east side. (Ch 00 -500.00m)  | R.C.C road              | Road          | Gacha     | A131      | m    | 500        | 1            | N/A            | Feeder road to main highway  | ADB            |
| 333     | Urban Transport      | NHW Chowdhury market to Vogra bazaar road. (Ch 00 -500.00m)  | R.C.C road              | Road          | Gacha     | A132      | m    | 500        | 1            | N/A            | Feeder road to main highway  | ADB            |
| 334     | Urban Transport      | Noljani Furniture bitan to Noljani Maddhapara road. (Ch 00 -500.00m)   | R.C.C road              | Road          | Gacha     | A133      | m    | 500        | 1            | N/A            | Feeder road to main highway  | ADB            |
| 335     | Urban Transport      | NHW Vogra to Viala Tex road. (Ch 00 -150.00m)  | R.C.C road              | Road          | Bashan    | A134      | m    | 150        | 0.4          | N/A            | Link road to main highway  | ADB            |
| 336     | Urban Transport      | Noljani Paler ghat to Poltry firm road. (Ch 00 -400.00m)   | R.C.C road              | Road          | Bashan    | A135      | m    | 400        | 0.8          | N/A            | Link road to main highway  | ADB            |
| 337     | Urban Transport      | Rahman Shopping Complex to Anada housing road. (Ch 00 -150.00m)  | R.C.C road              | Road          | Bashan    | A136      | m    | 150        | 0.4          | N/A            | Link road to main highway  | ADB            |
| 338     | Urban Transport      | Dhaka-Gazipur road to Shahid Smrity School via Tin Sarak.(Ch 00 -1500.00m)   | Improve-ment of BC road | Road          | Gazipur   | A137      | m    | 1500       | 3.00         | N/A            | Feeder road to main highway  | ADB            |
| 339     | Urban Transport      | Dhaka-Gazipur road to Upazila Laxmipura road via Intermax Garments. (Ch 00 -400.00m)   | Improve-ment of BC road | Road          | Gazipur   | A138      | m    | 400        | 0.80         | N/A            | Link road to main highway  | ADB            |
| 340     | Urban Transport      | Dhaka-Gazipur road to Laxmipura via Ataullah Mondal House via Ideal Kinder Garden School. (Ch 00 -510.00m)   | Improve-ment of BC road | Road          | Gazipur   | A139      | m    | 510        | 1.02         | N/A            | Link road to main highway  | ADB            |
| 341     | Urban Transport      | Dhaka-Gazipur road to Zugitola, Krishi Polly. Ch 00-600.00m)   | Improve-ment of BC road | Road          | Gazipur   | A140      | m    | 600        | 1.2          | N/A            | Feeder road to main highway  | ADB            |
| 342     | Urban Transport      | Dhaka-Gazipur road to CIRDY. Ch 00-500.00m)  | Improve-ment of BC road | Road          | Gazipur   | A141      | m    | #####<br># | 1.00         | N/A            | Feeder road to main highway  | ADB            |
| 343     | Urban Transport Road | <b>Periodic Maintenance of (i) Tongi Estema Mazar road (Ch. 00-20m &amp; 60-120m) &amp; (ii) TIC Road (ch. 00- 20m &amp; 80-112m) (GAZIPUR-S) [33330</b> | New construction        | Road          | GCC       | A142      | k.m  | 0.132      | 0.05         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 344     | Urban Transport Road | Rehabilitation of Vowel College Itahata-Kala bagan (Mazlishpur) road (Ch.00-1500m) & Cstruction of 1 nos U-drain on the same road                        | New construction        | Road          | GCC       | A143      | k.m  | 1.500      | 0.59         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |



| Sl. No. | Sub-Sector           | Name of scheme   | Work Category    | Level of Work | Location  |           | Unit | Qty.  | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|----------------------|--|------------------|---------------|-----------|-----------|------|-------|--------------|----------------|---|----------------|
|         |                      |  |                  |               | Area Name | No on map |      |       |              |                |   |                |
|         |                      | under Sadar Upazila Dist. Gazipur. (ID No.333304176)   |                  |               |           |           |      |       |              |                |   |                |
| 345     | Urban Transport Road | Improvement of Konabari Natun Bazar-Ambag GPS (Ch.00-1000m) under Sadar Upazila (ID No.333324093)  | New construction | Road          | GCC       | A144      | k.m  | 1.000 | 0.39         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 346     | Urban Transport Road | Improvement of (A) Mouchak U.P-Laskarchala bazar via Mazukhan,ch. 1482-3450m by Bitumenous carpeting Road(B) Construction of X-Drain on Mouchak U.P-Laskarchala bazar via Mazukhan,ch. at (Ch.1880m, ch.2130m,ch. 2630m,ch. 2830m) under Kaliakoir Upazila (ID No.333323009) | New construction | Road          | GCC       | A145      | k.m  | 1.968 | 0.88         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 347     | Urban Transport Road | Improvement of (A) Mouchak U.P-Laskarchala bazar via Mazukhan,ch. 3450-5450m by Bitumenous carpeting Road (B) Construction of X-Drain on Mouchak U.P-Laskarchala bazar via Mazukhan,ch. at ( Ch.3730m, ch.4930m,ch. 5430m,) under Kaliakoir Upazila (ID No.333323009)        | New construction | Road          | GCC       | A146      | k.m  | 2.968 | 0.88         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 348     | Urban Transport Road | Improvement of Khaikur Bottola-Moiran road (Ch.600-1600m)under Sadar Upazila Dist. Gazipur (ID No.333324080)   | New construction | Road          | GCC       | A147      | k.m  | 1.000 | 0.38         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 349     | Urban Transport Road | Improvement of Sign Board Kamarjuri road (Ch.1200-2300m) under Sadar Upazila (ID No.333324014)   | New construction | Road          | GCC       | A148      | k.m  | 1.000 | 0.40         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 350     | Urban Transport Road | Improvement of Barobari Chandora Madrasha road (Ch.2100-3100m) under Sadar Upazila(ID No.333324020)  | New construction | Road          | GCC       | A149      | k.m  | 1.000 | 0.40         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |

| Sl. No. | Sub-Sector           | Name of scheme   | Work Category    | Level of Work | Location  |           | Unit | Qty.  | Cost (Crore) | Previous study | Description  | Source of Fund |
|---------|----------------------|--|------------------|---------------|-----------|-----------|------|-------|--------------|----------------|--|----------------|
|         |                      |  |                  |               | Area Name | No on map |      |       |              |                |  |                |
| 351     | Urban Transport Road | Improvement of Majukhan-Bridge Ramani Kumar Paita School Haidrabad road. (Ch. 00-600m)under Sadar Upazila Dist. Gazipur (ID No.333344025)  | New construction | Road          | GCC       | A150      | k.m  | 0.600 | 0.19         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 352     | Urban Transport Road | Improvement of Sukundir Bag Bazar-Mazu Khan road (Ch. 00-580m)under Sadar Upazila Dist. Gazipur (ID No.333344085)  | New construction | Road          | GCC       | A151      | k.m  | 0.580 | 0.19         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 353     | Urban Transport Road | Improvement of BRRI South Gate to Samontapur Mosjid-Jugitola Bazar Road at Ch. 000-1000km & Construction of 4 nos 350,610,900 & 980 U-drain on the same road under Sadar Upazila Dist. Gazipur (ID No.333304170) | New construction | Road          | GCC       | A152      | k.m  | 1.000 | 0.50         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 354     | Urban Transport Road | Improvement of Simultoli Taksal Main Gate to Cattar Bazar Road at Ch. 000-1700km under Sadar Upazila Dist. Gazipur (ID No.333304055)   | New construction | Road          | GCC       | A153      | k.m  | 1.700 | 0.40         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 355     | Urban Transport Road | Improvement of Sine board to Kamarjuri Road at Ch. 00-1200m & 2300.00-3300munder Sadar Upazila Dist. Gazipur. (ID No.333304014)  | New construction | Road          | GCC       | A154      | k.m  | 2.200 | 1.27         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 356     | Urban Transport Road | Improvement of Chaydana (Maleks house) to Jajor (Sakrawary) Road at Ch. 260-760m& Construction of 3 nos 330,420 & 610 U-drain on the same road under Sadar Upazila Dist. Gazipur (ID No.333305124)               | New construction | Road          | GCC       | A155      | k.m  | 0.500 | 0.30         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 357     | Urban Transport Road | Improvement of Sing board to Basura Road at Ch. 000-500m & 1500.00-1600munder Sadar Upazila Dist. Gazipur. (ID No.3333204044)  | New construction | Road          | GCC       | A156      | k.m  | 1.000 | 0.26         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 358     | Urban                | Construction Side U-Drain work   | New              | Road          | GCC       | A157      | k.m  | 0.600 | 0.20         | N/A            | Re-Construction of BC road   | GOB            |

| Sl. No. | Sub-Sector           | Name of scheme  | Work Category    | Level of Work | Location  |           | Unit | Qty.           | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|----------------------|---|------------------|---------------|-----------|-----------|------|----------------|--------------|----------------|---|----------------|
|         |                      |   |                  |               | Area Name | No on map |      |                |              |                |   |                |
|         | Transport Road       | on Taknogopara BADC Gate to old Mymensingh Road Samsul-Ulum Madrasha road under Sadar Upazila Dist. Gazipur. (IDNo.33330).  | construction     |               |           |           |      |                |              |                | No Acquisition of Land No Resettlement                            |                |
| 359     | Urban Transport Road | Improvement of Islampur Maddapara Mosque Market-Nama Para Road under Bashon Union (Ch. 00-300m) & Const. of Cross Drain of this Road at Ch. 00-300m under Sadar Upazila (ID No. 333305124)  | New construction | Road          | GCC       | A158      | k.m  | 0.300          | 0.06         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 360     | Urban Transport Road | (A) Improvement of Vowal College-Kajimuddin Chowdhury High School Road at (Ch. 00-1000<br>(B) Const. of U- Drain of this Same Road at Ch. 100,560 & 700m at ch. 03 Nos. 0.625x 0.600m under Sadar Upazila (ID No. 333304139                                 | New construction | Road          | GCC       | A159      | k.m  | 1.800          | 0.38         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 361     | Urban Transport Road | A) Improvement of Dhaka Mymensingh R&H Saydana Purbachal Still Mills to Sharifpur Ozarpara Road at Ch.00-1500m &<br>B) Construction of 3 Nos 0.600 x 0.600m Drain Culvert at Ch. 200m, 350m & 520m in the same road under Sadar Upazila. (ID No. 333305122) | New construction | Road          | GCC       | A160      | k.m  | 1.500<br>1.800 | 0.77         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 362     | Urban Transport Road | Improvement of BOF School Gate to Bhowraid Dakhil Madrasha road Ch. 00 – 1000.00m. (ID No. 333304215)   | New construction | Road          | GCC       | A161      | k.m  | 1.000          | 0.52         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |

| Sl. No. | Sub-Sector           | Name of scheme   | Work Category    | Level of Work | Location  |           | Unit | Qty.  | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|----------------------|--|------------------|---------------|-----------|-----------|------|-------|--------------|----------------|---|----------------|
|         |                      |  |                  |               | Area Name | No on map |      |       |              |                |   |                |
| 363     | Urban Transport Road | Improvement of Masterbari Khailsha Bortha Road Ch. 3300 – 4100.00m. (ID No. 333304004)   | New construction | Road          | GCC       | A162      | k.m  | 0.800 | 0.42         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 364     | Urban Transport Road | Improvement of Dewliabari – Jarun Arzu Textile Mills Road. Ch. 1900 – 2400.00m & Ch. 2700 – 4100m (ID No. 333304033)   | New construction | Road          | GCC       | A163      | k.m  | 1.900 | 0.92         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 365     | Urban Transport Road | Improvement of Ambag Pry. School more to Ambag Modhypara Jame Masjid Road. Ch. 00 – 780.00m (ID No. 333305100)   | New construction | Road          | GCC       | A164      | k.m  | 0.780 | 0.38         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 366     | Urban Transport Road | Improvement of Itahata – Mozlishpur Road. Ch. 1500 – 2000.00m. (ID No. 333304010)  | New construction | Road          | GCC       | A165      | k.m  | 0.500 | 0.25         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 367     | Urban Transport Road | Improvement of Gacha-Polasona Road. Ch. 2400 – 3760.00m. (ID No. 333303004)  | New construction | Road          | GCC       | A166      | k.m  | 1.360 | 0.68         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 368     | Urban Transport Road | Improvement of Gacha Kunia Haydrabad (JoYbangla road) (Ch.1830-2030) Same road 28.082m) bridge (IDNo.-333303007)   | New construction | Road          | GCC       | A167      | k.m  | 0.200 | 0.63         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 369     | Urban Transport Road | Improvement of Porabari-Hatiabo Pymary School- Bonogram via Khilgaon Madrasha road (Ch. 00-1050m)  | New construction | Road          | GCC       | A168      | k.m  | 1.050 | 0.36         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 370     | Urban Transport Road | Improvement of (a) BOF Kharkhana Bazar road (Ch.4480-4680m) (b) BITC Bazar -Cayat Toru pacca road Dashipara Late Kornel bari road (Ch. 350-950m) (IDNo. 333863008) | New construction | Road          | GCC       | A169      | k.m  | 0.800 | 0.28         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 371     | Urban Transport Road | Improvement of Kashimpur-Surabari rice mill - Soyladubi (Saver Gorat road- Paschim Soyladubi Convange Daying Indrs. Ltd.) road   (Ch. 00-810m) (ID No.-33334129)   | New construction | Road          | GCC       | A170      | k.m  | 0.810 | 0.36         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 372     | Urban Transport Road | Improvement of Pubail UP Nandi bari Govt. Pry School - Purbopara Zama Moszid Nagda road  | New construction | Road          | GCC       | A171      | k.m  | 1.000 | 0.40         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |

| Sl. No. | Sub-Sector           | Name of scheme  | Work Category    | Level of Work | Location  |           | Unit | Qty.  | Cost (Crore) | Previous study | Description  | Source of Fund |
|---------|----------------------|---|------------------|---------------|-----------|-----------|------|-------|--------------|----------------|--|----------------|
|         |                      |   |                  |               | Area Name | No on map |      |       |              |                |  |                |
|         |                      | ( Ch.1500- 2500m) (ID No. 333304102)  |                  |               |           |           |      |       |              |                |  |                |
| 373     | Urban Transport Road | Improvement of Surabari raice mill -Soyadubi road ( Ch. 00-965dm) (IDNo-333304129)  | New construction | Road          | GCC       | A172      | k.m  | 0.965 | 0.42         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 374     | Urban Transport Road | Improvement of Dhaka Baypass Samarsinga pacca road (Ch. 00-900m) (IDNo-333304005)   | New construction | Road          | GCC       | A173      | k.m  | 0.900 | 0.22         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 375     | Urban Transport Road | Improvement of Pubail UP Mazukhan bazar - Zashim Uddin Calab Addaya bari Market road (Ch.700-1340m & (Ch. 00-800m)                      | New construction | Road          | GCC       | A174      | k.m  | 1.440 | 0.59         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 376     | Urban Transport Road | Improvement of Chawrasta-Joydebpur RHD Mahbub (Ch.00-400m) (ID No.333305050)  | New construction | Road          | GCC       | A175      | k.m  | 0.400 | 0.27         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 377     | Urban Transport Road | Improvement of Pubail UP Harbaid School - Maruca bridge road (Ch. 00-1500m) (ID No. 333304024)  | New construction | Road          | GCC       | A176      | k.m  | 1.500 | 0.60         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 378     | Urban Transport Road | Improvement of Mazukhan Harbaid Mardrasha road - Shaha bari Market road (Ch. 600-2600m) (IDNo. 333304025)                               | New construction | Road          | GCC       | A177      | k.m  | 2.000 | 0.78         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 379     | Urban Transport Road | Improvement of BOF Kharkhana Bazar (Ch.7180 -8630m) raod (IDNo. 333303006)  | New construction | Road          | GCC       | A178      | k.m  |       | 0.62         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 380     | Urban Transport Road | Improvement of (a) BOF Kharkhana Bazar (Ch.4060-7180m road (b) BOF Kharkhana Bazar Barta School Link road (Ch.00-300m (IDNo. 333303006) | New construction | Road          | GCC       | A179      | k.m  | 3.420 | 0.61         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 381     | Urban Transport Road | Improvement of Udur Dhaka Baypass Amtola - Pubail Samazkolan Amtola-Pubail SamajKolan Asroy Kendro road (Ch.00-1470m) (IDNo. 333305015) | New construction | Road          | GCC       | A180      | k.m  | 1.470 | 0.61         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 382     | Urban Transport Road | Improvement of Kashimpur Kazi Market - Soyladubi road Ch.-----m) IDNo. -----  | New construction | Road          | GCC       | A181      | k.m  | 1.100 |              | N/A            | Re-Construction of BC road<br>No Acquisition of Land No Resettlement | GOB            |
| 383     | Urban Transport      | Improvement of Haydrabad Madrasha Ramoni Kumar Paiyta   | New construction | Road          | GCC       | A182      | k.m  | 1.750 | 0.71         | N/A            | Re-Construction of BC road<br>No Acquisition of Land No              | GOB            |

| Sl. No. | Sub-Sector           | Name of scheme   | Work Category    | Level of Work | Location  |           | Unit | Qty.  | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|----------------------|--|------------------|---------------|-----------|-----------|------|-------|--------------|----------------|---|----------------|
|         |                      |  |                  |               | Area Name | No on map |      |       |              |                |   |                |
|         | Road                 | School Accnec Dairi Poltry Farm road (Ch 00-1750m)   |                  |               |           |           |      |       |              |                | Resettlement  |                |
| 384     | Urban Transport Road | Improvement of Dhaka Tangail R&H Cadda 1st bridge Kataliapara Muktijjodtha Kanu Mia road (Ch.00-425m) IDNo- 333305120          | New construction | Road          | GCC       | A183      | k.m  | 0.425 | 0.19         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 385     | Urban Transport Road | Improvement of Bathun-Mirer Bazar road (Ch.00-1850m) IDNo. 333304034   | New construction | Road          | GCC       | A184      | k.m  | 1.425 | 0.77         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 386     | Urban Transport Road | Improvement of (a) Harbaid-Mazukhan Magedubi road (Ch.4700-5400m) (B) Majukhan-Haydrabad Mardrasha road (Ch 800-1550m) IDNo. - | New construction | Road          | GCC       | A185      | k.m  | 1.450 | 0.50         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 387     | Urban Transport Road | Routine Maintenance of Gacha-Palasona Road [333303004]   | New construction | Road          | GCC       | A186      | k.m  | 2.000 | 0.01         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 388     | Urban Transport Road | Routine Maintenance of Take Nogopara-Bariali Road [333304103]  | New construction | Road          | GCC       | A187      | k.m  | 2.000 | 0.01         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 389     | Urban Transport Road | Periodic Maintenance of Joydebpur-Pubail Road (Ch.00-3000m) under Sadar Upazila, Gazipur.                                      | New construction | Road          | GCC       | A188      | k.m  | 3.000 | 0.61         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 390     | Urban Transport Road | Periodic Maintenance of Joydebpur-Pubail Road (Ch.5100-9000m) under Sadar Upazila, Gazipur.                                    | New construction | Road          | GCC       | A189      | k.m  | 3.900 | 0.72         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 391     | Urban Transport Road | Periodic Maintenance of Konabari-Kashimpur Road (Ch.00-3000m) under Sadar Upazila, Gazipur.                                    | New construction | Road          | GCC       | A190      | k.m  | 3.000 | 0.79         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 392     | Urban Transport Road | Periodic Maintenance of Joydebpur-Pubail Road (Ch.3000-5100m) under Sadar Upazila, Gazipur.                                    | New construction | Road          | GCC       | A191      | k.m  | 2.100 | 0.71         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 393     | Urban Transport Road | Emergency Maintenance of Konabari-Kashimpur road )   | New construction | Road          | GCC       | A192      | k.m  | 2.50  | 0.05         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 394     | Urban Transport Road | Emergency Maintenance of Salna-Kathora road )  | New construction | Road          | GCC       | A193      | k.m  | 3.00  | 0.05         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |

| Sl. No. | Sub-Sector           | Name of scheme  | Work Category    | Level of Work | Location  |           | Unit | Qty.  | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|----------------------|---|------------------|---------------|-----------|-----------|------|-------|--------------|----------------|---|----------------|
|         |                      |   |                  |               | Area Name | No on map |      |       |              |                |   |                |
| 395     | Urban Transport Road | Emergency Maintenance of Kashimpur-Zirani road )  | New construction | Road          | GCC       | A194      | k.m  | 3.00  | 0.05         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 396     | Urban Transport Road | Emergency Maintenance of Kashimpur-Zirani road )  | New construction | Road          | GCC       | A195      | k.m  | 4.90  | 0.05         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 397     | Urban Transport Road | Emergency Maintenance of Kashimpur-GC Biman Poltry road )   | New construction | Road          | GCC       | A196      | k.m  | 4.50  | 0.05         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 398     | Urban Transport Road | Improvement of Shimultali -Kantlia UP Office-Beam Bazar Road at ch.7600-8600m (ID No. 333303001), Sadar Upazila                                     | New construction | Road          | GCC       | A197      | k.m  | 1.000 | 0.57         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 399     | Urban Transport Road | Improvement of Remaing work at Gacha-Polashuna Road (with 400m Drain) under Sadar Upazila, Gazipur. ID No: 333303004                                | New construction | Road          | GCC       | A198      | k.m  | 0.400 | 0.40         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 400     | Urban Transport Road | Improvement of Remaing work at Gacha UP IUT-Kathora Icharkandi Bazar Road (Ch.1000km) under Sadar Upazila, Gazipur. ID No: 333303008                | New construction | Road          | GCC       | A199      | k.m  | 1.000 | 0.50         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 401     | Urban Transport Road | Improvement of SathaiSh Road to Sukhinagar Road via Kharthail Central Jame Mosque Road (Ch.800m) under Sadar Upazila, Gazipur. ID No: 333304230     | New construction | Road          | GCC       | A200      | k.m  | 0.800 | 0.40         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 402     | Urban Transport Road | Improvement of Jaibangla Road Bahar Market to Khaikur Dakhin para Road (Ch.1000m) under Sadar Upazila, Gazipur. ID No: 333304234                    | New construction | Road          | GCC       | A201      | k.m  | 1.000 | 0.55         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 403     | Urban Transport Road | Improvement of Dhaka-Maymansingh Road Borshan Cenema Hal to Chankir tek Road via Tekibari (Ch.1000m) under Sadar Upazila, Gazipur. ID No: 333304236 | New construction | Road          | GCC       | A202      | k.m  | 1.000 | 0.50         | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 404     | Urban Transport      | Improvement of Choidana (Maleker bari)-Jazor (Sakrawari)  | New construction | Road          | GCC       | A203      | k.m  | 1.400 | 0.70         | N/A            | Re-Construction of BC road No Acquisition of Land No              | GOB            |

| Sl. No. | Sub-Sector           | Name of scheme  | Work Category    | Level of Work | Location  |           | Unit | Qty.   | Cost (Crore) | Previous study | Description   | Source of Fund |
|---------|----------------------|---|------------------|---------------|-----------|-----------|------|--------|--------------|----------------|---|----------------|
|         |                      |   |                  |               | Area Name | No on map |      |        |              |                |   |                |
|         | Road                 | Road (Ch.1400m) under Sadar Upazila, Gazipur. ID No: 333305124  |                  |               |           |           |      |        |              |                | Resettlement  |                |
| 405     | Urban Transport Road | Improvement of Remaining work at Khaikur Bat Tola-Mayran Road (Ch.750m) under Sadar Upazila, Gazipur. ID No: 333304080                              | New construction | Road          | GCC       | A204      | k.m  | 0.750  | 0.40         | N/A            | Re-Construction of BC road<br>No Acquisition of Land<br>No Resettlement | GOB            |
| 406     | Urban Transport Road | Improvement of Remaining work at Board Bazar Chandora Via BangoBandhu College Road (with 300m Drain) under Sadar Upazila, Gazipur. ID No: 333303419 | New construction | Road          | GCC       | A205      | k.m  | 0.500  | 0.25         | N/A            | Re-Construction of BC road<br>No Acquisition of Land<br>No Resettlement | GOB            |
| 407     | Urban Transport Road | Improvement of Remaining work at Board Bazar (Agrani Bank)-Khaikur Road (with 250m Bridge Approach) under Sadar Upazila, Gazipur. ID No: 333303408  | New construction | Road          | GCC       | A206      | k.m  | 0.400  | 0.20         | N/A            | Re-Construction of BC road<br>No Acquisition of Land<br>No Resettlement | GOB            |
| 408     | Urban Transport Road | Improvement of Choidana (Degerchala) road to Dhirashram via Jazor Road (With drain) under Sadar Upazila, Gazipur. ID No: 333304017                  | New construction | Road          | GCC       | A207      | k.m  | 0.300  | 0.25         | N/A            | Re-Construction of BC road<br>No Acquisition of Land<br>No Resettlement | GOB            |
| 409     | Urban Transport Road | Improvement of CDC Vushir Mill to Khalpar Road (Abdul Goni road) via West Sahera Khatuner School under Sadar Upazila, Gazipur. ID No:               | New construction | Road          | GCC       | A208      | k.m  | 1.000  | 0.50         | N/A            | Re-Construction of BC road<br>No Acquisition of Land<br>No Resettlement | GOB            |
| 410     | Urban Transport Road | Improvement of Choidana (Hariken Fectory) -Dhitpur-Doulatpur Natun Bazar road under Sadar Upazila, Gazipur. ID No: 333303401                        | New construction | Road          | GCC       | A209      | k.m  | 1.000  | 0.50         | N/A            | Re-Construction of BC road<br>No Acquisition of Land<br>No Resettlement | GOB            |
| 411     | Urban Transport Road | Improvement of Sainboard CDC (Vushir Mill)- Ichardia Mosque road (Link Road) (Ch.1000m) under Sadar Upazila, Gazipur. ID No: 3333034236             | New construction | Road          | GCC       | A210      | k.m  | 1.000  | 0.50         | N/A            | Re-Construction of BC road<br>No Acquisition of Land<br>No Resettlement | GOB            |
| 412     | Urban Transport      | Construction of 75m RCC Bridge on Sukunditbag via Haydrabad   | New construction | Road          | GCC       | A211      | k.m  | 75.000 | 0.31         | N/A            | Re-Construction of BC road<br>No Acquisition of Land<br>No              | GOB            |



| Sl. No.              | Sub-Sector           | Name of scheme  | Work Category    | Level of Work | Location  |           | Unit | Qty.   | Cost (Crore)  | Previous study | Description   | Source of Fund |
|----------------------|----------------------|---|------------------|---------------|-----------|-----------|------|--------|---------------|----------------|---|----------------|
|                      |                      |   |                  |               | Area Name | No on map |      |        |               |                |   |                |
|                      | Road                 | Road at ( Ch. 8000-800m) under Sadar Upazila(ID No.333343003)   |                  |               |           |           |      |        |               |                | Resettlement  |                |
| 413                  | Urban Transport Road | Construction of 90m RCC Girder Bridge on over Kharnali river Masterbari-Khalishabarta Road (Ch. 5500m) under Sadar Upazila (ID.No333304004) | New construction | Road          | GCC       | A212      | k.m  | 90.000 | 0.21          | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 414                  | Urban Transport Road | Reconstruction of (i) Tek Kathora & (ii) Bahadurpur GPS under Sadar Upazila   | New construction | Road          | GCC       | A213      | k.m  | 2.000  | 0.14          | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 415                  | Urban Transport Road | Reconstruction of (i) Itahata & (ii) Laskar Chala Community Primary School under Sadar Upazila  | New construction | Road          | GCC       | A214      | k.m  | 2.000  | 0.14          | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 416                  | Urban Transport Road | Reconstruction of (i) Gacha GPS & (ii) Daulatpur Community under Sadar Upazila  | New construction | Road          | GCC       | A215      | k.m  | 2.000  | 0.14          | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 417                  | Urban Transport Road | Rehabilitation and Periodic Manitenance of Hotapara-Perojali Hatkhola Bazar Road, Upazila Sadar, District: Gazipur                          | New construction | Road          | GCC       | A216      | k.m  |        | 0.23          | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 418                  | Urban Transport Road | (i) Shahid Smrity GPS, (ii) Enayetpur GPS,(ii) Purbo Bahadurpur GPS   | New construction | Road          | GCC       | A217      | k.m  | 3.000  | 0.10          | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 419                  | Urban Transport Road | (i) Poshchim Chandona GPS (ii) Auchpara GPS (iii) Dattapara GPS   | New construction | Road          | GCC       | A218      | k.m  | 3.000  | 0.10          | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 420                  | Urban Transport Road | (i) Kaultia GPS (ii) Goalbathan GPS (iii) Dainkani GPS (iv) Mouchak GPS   | New construction | Road          | GCC       | A219      | k.m  | 4.000  | 0.12          | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 421                  | Urban Transport Road | (i) Demorpara RNGPS (ii) Ichhor GPS (iii) Majhu Khan GPS  | New construction | Road          | GCC       | A220      | k.m  | 3.000  | 0.18          | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| 422                  | Urban Transport Road | (i) Sukundir bag GPS (ii) Udur GPS  | New construction | Road          | GCC       | A221      | k.m  | 2.000  | 0.14          | N/A            | Re-Construction of BC road No Acquisition of Land No Resettlement | GOB            |
| <b>Total amount=</b> |                      |   |                  |               |           |           |      |        | <b>758.75</b> |                |   |                |

### 3) Sector - Water Supply System (WSS)

| Sl. No. | Sub-Sector                   | Name of scheme  | Work Category                                | Level of Work   | Location  |            | Unit   | Qty.  | Cost BDT (Crore) | Previous study                     | Description                              | Source of Fund |     |                                    |      |
|---------|------------------------------|---|--|---|---|------------|--|-------|------------------|------------------------------------|--|----------------|-----|------------------------------------|------|
|         |                              |   |  |   | Area Name   | No. on map |  |       |                  |                                    |  |                |     |                                    |      |
| 1       | 2                            | 3   | 4  | 5   | 6   | 7          | 8  | 9     | 10               | 11                                 | 12                                       | 13             |     |                                    |      |
| 1       | D) Water supply system (WSS) | Installation of water supply System in Bashan and Kowltia zone                                    | a. Installation of Production Deep Tubewell. | New Installation, Land acquisition, No resettlement   | Ward 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23     |            | Nos.   | 6     | 55               | N/A                                | Installation of production deep tubewell | JICA           |     |                                    |      |
|         |                              |   | b. Construction of Overhead Tank             |   |   |            | Nos.   | 2     |                  | N/A                                | Construction of over head tank           |                |     |                                    |      |
|         |                              |   | c. Installation of Pipe Line                 |   |   |            | m  | 20000 |                  | N/A                                | Installation of pipe line                |                |     |                                    |      |
|         |                              | Installation of water supply System in Kashimpur and Konabari zone                                | a. Installation of Production Deep Tubewell. | New Installation, Land acquisition, No resettlement   | Ward 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12 |            | Nos.   | 6     |                  | N/A                                | Installation of production deep tubewell |                |     |                                    |      |
|         |                              |   | b. Construction of Overhead Tank             |   |   |            | Nos.   | 2     |                  | N/A                                | Construction of over head tank           |                |     |                                    |      |
|         |                              |   | c. Installation of Pipe Line                 |   |   |            | m  | 20000 |                  | N/A                                | Installation of pipe line                |                |     |                                    |      |
|         |                              | Installation of water supply System in Gazipur zone   | a. Installation of Production Deep Tubewell. | New Installation, Land acquisition, No resettlement   | Ward 24, 31   |            | Nos.   | 2     |                  | N/A                                | Installation of production deep tubewell |                |     |                                    |      |
|         |                              |   | b. Construction of Overhead Tank             |   |   |            | -  | -     |                  | N/A                                | Construction of over head tank           |                |     |                                    |      |
|         |                              |   | c. Installation of Pipe Line                 |   |   |            | m  | 8000  |                  | N/A                                | Installation of pipe line                |                |     |                                    |      |
|         |                              |   | e. Procurement of vehicles & equipment       |   |   |            | Nos.   | 8     |                  | N/A                                | Procurement of vehicles & equipment      |                |     |                                    |      |
|         |                              | 2   |  | Installation of 6 (six) Nos Production Tube wells, Pumps house, Necessary electrical work &1.00Km distribution pipe line (a) West Arichpur (b) Pagar East para © Auchpara Mokterbari and (d) 1.00km distribution (Connection) pipe lien for all three location. | a. nstallation of Production Tube wells.            |            | New instalation cc ownland no replacement Production tubewell, pump house etc. | Tongi | Nos              | 6.00                               | 24.00                                    |                | N/A | Installation of production tubewel | JICA |
|         |                              |   |  |   | b. Instalation of Pipe line.                        |            |  |       |                  |                                    |  |                |     |                                    |      |
|         |                              | Installation of 6 (six) Nos Production Tube wells, Pumps house, Necessary electrical work &1.00Km | a. nstallation of Production Tube wells.     | New instalation cc ownland no replacement Production  | Tongi, Pubail                                       | Nos        | 6.00   |       | N/A              | Installation of production tubewel |  |                |     |                                    |      |
|         |                              |   | b. Instalation of                            |   |   |            |  |       |                  |                                    |  |                |     |                                    |      |

| Sl. No.              | Sub-Sector                      | Name of scheme   | Work Category  | Level of Work  | Location   |            | Unit | Qty.   | Cost BDT (Crore) | Previous study | Description                        | Source of Fund |
|----------------------|---------------------------------|--|--|--|--|------------|------|--------|------------------|----------------|------------------------------------|----------------|
|                      |                                 |  |  |  | Area Name  | No. on map |      |        |                  |                |                                    |                |
| 1                    | 2                               | 3  | 4  | 5  | 6  | 7          | 8    | 9      | 10               | 11             | 12                                 | 13             |
|                      |                                 | distribution pipe line (a) Dattapara (b) Borodewra (C ) Bonomala and (d) 1.00km distribution (Connection) pipe lien for all three location.  | Pipe line.   | tubewell, pump house etc.  |  |            |      |        |                  |                |                                    |                |
|                      |                                 | Installation of 6 (six) Nos Production Tube wells, Pumps house, Necessary electrical work &1.00Km dustribution pipe line (a) Modhumita road (b) Tongi Bazar (C ) Mudafa and (d) 1.00km distribution (Connection) pipe lien for all three location. | a. nstallation of Production Tube wells.<br>b. Instalation of Pipe line. | New instalation cc ownland no replacement Production tubewell, pump house etc. | Gacha  |            | Nos  | 6.00   |                  | N/A            | Installation of production tubewel |                |
| 4                    |                                 | Rain water harvesting  | Instal rain water harvesting system                                      | New Installation   | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |            | -    | -      | 8.00             | N/A            | GCC Own Fund/ADP                   |                |
| 5                    |                                 | Fesibility study for construction of surface water treatment plant intack from chilai river  | Fesibility study   | Fesibility study   |  |            | LS   | 1      | 0.50             | N/A            | GCC Own Fund/ADP                   |                |
| 3                    | Energy efficient street lighths | Energy Efficiency Improvement Project (ADB TA-7642 BAN)  | Replacement-Energy efficient street lighths                              | Energy efficient street lighths  | Tongi  |            | Nos  | 2745   | Tender By ADB    | N/A            | Pilot Project                      | ADB            |
| 4                    | Pump                            | Energy Efficient Pump  | Replacement-Energy Efficient Pump  | Pump   | Tongi  |            | Nos  | 12.000 | Tender By ADB    | N/A            | Pilot Project                      | ADB            |
| 5                    | solar Panel                     | Electric Solar Panel with Pole   | solar Panel  | solar Panel  | Tongi+Gacha+Pubail   |            | Nos  | 3063   | Tender By ADB    | N/A            | Pilot Project                      | ADB            |
| 6                    | Pump                            | Instillation Deep Tube well Water Pump   | New construction   | Pump   | Tongi  |            | Nos  | 8.000  | Tender By ADB    | N/A            | Pilot Project                      | ADB            |
| <b>Total amount=</b> |                                 |  |  |  |  |            |      |        | <b>87.50</b>     |                |                                    |                |

#### 4) Sector - Municipal Facilities

| Sl. No. | Sub-Sector                                | Name of scheme  | Work Category  | Level of Work    | Location   |           | Unit  | Qty.   | Cost (Crore) | Previous study                         | Description   | Source of Fund   |
|---------|---|---|--|------------------|--|-----------|-------|--------|--------------|--|---|------------------|
|         |   |   |  |                  | Area Name  | No on map |       |        |              |  |   |                  |
| 1       | 2   | 3   | 4  | 5                | 6  | 7         | 8     | 9      | 10           | 11                                     | 12  | 13               |
| 1       | Municipal Facilities                      | Master Plan   |  |                  | GCC MP   |           |       |        | 30.00        | N/A                                    | Approx.   | JICA             |
| 2       |   | Land acquisition for Administrative building of GCC   | Land Acquisition                                     |                  | Gazipur  |           | sq m  | 8030   | 60.00        | N/A                                    | Approx.   | GCC Own Fund/ADP |
| 3       |   | Bus Terminal (Terminal buildibng, Platform, Internal drains)  | Construction of buildibng, Platform, Internal drains | New Construction | Bashan and Kowltia zone  |           | No s. | 1      | 20.00        | N/A                                    | New Construction, Land acquisition, No resettlement | JICA             |
| 3       |   | Truck Terminal (Terminal buildibng, Platform, Internal drains)  | Construction of buildibng, Platform, Internal drains | New Construction | Bashan and Kowltia zone  |           | No s. | 1      | 15.00        | N/A                                    | New Construction, Land acquisition, No resettlement | JICA             |
| 4       |   | Vehicle parking (For motor behicle, CNG, Rickshaw)  | Construction of buildibng, Platform, Internal drains | New Construction | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |           | No s. | 3      | 10.00        | N/A                                    | New Construction, Land acquisition, No resettlement | JICA             |
| 5       |   | Market i). Kitchen market   | Construction of Kitchen market                       | New Construction | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |           | No s. | 2      | 10.00        | N/A                                    | New Construction, Land acquisition, No resettlement | GCC Own Fund/ADP |
| 6       |   | ii) Super market  | Construction of Super market                         | New Construction | GCC  |           | No s. | 3      | 45.00        | N/A                                    | New Construction, Land acquisition, No resettlement | GCC Own Fund/ADP |
| 7       |   | Construction of CC office building , i) Community Centre, ii) Tranning Center for Garments, iii) Picnic Corner, vi) Vocational training center, | Construction of Community Centre                     | New Construction | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |           | No s. | 5      | 68.00        | N/A                                    | New Construction, Land acquisition, No resettlement | GCC Own Fund/ADP |
| 8       |   | ii) Ward office   | Construction of Ward office                          | New Construction | GCC Area   |           | No s. | 57     | 57.00        | N/A                                    | New Construction, Land acquisition, No resettlement | GCC Own Fund/ADP |
| 9       | Medical Collage, Model School, University |   | New Construction                                     | GCC              |  | LS        |       | 100.00 | N/A          | New Construction, Land acquisition, No | GCC Own Fund/ADP                                    |                  |

| Sl. No. | Sub-Sector | Name of scheme  | Work Category                    | Level of Work    | Location  |           | Unit | Qty.  | Cost (Crore) | Previous study | Description  | Source of Fund   |
|---------|------------|---|----------------------------------|------------------|---|-----------|------|-------|--------------|----------------|--|------------------|
|         |            |   |                                  |                  | Area Name   | No on map |      |       |              |                |  |                  |
| 1       | 2          | 3   | 4                                | 5                | 6   | 7         | 8    | 9     | 10           | 11             | 12   | 13               |
|         |            |   |                                  |                  |   |           |      |       |              |                | resettlement   |                  |
| 10      |            | Housing for GCC Employee, Dormitory for GCC Employee  | Housing                          | New Construction | GCC   |           | LS   |       | 20.00        | N/A            | New Construction, Land acquisition, No resettlement    | GCC Own Fund/ADP |
| 11      |            | Safety Network (Lactose Mother Child, Old / Autistics / Widow Grand, Training & Rehabilitation Center for Poor Orphan & Autistics Child, Old/ Widow Home)         |                                  | New Construction | GCC   |           | LS   |       | 100.00       | N/A            |  | JICA             |
| 12      |            | Socio-economical development (Block, Education, Apprentice grant & Social awareness) for slum area.   | Socio-economic development       |                  | GCC   |           | LS   |       | 25.00        | N/A            |  | JICA             |
| 13      |            | Infrastructure development (Water supply, Sanitation, Foot Path, Drain, Road, community center, Day care center, Street light & Waste management ) for slum area. | Socio-Infrastructure development | Upgradation      | GCC   |           | LS   |       | 25.00        | N/A            |  | JICA             |
| 14      |            | Supply Mobile water carrier   | Mobile water carrier             | Supply           | GCC   |           | each | 6     | 2.50         | N/A            |  | JICA             |
| 15      |            | Vehicle for works supervision 4 WD Jeeps  | Jeep                             | Supply           | GCC   |           | No.s | 8     | 7.00         | N/A            |  | JICA             |
| 16      |            | Computer, IT Accessories & Testing Equipment.   | Equipment.                       | Supply           | GCC   |           | LS   |       | 5.00         | N/A            |  | JICA             |
| 17      |            | Streets light, i) Installation of street lighting system and ornamental lighting in Kashimpur and Konabari zone   | a. Pole                          | New Construction | Ward 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12 |           | No.s | 400   | 120.00       | N/A            | New Construction, No Land acquisition, No resettlement | JICA             |
|         |            |   | b. Cable                         | New Construction |   |           | m    | 30000 |              | N/A            | New Construction, No Land acquisition, No resettlement |                  |
|         |            |   | c. Shade with light              | New Construction |   |           | No.s | 800   |              | N/A            | New Construction, No Land acquisition, No resettlement |                  |
|         |            |   | d. Accessories                   | New Purchase     |   |           | -    |       |              | N/A            | New Purchase   |                  |
|         |            | ii) Installation of street  | a. Pole                          | New              | Ward 13, 14,  |           | No   | 600   |              | N/A            | New Construction,                                      |                  |

| Sl. No. | Sub-Sector | Name of scheme   | Work Category   | Level of Work  | Location  |  | Unit  | Qty.  | Cost (Crore) | Previous study | Description  | Source of Fund |                                     |   |                  |
|---------|------------|--|---|--|---|--|---|-------|--------------|----------------|--|----------------|-------------------------------------|---|------------------|
|         |            |  |   |  | Area Name   | No on map  |   |       |              |                |  |                |                                     |   |                  |
| 1       | 2          | 3  | 4   | 5  | 6   | 7  | 8   | 9     | 10           | 11             | 12   | 13             |                                     |   |                  |
|         |            | lighting system and ornamental lighting in Bashan and Kowltia zone   |   | Construction   | 15, 16, 17, 18, 19, 20, 21, 22, 23                      |  | s.  |       |              |                | No Land acquisition, No resettlement                   |                |                                     |   |                  |
|         |            |  | b. Cable  | New Construction                                     |   |  | m   | 45000 |              | N/A            | New Construction, No Land acquisition, No resettlement |                |                                     |   |                  |
|         |            |  | c. Shade with light   | New Construction                                     |   |  | No s.                                       | 1200  |              | N/A            | New Construction, No Land acquisition, No resettlement |                |                                     |   |                  |
|         |            |  | d. Accessories  | New Purchase   |   |  | -   |       |              | N/A            | New Purchase   |                |                                     |   |                  |
|         |            | iii) Installation of street lighting system and ornamental lighting in Gazipur Zone  | a. Pole   | New Construction                                     | Ward 24, 25, 28, 27                                     |  | No s.                                       | 400   |              | N/A            | New Construction, No Land acquisition, No resettlement |                |                                     |   |                  |
|         |            |  | b. Cable  | New Construction                                     |   |  | m   | 30000 |              | N/A            | New Construction, No Land acquisition, No resettlement |                |                                     |   |                  |
|         |            |  | c. Shade with light   | New Construction                                     |   |  | No s.                                       | 800   |              | N/A            | New Construction, No Land acquisition, No resettlement |                |                                     |   |                  |
|         |            |  | d. Accessories  | New Purchase   |   |  | -   |       |              | N/A            | New Purchase   |                |                                     |   |                  |
|         |            | Installation and setting of 25000 nos. street lighting with energy saving bulb along different road side of Tongi & Gazipur area (For DESCO Area). | a. Pole, b. Cable c. Shade with light d. Accessories  | new Installation                                     | Tongi, Gazipur  |  | No s.                                       | 25000 |              | N/A            | New instalation energy saving Valve                    |                |                                     |   |                  |
|         |            |  | Installation and setting of 25000 nos. street lighting with energy saving bulb along different road side of Gazipur CC area (For REB Area). | a. Pole, b. Cable c. Shade with light d. Accessories | new Installation  | Pubail, Gacha, Bason, Kasimpur, Konabari, Kowaltia |   | No s. | 25000        |                | N/A  |                | New instalation energy saving Valve |   |                  |
|         |            |  | Syppling for Beam lifter  | Beam lifter  | Supply  | Gazipur  |   | each  | 12           |                | N/A  |                |                                     |   |                  |
|         |            | Vehical for works supervision 4 WD Jeeps   | Jeep  | Supply   | Gazipur   |  | No s.                                       | 12    |              | N/A            |  |                |                                     |   |                  |
|         |            | 18   |   | Auditorium, Public hall, Culture centre              | Construction of Auditorium, Public hall, Culture centre | New Construction                                   | Kashimpur and Konabari, Bashan and Kowltia, |       | No s.        | 4              | 20.00  |                | N/A                                 | New Construction, Land acquisition, No resettlement | GCC Own Fund/ADP |

| Sl. No.              | Sub-Sector | Name of scheme  | Work Category                                     | Level of Work    | Location   |           | Unit  | Qty. | Cost (Crore)   | Previous study | Description   | Source of Fund   |
|----------------------|------------|---|---|------------------|--|-----------|-------|------|----------------|----------------|---|------------------|
|                      |            |   |   |                  | Area Name  | No on map |       |      |                |                |   |                  |
| 1                    | 2          | 3   | 4   | 5                | 6  | 7         | 8     | 9    | 10             | 11             | 12  | 13               |
|                      |            |   |   |                  | Gazipur Total 3 zone   |           |       |      |                |                |   |                  |
|                      |            | Open space, i) Parck, ii)Theam Park, iii) Eco Park  | Construction of Park                              | New Project      | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |           | No s. | 5    | 100.00         | N/A            | New Construction, Land acquisition, No resettlement | GCC Own Fund/ADP |
|                      |            | vi) Ground, v) Construction of Sohid Minar Complex including open space for meeting, concert, theatre etc.                | Construction of Ground                            | New Project      | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |           | No s. | 5    | 50.00          | N/A            | New Construction, Land acquisition, No resettlement | GCC Own Fund/ADP |
|                      |            | Land scaping and beautification (Planting, Water body Improvement, Monument)  | Planting, Water body Improvement, Monument        | New Project      | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |           | No s. | -    | 50.00          | N/A            |   | GCC Own Fund/ADP |
|                      |            | Land scaping and beautification (Gate and wall, Lighting, Drainage) Road Intersaction Development, Road side land scaping | Construction of Gate and wall, Lighting, Drainage | New Construction | GCC  |           | No s. | 3    | 80.00          | N/A            |   | GCC Own Fund/ADP |
|                      |            | Sports facilities, (Gym, Stadium)   | Construction of Gym, Stadium                      |                  | GCC  |           | No s. | 5    | 50.00          | N/A            | New Construction, Land acquisition, No resettlement | GCC Own Fund/ADP |
| <b>Total amount=</b> |            |   |   |                  |  |           |       |      | <b>1069.50</b> |                |   |                  |

### 5) Sector - Solid Waste Management (SWM)

| Sl. No. | Sub-Sector                  | Name of scheme                                      | Work Category   | Level of Work                  | Location   |            | Unit  | Qty.    | Cost BDT (Crore) | Previous study                      | Description   | Source of Fund |
|---------|-----------------------------|---|---|--------------------------------|--|------------|-------|---------|------------------|-------------------------------------|---|----------------|
|         |                             |   |   |                                | Area Name  | No. on map |       |         |                  |                                     |   |                |
| 1       | 2                           | 3   | 4   | 5                              | 6  | 7          | 8     | 9       | 10               | 11                                  | 12  | 13             |
| 1       | Solide Waste Magement (SWM) | Solide west cleaning for Drain                      | Cleaning  | Cleaning                       | GCC  |            | m     | 25000   | 6.00             | N/A                                 | Drain Cleaning  | JICA           |
| 2       |                             | Transfer Station                                    | a. Construction of fixed / moveable Transfer Station.<br>b. Land acquisition  | New Construction               | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |            | No s. | 20 Nos. | 50               | N/A                                 | New Installation, Land acquisition, No resettlement         | JICA           |
|         |                             | Dumping ground/Land fiide side                      | a. Installation of Dumping ground/Land fiideside Kashimpur and Konabari zone.<br>b. Installation of Dumping ground/Land fiideside Bashan and Kowltia zone.<br>c. Installation of Dumping ground/Land fiideside Gazipur zone | New Installation               | Kashimpur and Konabari zone                                      |            | No s. | 1       |                  | N/A                                 | New Installation, Land acquisition, No resettlement         |                |
|         |                             |   |   | New Installation               | Bashan and Kowltia zone  |            | No s. | 1       |                  | N/A                                 | New Installation, Land acquisition, No resettlement         |                |
|         |                             |   |   | New Installation               | Gazipur zone   |            | No s. | 1       |                  | N/A                                 | New Installation, Land acquisition, No resettlement         |                |
|         |                             | Compost plant                                       | Construction of Compost plant   | New Construction               | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |            | No s. | 3       |                  | N/A                                 | New Installation, Land acquisition, No resettlement         |                |
|         |                             | Road side mobable dustbine                          | Purchase and Installation of Road side mobable dustbine   | New Installation               | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |            | No s. | 250     |                  | N/A                                 | New Purchase and Installation of Road side mobable dustbine |                |
|         |                             | Solide waste recycle plant (3r)                     | Construction of Solide waste recycle plant (3r)   | New Construction               | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |            | No s. | 3       |                  | N/A                                 | New Installation, Land acquisition, No resettlement         |                |
|         |                             | Madicale waste disposal                             | Construction of Madicale waste disposal site  | New Construction               | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |            | No s. | 3       |                  | N/A                                 | New Installation, Land acquisition, No resettlement         |                |
|         |                             | Facility for clean development mechanism activities | Mechanism development   | New Mechanism                  | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone | -          | -     | -       |                  | N/A                                 | Mechanism development                                       |                |
|         | Electronic waste            | Construction of Electronic waste Site               | New Construction  | Kashimpur and Konabari, Bashan |  | No s.      | 3     |         | N/A              | New Installation, Land acquisition, |   |                |



| Sl. No.              | Sub-Sector | Name of scheme  | Work Category                       | Level of Work    | Location   |            | Unit  | Qty.   | Cost BDT (Crore) | Previous study | Description   | Source of Fund    |
|----------------------|------------|---|-------------------------------------|------------------|--|------------|-------|--------|------------------|----------------|---|-------------------|
|                      |            |   |                                     |                  | Area Name  | No. on map |       |        |                  |                |   |                   |
| 1                    | 2          | 3   | 4                                   | 5                | 6  | 7          | 8     | 9      | 10               | 11             | 12  | 13                |
|                      |            |   |                                     |                  | and Kowltia, Gazipur Total 3 zone                                |            |       |        |                  |                | No resettlement   |                   |
|                      |            | Bio-gas plant   | Construction of Bio-gas plant       | New Construction | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |            | No s. | 3      |                  | N/A            | New Installation, Land acquisition, No resettlement       |                   |
|                      |            | Procurement of vehicles & equipment                     | Procurement of vehicles & equipment | New Procurement  | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |            |       |        |                  |                | 15 Garbage Truck, 3 China Dozer, 3 Wheel loader, 1 Tailor |                   |
| 3                    |            | Supplying Excavator for drain Cleaning work.            | Excavator                           | Supply           | GCC  |            | No s  | 12.00  | 60.00            | N/A            |   | JICA              |
|                      |            | Supplying Dumper Truck for Solid management. (3 Ton's)  | Dumper Truck                        | Supply           | GCC  |            | No s  | 40.00  |                  |                |   |                   |
|                      |            | Supplying Dumper Truck for Solid management. ( 5 Ton's) | Dumper Truck                        | Supply           | Tongi  |            | No s  | 30.00  |                  | N/A            |   |                   |
| 4                    |            | Land Acquisition for Dumping Place of GCC               | Land acquisition                    |                  | Tongi  |            | sq m  | 8029.7 | 50               | N/A            | Land acquisition, No resettlement                         | GCC Own Fund/ ADP |
| <b>Total amount=</b> |            |   |                                     |                  |  |            |       |        | <b>166.00</b>    |                |   |                   |

## 6) Sector - Sanitation

| Sl. No. | Sub-Sector    | Name of scheme  | Work Category                   | Level of Work    | Location   |            | Unit  | Qty. | Cost BDT (Crore) | Previous study | Description   | Source of Fund |
|---------|---------------|-----------------|---------------------------------|------------------|--|------------|-------|------|------------------|----------------|---|----------------|
|         |               |                 |                                 |                  | Area Name  | No. on map |       |      |                  |                |   |                |
| 1       | 2             | 3               | 4                               | 5                | 6  | 7          | 8     | 9    | 10               | 11             | 12  | 13             |
| 1       | E) Sanitation | Slaughter house | Construction of Slaughter house | New Construction | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |            | No s. | 8    | 8.00             | N/A            | New Construction, Land acquisition, No resettlement | JICA           |
| 2       |               | Twin pit latrin | Construction of Twin pit latrin | New Construction | Kashimpur and Konabari, Bashan and                               |            | No s. | 600  | 50.00            | N/A            | New Construction, CC Land / Land                    | JICA           |

| Sl. No. | Sub-Sector                           | Name of scheme  | Work Category  | Level of Work                        | Location   |            | Unit  | Qty. | Cost BDT (Crore) | Previous study | Description   | Source of Fund |
|---------|--------------------------------------|---|--|--------------------------------------|--|------------|-------|------|------------------|----------------|---|----------------|
|         |                                      |   |  |                                      | Area Name  | No. on map |       |      |                  |                |   |                |
| 1       | 2                                    | 3   | 4  | 5                                    | 6  | 7          | 8     | 9    | 10               | 11             | 12  | 13             |
|         |                                      | Single pit latrin   | Construction of Single pit latrin                    | New Construction                     | Kowltia, Gazipur Total 3 zone                                    |            | No s. | 900  |                  | N/A            | acquisition, No resettlement                        |                |
|         |                                      | Public Toilet   | Construction of Public Toilet                        | New Construction                     | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |            | No s. | 15   |                  | N/A            | New Construction, Land acquisition, No resettlement |                |
|         |                                      | Wash station  | Construction of                                      | New Construction                     | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |            | No s. | 9    |                  | N/A            | New Construction, Land acquisition, No resettlement |                |
|         |                                      | Transfer station for sludge disposal  | Installation of Transfer station for sludge disposal | New Installation                     | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |            | No s. | 9    |                  | N/A            | New Installation, Land acquisition, No resettlement |                |
|         |                                      | Common septic tank  | Construction of Common septic tank                   | New Construction                     | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |            | No s. | 1500 |                  | N/A            | New Construction, Land acquisition, No resettlement |                |
|         |                                      | Public Health Laboratory (for Chemical and Biological test of the food sample to prevent food adulteration) | Construction of Public Health Laboratory             | New Construction                     | Kashimpur and Konabari, Bashan and Kowltia, Gazipur Total 3 zone |            | No s. | 3    |                  | N/A            | New Construction, Land acquisition, No resettlement |                |
| 3       | Tube well                            | Test Tube-well  | New construction                                     | Tube well                            | Tongi  |            | No s  | 20   | 0.20             | N/A            | New construction                                    | GOB            |
| 4       | Production Tube well                 | Production Tube well  | New construction                                     | Production Tube well                 | Tongi  |            | No s  | 20   | 6.27             | N/A            | New construction                                    | GOB            |
| 5       | Re-construction Production Tube well | Re-construction Production Tube well  | Re-construction                                      | Re-construction Production Tube well | Tongi  |            | No s  | 5    | 1.56             | N/A            | New construction                                    | GOB            |
| 6       | Pump house                           | Pump house  | New construction                                     | Pump house                           | Tongi  |            | No s  | 20   | 1.32             | N/A            | New construction                                    | GOB            |
| 7       | Pump house                           | Pump house/ Over head tank  | New construction                                     | Pump house                           | Tongi  |            | No s  | 2    | 1.36             | N/A            | New construction                                    | GOB            |

| Sl. No.              | Sub-Sector      | Name of scheme                                  | Work Category    | Level of Work   | Location  |            | Unit | Qty. | Cost BDT (Crore) | Previous study | Description      | Source of Fund |
|----------------------|-----------------|---|------------------|-----------------|-----------|------------|------|------|------------------|----------------|------------------|----------------|
|                      |                 |   |                  |                 | Area Name | No. on map |      |      |                  |                |                  |                |
| 1                    | 2               | 3   | 4                | 5               | 6         | 7          | 8    | 9    | 10               | 11             | 12               | 13             |
| 8                    | Pump house      | Re-construction Pump house with electrification | Re-construction  | Pump house      | Tongi     |            | No s | 5    | 0.80             | N/A            | New construction | GOB            |
| 9                    | Pump            | Pump & Execessories                             | Re-construction  | Pump            | Tongi     |            | No s | 20   | 3.20             | N/A            | New construction | GOB            |
| 10                   | Substation      | Electric sub station                            | New construction | Substation      | Tongi     |            | No s | 45   | 5.40             | N/A            | New construction | GOB            |
| 11                   | Building        | three Storied Toilet Building                   | New construction | Building        | Tongi     |            | No s | 21   | 50.40            | N/A            | New construction | GOB            |
| 12                   | Building        | Ojukhana  | New construction | Building        | Tongi     |            | No s | 25   | 1.00             | N/A            | New construction | GOB            |
| 13                   | Pipeline        | Pipeline  | New construction | Pipeline        | Tongi     |            | k. m | 60   | 9.00             | N/A            | New construction | GOB            |
| 14                   | Pipeline        | Re-construction Pipeline                        | Re-construction  | Pipeline        | Tongi     |            | k. m | 2    | 0.30             | N/A            | New construction | GOB            |
| 15                   | Building        | Estema Toile Building                           | New construction | Building        | Tongi     |            | No s | 7    | 4.55             | N/A            | New construction | GOB            |
| 16                   | Billing System  | Degital Billing System                          |                  |                 | Tongi     |            | No s | 5000 | 2.40             | N/A            |                  | GOB            |
| 17                   | Building        | Public toilet                                   | New construction | Building        | Tongi     |            | No s | 10   | 1.00             | N/A            | New construction | GOB            |
| 18                   | Water point     | Water point                                     | New construction | Water point     | Tongi     |            | No s | 100  | 0.40             | N/A            | New construction | GOB            |
| 19                   | Sanitary Latrin | Sanitary Latrin                                 | New construction | Sanitary Latrin | Tongi     |            | No s | 500  | 0.10             | N/A            | New construction | GOB            |
| 20                   | Tube well       | Production Tube well                            | New construction | Tube well       | Gazipur   |            | No s | 10   | 4.00             | N/A            | New construction | GOB            |
| 21                   | Tube well       | Re-construction Production Tube well            | Re-construction  | Tube well       | Gazipur   |            | No s | 3    | 0.60             | N/A            | New construction | GOB            |
| 22                   | Over head tank  | Over head tank                                  | New construction | Over head tank  | Gazipur   |            | No s | 2    | 0.70             | N/A            | New construction | GOB            |
| 23                   | Pipeline        | Re-construction Pipeline                        | Re-construction  | Pipeline        | Gazipur   |            | k. m | 54   | 1.00             | N/A            | New construction | GOB            |
| 24                   | Water point     | Water point                                     | New construction | Water point     | Gazipur   |            | No s | 100  | 0.40             | N/A            | New construction | GOB            |
| <b>Total amount=</b> |                 |   |                  |                 |           |            |      |      | <b>153.96</b>    |                |                  |                |

### Five Years Infrastructure Development Plan of Gazipur City Corporation

| S.I No       | Sector                       | Tentative Cost Crore (BDT) |
|--------------|------------------------------|----------------------------|
| 1            | Drain Improvement            | 354.68                     |
| 2            | Transport                    | 758.75                     |
| 3            | Water Supply System (WSS)    | 87.50                      |
| 4            | Municipal Facilities         | 1069.50                    |
| 5            | Solid Waste Management (SWM) | 166.00                     |
| 6            | Sanitation                   | 153.96                     |
| <b>Total</b> |                              | <b>2590.39</b>             |

## Annex H-1: Administrative Reform Plan of GCC

| Function (1)        | Function (2)   | Detail Activities  | 5 Year Action Plan  | Applicable Activity |                     |                         |                      |                  |                      | Modality of Decentralization and Remarks                            |
|---------------------|--|--|---|---------------------|---------------------|-------------------------|----------------------|------------------|----------------------|---|
|                     |  |  |   | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |                      |   |
|                     |  |  |   |                     |                     |                         |                      | From             | To                   |   |
| SI-1. Public Health | Responsibilities for sanitation. (1.1)                           | Take Measures of proper sanitation.  | Manpower<br>1. Sanitary Inspector - 1<br>2. Cleaning supervisor - 10<br>3. Road cleaner - 740<br>4. Drain cleaner - 150<br>Total manpower - 1002<br>Equipment<br>Trucks -40 with driver and helper provided.<br>2. Van-120 with driver provided.  |                     |                     | ✓                       | ✓                    | CC               | DPHE                 | Coordination  |
|                     | Insanitary Building. (1.2)                                       | Ask owners/possessor of the building to keep the same Clean. (1.2)   | 0   |                     |                     |                         |                      | CC               | DPHE                 | Coordination  |
|                     | Cleaning insanitary building (1.3)                               | In case of failure by the owner/possessor, CC will take steps to clean the same and recover the cost form the owner/possessor. (1.3) | 0   |                     |                     |                         |                      | CC               | DPHE                 | Coordination  |
|                     | Removal, collection and disposal of the waste. (1.4,1.5,1.6,1.7) | Collect waste from household   | 45% waste collected<br>8 NGOs working<br>1 Chief Health officer<br>1 dy. Chief health Officer<br>3 Health Officer<br>10 Medical officer<br>6 Inspector<br>12 Supervisor<br>300 cleaner<br>20 Garbage truck<br>300 Hand Trolley<br>1000 Mobile dustbin<br>400 pair set Gumboot, Gloves and Masks | ✓                   | ✓                   | ✓                       | ✓                    | CC               | Community Group (CG) | Delegation<br>Involve<br>Community Group (CG) into waste collection |

| Function (1) | Function (2) | Detail Activities  | 5 Year Action Plan  | Applicable Activity |                     |                         |                      |                  |     | Modality of Decentralization and Remarks                            |
|--------------|--------------|--|---|---------------------|---------------------|-------------------------|----------------------|------------------|-----|---|
|              |              |  |   | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |     |   |
|              |              |  |   |                     |                     |                         |                      | From             | To  |   |
|              |              | Collect waste from commercial buildings and industrial area                            | 45% waste collected<br>8 NGOs working<br>1 Chief Health officer<br>1 dy. Chief health Officer<br>3 Health Officer<br>10 Medical officer<br>6 Inspector<br>12 Supervisor<br>300 cleaner<br>20 Garbage truck<br>200 Hand Trolley<br>1000 Mobile dustbin |                     |                     | ✓                       | ✓                    | CC               | NGO | Coordination  |
|              |              | Make schedule of waste collection  | Make schedule of waste collection, and maintain   | ✓                   |                     |                         |                      | CC               | CG  | Coordination  |
|              |              | Site selection and Install dustbins  | Land acquisition for dustbin<br>Coordination with DC<br>1000 Mobile dustbin<br>300 Cleaner  |                     |                     | ✓                       | ✓                    | CC               | DC  | Coordination  |
|              |              | Collect waste from primary collecting points or dustbins and transport to dumping site | 300 cleaner<br>20 Garbage truck<br>300 Hand Trolley   |                     |                     | ✓                       | ✓                    |                  |     |   |
|              |              | Monitor the Cleaning work  | 5 pickup<br>10 Motorbike<br>5 Conservancy Inspector<br>15 Conservancy Supervisor<br>10 medical Officer  |                     |                     | ✓                       | ✓                    | CC               | CG  | Delegation<br>Involve<br>Community<br>Group (CG) into<br>monitoring |
|              |              | Monitor waste collection at primary collection points                                  | 5 pickup<br>10 Motorbike<br>5 Conservancy Inspector<br>15 Conservancy Supervisor<br>10 medical Officer  | ✓                   |                     | ✓                       | ✓                    | CC               | CG  | Delegation<br>Involve<br>Community<br>Group (CG) into<br>monitoring |

| Function (1) | Function (2) | Detail Activities                               | 5 Year Action Plan  | Applicable Activity |                     |                         |                      |                  |      | Modality of Decentralization and Remarks |
|--------------|--------------|---|---|---------------------|---------------------|-------------------------|----------------------|------------------|------|--|
|              |              |   |   | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |      |  |
|              |              |   |   |                     |                     |                         |                      | From             | To   |  |
|              |              | Monitor waste collection on the dumping station | 5 Medical officer<br>10 CI<br>20 CS<br>5 pickup<br>10 Motorbike   |                     |                     | ✓                       | ✓                    |                  |      |  |
|              |              | Construct, monitor and maintain waste treatment | Make strategic plan for waste treatment plant   | ✓                   | ✓                   |                         |                      | CC               | DPHE | Coordination                             |
|              |              | Maintain the construction                       | Make strategic plan for waste treatment plant   | ✓                   | ✓                   |                         |                      | CC               | DPHE | Coordination                             |
|              |              | Manage Clinical waste                           | 10 NGOs are selected<br>Training conducted<br>400 Bin installed<br>800 sets materials<br>Land for Incinerator installed<br>sufficient equipment are supplied<br>5 pickup<br>10 Motorbike for monitoring | ✓                   | ✓                   | ✓                       | ✓                    | CC               | NGO  | Delegation                               |
|              |              | Select dumping site                             | Acquired land for site<br>Coordination established with DC  | ✓                   | ✓                   |                         |                      | CC               | DC   | Coordination                             |
|              |              | Construction dumping site                       | 5 dumping site established  |                     | ✓                   | ✓                       | ✓                    | CC               | DC   | Coordination                             |
|              |              | Manage (monitor and maintain) dumping site      | 5 Medical officer<br>10 CI<br>20 CS<br>5 pickup<br>10 Motorbike   |                     | ✓                   | ✓                       | ✓                    | CC               | DC   | Coordination                             |
|              |              | Monitor waste origin pollution                  | Awareness program undertaken<br>5 Medical officer<br>10 CI<br>20 CS<br>5 pickup<br>10 Motorbike   | ✓                   | ✓                   | ✓                       | ✓                    | DoE              | CC   | Coordination / Delegation of function    |

| Function (1)                                    | Function (2)   | Detail Activities   | 5 Year Action Plan  | Applicable Activity |                     |                         |                      |                  |             | Modality of Decentralization and Remarks |   |
|---|--|---|---|---------------------|---------------------|-------------------------|----------------------|------------------|-------------|--|---|
|   |  |   |   | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |             |  |   |
|   |  |   |   |                     |                     |                         |                      | From             | To          |  |   |
|   | Latrines and urinals. (1.8, 1.9, 1.10)                                       | Provide and maintain public latrine and urinals. (1.8)  | Make database of public toilet<br>Make plan for construction of public toilet<br>Make O&M plan  | ✓                   | ✓                   |                         |                      | CC               | NGO<br>DPHE | Coordination                             |   |
|   |  | Occupier of the houses will keep their latrines and urinals in order and clean up to the satisfaction of the Corporation. (1.9)   | Make regulation   | ✓                   | ✓                   |                         |                      | CC               | NGO<br>DPHE | Coordination                             |   |
|   |  | Corporation will issue notice to the owners/occupiers of the houses to keep their latrines and urinals in proper places either by renovations or removing the same. (1.10). | Make regulation   | ✓                   | ✓                   |                         |                      | CC               | NGO<br>DPHE | Coordination                             |   |
| SI-2. Registry of Births , deaths and marriages | Corporation will register all births, deaths and marriages. (2.1)            | Register all births, deaths. Maintain its statistics. (2.1)   | 1. Birth and death register - 1<br>2. Computer operator - 2<br>3. Maulana - 1<br>4. Priest -1<br>5. Caretaker - 67<br>6. MLSS - 1<br>Total 73 |                     |                     |                         | ✓                    | ✓                | CC          | DC                                       | Coordination<br>Introduce e-government system |
|   |  | Maintain statistics for registration of marriages   | Undo  |                     |                     |                         | ✓                    | ✓                | CC          | DC                                       | Coordination<br>Introduce e-government system |
| SI-3. Infectious diseases                       | Measures to prevent infectious diseases and build hospitals. (3.1, 3.2, 3.3) | Take measures to prevent infectious diseases. (3.1)   | •Awareness builds up.<br>•Manpower appointed.<br>• Scheme taken and hospital established to prevent infectious disease.                       | ✓                   | ✓                   |                         |                      | ✓                | CC          | Concerned agencies                       | Coordination                                  |
|   |  | Establish and maintain hospitals for persons affected form infectious diseases. (3.2)   | Have discussion to improve the function in concerned standing committee   |                     | ✓                   |                         |                      |                  | CC          | Concerned agencies                       | Coordination                                  |



| Function (1)                      | Function (2)  | Detail Activities   | 5 Year Action Plan   | Applicable Activity |                     |                         |                      |                  |                    | Modality of Decentralization and Remarks |
|-----------------------------------|---|---|--|---------------------|---------------------|-------------------------|----------------------|------------------|--------------------|--|
|                                   |   |   |  | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |                    |  |
|                                   |   |   |  |                     |                     |                         |                      | From             | To                 |  |
|                                   |   | Make schemes to prevent and control of infectious diseases and its implementations. (3.3) | Have discussion to improve the function in concerned standing committee  |                     | ✓                   |                         |                      | CC               | Concerned agencies | Coordination                             |
| SI-4 Health and maternity centers | Establish, manage and maintain health and maternity centers (4)     | Establish, manage and maintain maternity centers.   | Manpower<br>1. Health officer - 1<br>2. Health Assist. - 2<br>3. Family planning Assist. - 2<br>4. Store keeper - 1<br>5. Office -com- computer operator- 1<br>6. Vaccinator supervisor - 2<br>7. MLSS - 1<br>Total - 10 |                     | ✓                   | ✓                       | ✓                    | CC               | Concerned agencies | Coordination                             |
|                                   |   | Establish manage and maintain centers for the welfare of women, infants and children.     | Undo   |                     |                     |                         |                      | CC               | Concerned agencies | Coordination                             |
|                                   |   | Arrange training of mid –wife.  | Undo   |                     |                     |                         |                      | CC               | Concerned agencies | Coordination                             |
|                                   |   | Provide promotion of family planning.   | Undo   |                     |                     |                         |                      | CC               | Concerned agencies | Coordination                             |
|                                   |   | Other measures to promote health and welfare of women, infants and children.              | Undo   |                     |                     |                         |                      | CC               | Concerned agencies | Coordination                             |
| SI-5 Promotion of public health   | Measures for promoting public health including health education (5) | Take any measures for promoting public health including education in health               | <ul style="list-style-type: none"> <li>Projects taken</li> <li>Manpower appointed</li> </ul>   |                     | ✓                   |                         | ✓                    | CC               | Concerned agencies | Coordination                             |

| Function (1)                                      | Function (2)  | Detail Activities  | 5 Year Action Plan  | Applicable Activity |                     |                         |                      |                  |                    | Modality of Decentralization and Remarks |
|---|---|--|---|---------------------|---------------------|-------------------------|----------------------|------------------|--------------------|--|
|   |   |  |   | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |                    |  |
|   |   |  |   |                     |                     |                         |                      | From             | To                 |  |
| SL-6 Hospital and Dispensaries                    | Establish and maintain hospitals and dispensaries (6.1-6.2)   | Establish hospitals for inhabitants of the city  | Manpower for Hospital<br>1. Consultant (Medicine) - 1<br>2. Resident Physician - 1<br>3. Medical officer - 1<br>4. Medical Technician - 1<br>5. Nurse - 5<br>6. Computer operator - 1<br>7. Medical store keeper - 1<br>8. Cleaner - 3<br>9. MLSS - 3<br>Total - 17 appointed<br>Infrastructure & logistics<br>1. Well-equipped infrastructure for hospital established<br>2. Ambulance - 4<br>3. Truck for carrying dead bodies with a driver & helper - 1<br>4. Adequate medicine provided. | ✓                   | ✓                   | ✓                       | ✓                    | CC               | Concerned agencies | Coordination                             |
|   |   | Maintain such hospitals (6.1)  | Undo  |                     |                     |                         |                      |                  |                    |  |
|   |   | Hospitals and dispensaries maintained by the corporation shall be managed in the manner as may be prescribed (6.2) | Undo  |                     |                     |                         |                      |                  |                    |  |
| SI-7 Medical aid and relief and medical education | Corporation may take such measures as considered fit or if required by the govt, about specified medical aid and relief and medical education (7) | Establish and maintain first- aid centers  | A project taken considering all the aspects provided under this section.  | ✓                   | ✓                   |                         |                      | CC               | Concerned agencies | Coordination                             |
|   |   | Provide mobile medical aid unit  | Undo  |                     |                     |                         |                      | CC               | Concerned agencies | Coordination                             |
|   |   | Encourage to form societies to render medical aid  | Undo  |                     |                     |                         |                      | CC               | Concerned agencies | Coordination                             |
|   |   | Promote medical education  | Undo  |                     |                     |                         |                      | CC               | Concerned agencies | Coordination                             |

| Function (1) | Function (2)                                      | Detail Activities  | 5 Year Action Plan   | Applicable Activity |                     |                         |                      |                  |                    | Modality of Decentralization and Remarks |              |
|--------------|---|--|--|---------------------|---------------------|-------------------------|----------------------|------------------|--------------------|--|--------------|
|              |   |  |  | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |                    |  |              |
|              |   |  |  |                     |                     |                         |                      | From             | To                 |  |              |
|              |   | Payment of grants to institutions for medical relief     | Undo   |                     |                     |                         |                      | CC               | Concerned agencies | Coordination                             |              |
|              |   | Medical examination of school children                   | Undo   |                     |                     |                         |                      | CC               | Concerned agencies | Coordination                             |              |
|              | Water Collection, distribution & Management (8.1) | Follow the Master Plan                                   | Master Plan prepared and followed properly   | ✓                   | ✓                   | ✓                       | ✓                    | CC               | DPHE               | Coordination                             |              |
|              |   | Product tube well pipe line construction                 | 100 Production Tube well 60% coverage  |                     |                     | ✓                       | ✓                    | CC               | DPHE               | Coordination                             |              |
|              |   | Maintain the whole work demand & supply situation        | 60% coverage<br>1 ExEng<br>1 Assts. Eng.<br>2 Sub Assts. Eng.<br>1 water super<br>3 Bill clerk<br>1 accounts<br>3 Bill pion<br>60 Pump driver<br>3 Meter reader<br>3 Mechanics |                     | ✓                   | ✓                       | ✓                    | ✓                | CC                 | DPHE                                     | Coordination |
|              |   | Collect water from production well through ground source | 100 Production Tube well 60% coverage  |                     |                     | ✓                       |                      |                  | CC                 | DPHE                                     | Coordination |
|              |   | Maintenance of Water Supply Network                      | Officials are trained<br>staff recruited   |                     |                     | ✓                       |                      |                  | CC                 | DPHE                                     | Coordination |
|              |   | Provide household with water supply                      | 15000 Households connected<br>60% coverage   |                     |                     | ✓                       |                      |                  | CC                 | DPHE                                     | Coordination |
|              |   | Provide water supply in Commercial area                  | 5000 Nonresidential are connected  |                     |                     | ✓                       |                      |                  | CC                 | DPHE                                     | Coordination |
|              |   | Provide water supply Industrial area                     | 0  |                     |                     |                         |                      |                  | CC                 | Private sector                           | Coordination |
|              |   | Response to complaints on water supply                   | 0  |                     |                     |                         |                      |                  | CC                 | Private sector                           | Coordination |

| Function (1) | Function (2) | Detail Activities   | 5 Year Action Plan  | Applicable Activity |                     |                         |                      |                  |                        | Modality of Decentralization and Remarks |
|--------------|--------------|---|---|---------------------|---------------------|-------------------------|----------------------|------------------|------------------------|--|
|              |              |   |   | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |                        |  |
|              |              |   |   |                     |                     |                         |                      | From             | To                     |  |
|              |              | Collect tariff for water supply   | 3 Bill clerk appointed<br>Awareness program held  | ✓                   |                     |                         | ✓                    | CC               | DPHE                   | Coordination                             |
|              |              | Per time reservation in overhead tank   | 5 Overhead tanks<br>60 Pump house<br>10 KM rehabilitated                                    |                     | ✓                   | ✓                       | ✓                    | CC               | DPHE                   | Coordination                             |
|              |              | Distribute water from water tank  | 5 KM PVC pipes for rehabilitation<br>200 Km pipe lines<br>Related equipment are established | ✓                   | ✓                   | ✓                       | ✓                    | CC               | DPHE                   | Coordination                             |
|              |              | Distribute water for direct pumping   | 72 Water flow meter for production Tube well<br>25000 customer water Meter connected        |                     |                     | ✓                       |                      | CC               | DPHE                   | Coordination                             |
|              |              | Make master plan for water supply   | Master Plan prepared and followed properly<br>Training on planning held                     |                     | ✓                   |                         |                      | CC               | DPHE                   | Coordination                             |
|              |              | Borehole drilling   | 60 Borehole<br>2 Compressor machine<br>2 Rig-Machine installed                              |                     |                     | ✓                       |                      | CC               | DPHE                   | Coordination                             |
|              |              | Establish pump and overhead tank  | 2 Reconstructed of Overhead tank  |                     |                     | ✓                       |                      | CC               | DPHE                   | Coordination                             |
|              |              | Establish water supply pipeline according to master plan (include extension)        | 200 km pipeline are connected   |                     |                     | ✓                       |                      | CC               | DPHE                   | Coordination                             |
|              |              | Establish water treatment plant   | 3 Treatment Plants established<br>2 Rain water reservoir installed                          |                     | ✓                   | ✓                       |                      | CC               | DPHE                   | Coordination                             |
|              |              | Rehabilitation of water supply system (pump, tank, pipelines, treatment plant etc.) | Private partnership established   |                     | ✓                   |                         |                      | CC               | DPHE<br>Private sector | Coordination                             |

| Function (1) | Function (2)                          | Detail Activities   | 5 Year Action Plan   | Applicable Activity |                     |                         |                      |                  |      | Modality of Decentralization and Remarks |  |
|--------------|---------------------------------------|---|--|---------------------|---------------------|-------------------------|----------------------|------------------|------|--|--|
|              |                                       |   |  | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |      |  |  |
|              |                                       |   |  |                     |                     |                         |                      | From             | To   |  |  |
|              |                                       | Frame and execute water supply scheme (8.2)   | 0  |                     | ✓                   |                         |                      | CC               | DPHE | Coordination                             |  |
|              |                                       | Recover charges for supply of piped water (8.3)   | 0  |                     | ✓                   |                         |                      | CC               | DPHE | Coordination                             |  |
|              |                                       | Inspect and control private sources of water supply within the city (8.4)   | Private partnership established  |                     | ✓                   |                         |                      | CC               | DPHE | Coordination                             |  |
|              |                                       | None should procure any source of water without permission from CC (8.5)  | Private partnership established  |                     | ✓                   |                         |                      | CC               | DPHE | Coordination                             |  |
|              |                                       | Issue notice to the owner having control of private source of water supply for drinking purpose to keep the same in good order and protect form contamination (8.6) | Make regulation  |                     | ✓                   |                         |                      | CC               | DPHE | Coordination                             |  |
|              | Water Quality Management (Not in Act) | Water Quality Test  | 1 Laboratory   |                     | ✓                   | ✓                       | ✓                    | CC               | DPHE | Coordination                             |  |
|              |                                       | Water Quality Control   | 1 Laboratory   |                     | ✓                   | ✓                       | ✓                    | CC               | DPHE | Coordination                             |  |
|              | Drainage (8.7, 8.8, 8.9)              | Follow the drainage Master Plan   | Master Prepared  |                     | ✓                   |                         |                      |                  |      |  |  |
|              |                                       | Identify the drainage problem and implement following the master plan   | 5 Surveyors (Permanent)<br>19 Surveyors (Part time)<br>6 Drafts Man<br>30 Chain man<br>30 sets |                     | ✓                   | ✓                       | ✓                    |                  |      |  |  |
|              |                                       | Design the drainage   | Outsourcing  |                     |                     |                         |                      |                  |      |  |  |
|              |                                       | Estimation the drainage   | Outsourcing  |                     |                     |                         |                      |                  |      |  |  |
|              |                                       | Tender for construction   | Introduce e-tendering  |                     | ✓                   | ✓                       |                      |                  |      |  |  |

| Function (1) | Function (2)                                    | Detail Activities   | 5 Year Action Plan  | Applicable Activity |                     |                         |                      |                  |    | Modality of Decentralization and Remarks |
|--------------|---|---|---|---------------------|---------------------|-------------------------|----------------------|------------------|----|--|
|              |   |   |   | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |    |  |
|              |   |   |   |                     |                     |                         |                      | From             | To |  |
|              |   | Construct the drainage  | 3 Ex Eng.<br>6 Assist. Eng.<br>12 Sub Assists Eng.<br>24 Work Assist.<br>3 Roller (8 Ton Capacity)<br>3 Roller (10 Ton capacity)<br>3 Hand Roller |                     |                     | ✓                       | ✓                    |                  |    |  |
|              |   | Monitor for construction  | 12 Sub Assist. Eng.<br>3 Pickup<br>18 Motorbike<br>Make O&M plan  |                     | ✓                   | ✓                       | ✓                    |                  |    |  |
|              |   | Maintain the construction   | 3 Ex Eng.<br>6 Assist. Eng.<br>12 Sub Assist. Eng.<br>24 Work Assist.<br>3 Roller (8 Ton Capacity)<br>3 Roller (10 Ton capacity)<br>3 Hand Roller |                     | ✓                   | ✓                       | ✓                    |                  |    |  |
|              |   | Cleaning the drain  | 250 Cleaners<br>15 Garbage Truck  |                     |                     | ✓                       | ✓                    | CC               | CG | Delegation                               |
|              | Prepare drainage schemes (8.10-8.11)            | Prepare a drainage Scheme for construction of drains at public and private expense  | Make drainage master plan   |                     | ✓                   |                         |                      |                  |    |  |
|              | Bathing and washing places (8.13)               | Fix suitable places for use of public bathing, washing and drying of clothes (8.12) | Make strategic plan to achieve function   |                     | ✓                   |                         |                      |                  |    |  |
|              |   | Prohibit use of any places not so set apart by issuing public notice (8.12)         | Make strategic plan to achieve function   |                     | ✓                   |                         |                      |                  |    |  |
|              | Provide Dhobi Ghart for washer man (8.13, 8.14) | Provide Dhobi Ghart for use of washer man by imposing fees                          | Make strategic plan to achieve function   |                     | ✓                   |                         |                      |                  |    |  |

| Function (1)        | Function (2)  | Detail Activities  | 5 Year Action Plan                      | Applicable Activity |                     |                         |                      |                  |    | Modality of Decentralization and Remarks |
|---------------------|---|--|---|---------------------|---------------------|-------------------------|----------------------|------------------|----|--|
|                     |   |  |   | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |    |  |
|                     |   |  |   |                     |                     |                         |                      | From             | To |  |
|                     |   | (8.13)   |   |                     |                     |                         |                      |                  |    |  |
|                     |   | Provide license to washer man (8.14)   | Make strategic plan to achieve function |                     | ✓                   |                         |                      |                  |    |  |
|                     | Declare any source of water to be a public water course (8.15-8.17)                             | With previous sanction of the Govt; declare spring ,river tank, pond or public stream to be a public water course (8.15)   | Make regulation                         |                     | ✓                   |                         |                      |                  |    |  |
|                     |   | Provide recreational facilities making arrangements for life saving (8.1)  | Make strategic plan to achieve function |                     | ✓                   |                         |                      |                  |    |  |
|                     |   | Develop irrigation, drainage and navigational facilities keeping in consistence with any other law already in force (8.16) | N/A                                     |                     |                     |                         |                      |                  |    |  |
|                     |   | Manage and maintain all watercourse according to the existing law (8.17)   | Make regulation                         |                     | ✓                   |                         |                      |                  |    |  |
| SI-9 Public ferries | Issuing in of license to boats and other vessels plying for hire in a public water-course (9.1) | Issue license to boats and other vessels plying on hire in a public water course (9.1)                                     | N/A                                     |                     |                     |                         |                      |                  |    |  |
|                     | Management and operation of public ferry (9.2)  | Manage and operate of public ferry (9.2)   | N/A                                     |                     |                     |                         |                      |                  |    |  |
|                     |   | Collect toll for use of such ferry. (9.2)  | N/A                                     |                     |                     |                         |                      |                  |    |  |

| Function (1)                      | Function (2)   | Detail Activities   | 5 Year Action Plan   | Applicable Activity |                     |                         |                      |                  |    | Modality of Decentralization and Remarks |
|-----------------------------------|--|---|--|---------------------|---------------------|-------------------------|----------------------|------------------|----|--|
|                                   |  |   |  | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |    |  |
|                                   |  |   |  |                     |                     |                         |                      | From             | To |  |
| SI-10 Public fisheries            | Declaration of public water-course as a public fisheries and its management (10) | Declare of public water-course as a public fisheries  | N/A  |                     |                     |                         |                      |                  |    |  |
|                                   |  | Number of such public fisheries declared  | N/A  |                     |                     |                         |                      |                  |    |  |
|                                   |  | Collect revenue from such fisheries (10)  | N/A  |                     |                     |                         |                      |                  |    |  |
| SI-11. Articles of food and drink | Control on sale of food items and drinks (11.1)                                  | Prohibit manufacture, sale or preparation of specified food or drink in unlicensed place (11.1) | 1. Regulation prepared<br>2. Manpower appointed<br>3. Food and beverages testing laboratories established. |                     | ✓                   | ✓                       | ✓                    |                  |    |  |
|                                   |  | Prohibit import into the city for sale of food and drink without license (11.1)                 | Undo   |                     | ✓                   | ✓                       | ✓                    |                  |    |  |
|                                   |  | Prohibit hawking of specified food and drink in specified place (11.1)                          | Undo   |                     | ✓                   | ✓                       | ✓                    |                  |    |  |
|                                   |  | Regulate time and manner of transport of specified food and drink (11.1)                        | Undo   |                     | ✓                   | ✓                       | ✓                    |                  |    |  |
|                                   |  | Regulate grant and withdrawal of license and levying of fees (11.1)                             | Undo   |                     | ✓                   | ✓                       | ✓                    |                  |    |  |
|                                   |  | Seizure and disposal of diseased animal poultry and fish, and noxious food and drink (11.1)     | Undo   |                     | ✓                   | ✓                       | ✓                    |                  |    |  |
|                                   | Control on supply of milk (11.2, 11.3)   | Prohibit any person to keep milk cattle for sale of milk without license (11.2)                 | Cover the function by the 11.1   |                     |                     |                         |                      |                  |    |  |



| Function (1)         | Function (2)   | Detail Activities  | 5 Year Action Plan   | Applicable Activity |                     |                         |                      |                  |    | Modality of Decentralization and Remarks |
|----------------------|--|--|--|---------------------|---------------------|-------------------------|----------------------|------------------|----|--|
|                      |  |  |  | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |    |  |
|                      |  |  |  |                     |                     |                         |                      | From             | To |  |
|                      |  | Prohibit any person to import or sale of milk without license (11.2)                                       | Cover the function by the 11.2   |                     |                     |                         |                      |                  |    |  |
|                      |  | Prohibit any person to manufacture butter, ghee or diary product using any premises without license (11.2) | Cover the function by the 11.3   |                     |                     |                         |                      |                  |    |  |
|                      |  | Prepare milk supply scheme for supplying of pure milk to the public (11.3)                                 | Cover the function by the 11.4   |                     |                     |                         |                      |                  |    |  |
| SI-12 Public markets | Establish and maintain public markets (12.1, 12.2, 12.3) | Establish and maintain public markets (12.1)   | Training conducted<br>3 Ex Eng.<br>6 Assist. Eng.<br>12 Sub Assist. Eng.<br>24 Work Assist.<br>3 Roller (8 Ton Capacity)<br>3 Roller (10 Ton capacity)<br>3 Hand Roller<br>Make O&M plan |                     | ✓                   | ✓                       | ✓                    |                  |    |  |
|                      |  | Realize salami or advanced rent from the intending occupants for construction of public market (12.2)      | Review the rent<br>Make regulation   |                     | ✓                   |                         |                      |                  |    |  |
|                      |  | Charge fees for use of space and sale of goods (12.3)  | Review the rent<br>Make regulation   |                     | ✓                   |                         |                      |                  |    |  |
|                      |  | Make regulation:   | Make regulation  |                     | ✓                   |                         |                      |                  |    |  |
|                      |  | Charge fees in respect of animals brought for sale of sold (12.3)  | Make regulation  |                     | ✓                   |                         |                      |                  |    |  |

| Function (1)          | Function (2)   | Detail Activities   | 5 Year Action Plan   | Applicable Activity |                     |                         |                      |                  |    | Modality of Decentralization and Remarks |
|-----------------------|--|---|--|---------------------|---------------------|-------------------------|----------------------|------------------|----|--|
|                       |  |   |  | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |    |  |
|                       |  |   |  |                     |                     |                         |                      | From             | To |  |
|                       |  | Charge fees from brokers, commission agents, weigh men and others engaged in the market for their livelihood (12.3)   | Make regulation  |                     | ✓                   |                         |                      |                  |    |  |
| SI-13 Private markets | Establishment and maintenance of private markets (13.1-13.5) | Grant license for establishment and maintenance of private markets (13.1)   | 1. A separate Market section opened with adequate manpower<br>2.Regulation is made.            |                     | ✓                   |                         | ✓                    |                  |    |  |
|                       |  | Check up the private markets which were established before the enforcement of this Act. Verify if the owner applied within three months after the enforcement of this Act and license given. (13.2) | Undo   |                     | ✓                   |                         | ✓                    |                  |    |  |
|                       |  | Charge fees in respect of private markets as per bye-laws (13.3)  | Undo   |                     | ✓                   |                         | ✓                    |                  |    |  |
|                       |  | Direct the owner of the private market to discontinue the same if it goes against public interest (13.4)  | Undo   |                     | ✓                   |                         | ✓                    |                  |    |  |
|                       |  | Direct the owner of the private market to construct and provide facilities for its maintenance within the specified time (13.5)   | Undo   |                     | ✓                   |                         | ✓                    |                  |    |  |
| SI-14 Slaughter house | Provide and maintain of slaughter house (14)                 | Provide and maintain slaughter house within or without the limits of the city (14)  | 1. New slaughter house constructed at different location<br>2. Required manpower is recruited. |                     |                     |                         | ✓                    |                  |    |  |

| Function (1)                       | Function (2)   | Detail Activities  | 5 Year Action Plan   | Applicable Activity |                     |                         |                      |                  |    | Modality of Decentralization and Remarks |
|------------------------------------|--|--|--|---------------------|---------------------|-------------------------|----------------------|------------------|----|--|
|                                    |  |  |  | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |    |  |
|                                    |  |  |  |                     |                     |                         |                      | From             | To |  |
| SI-15 Animals                      | Establishment and maintenance of veterinary hospitals and dispensary and prevention of infectious diseases (15.1,15.2) | Establish and maintain veterinary hospitals and dispensary (15.1)                                    | 1. One animal hospital at Gazipur along with necessary manpower and logistic established<br>2. Veterinary surgeon along with supporting staff appointed. |                     |                     | ✓                       | ✓                    |                  |    |  |
|                                    |  | Charge fees for treatment of animals in such hospitals (15.1)  | Make regulation  |                     | ✓                   |                         |                      |                  |    |  |
|                                    |  | Prevent spread of infectious diseases by compulsory inoculation of animals (15.2)                    | Make strategic plan to achieve function  |                     | ✓                   |                         |                      |                  |    |  |
| Stray animals (15.3-15.6)          |  | Seize, detain and impound the animals if found straying in public places or cultivated land (15.3)   | Make any strategic plant to achieve the function   |                     | ✓                   |                         |                      |                  |    |  |
|                                    |  | Establish and maintain cattle pounds (15.4)  | Undo   |                     | ✓                   |                         |                      |                  |    |  |
|                                    |  | Charge fines and fees for impounding of cattle's (15.4)  | Undo   |                     | ✓                   |                         |                      |                  |    |  |
|                                    |  | Impound animals if found pickled or tethered in any street and public places where prohibited (15.5) | Undo   |                     | ✓                   |                         |                      |                  |    |  |
| Animal homes and farms (15.6-15.8) |  | Establish and maintain animal homes (15.6)   | 1. Animal homes and poultry farms established<br>2. Manpower recruited.  |                     | ✓                   | ✓                       | ✓                    |                  |    |  |
|                                    |  | Establish poultry farm with prior approval of the Govt.  | Make regulation  |                     | ✓                   |                         |                      |                  |    |  |
|                                    |  | Arrange to keep animals of private persons in the said homes (15.6)                                  | Make regulation  |                     | ✓                   |                         |                      |                  |    |  |

| Function (1) | Function (2)                              | Detail Activities   | 5 Year Action Plan   | Applicable Activity |                     |                         |                      |                  |    | Modality of Decentralization and Remarks |
|--------------|---|---|--|---------------------|---------------------|-------------------------|----------------------|------------------|----|--|
|              |   |   |  | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |    |  |
|              |   |   |  |                     |                     |                         |                      | From             | To |  |
|              |   | Establish and maintain cattle farms and poultry farms (15.7)  | Make regulation  |                     | ✓                   |                         |                      |                  |    |  |
|              | Registration of the sale of cattle (15.9) | Register sale of animals (15.8)   | 1. Regulation made.  |                     | ✓                   |                         |                      |                  |    |  |
|              |   | Receipt of payment of fees for such registration (15.8)   | undo   |                     | ✓                   |                         |                      |                  |    |  |
|              | Livestock improvement (15.10)             | Frame and execute livestock scheme (15.9)   | <ul style="list-style-type: none"> <li>Livestock development scheme prepared.</li> <li>Regulation made.</li> </ul> |                     | ✓                   |                         |                      |                  |    |  |
|              | Dangerous animals (15.11)                 | Make regulation defining the animal which are dangerous (15.10)   | <ul style="list-style-type: none"> <li>Regulation made.</li> </ul>   |                     | ✓                   |                         |                      |                  |    |  |
|              |   | Make arrangement to detain or destroy such animals (15.10)  | Undo   |                     | ✓                   |                         |                      |                  |    |  |
|              | Cattle shows (15.12)                      | Hold cattle shows and fairs (15.11)   | <ul style="list-style-type: none"> <li>Regulation prepared.</li> <li>Arrangement of cattle shows made.</li> </ul>  |                     | ✓                   |                         |                      |                  |    |  |
|              |   | Charge fees from the people attending such shows (15.11)  | Undo   |                     | ✓                   |                         |                      |                  |    |  |
|              |   | Establish and maintain zoological garden and collect fees from the people (15.12)                       | Undo   |                     | ✓                   |                         |                      |                  |    |  |
|              | Disposal of carcasses (15.14)             | Dispose of dead bodies of animals within 24 hours after it's death to a place fixed by the corp.(15.13) | <ul style="list-style-type: none"> <li>A place fixed up to dispose of the dead bodies of animals.</li> </ul>       | ✓                   | ✓                   | ✓                       | ✓                    |                  |    |  |

| Function (1)       | Function (2)       | Detail Activities                          | 5 Year Action Plan  | Applicable Activity |                     |                         |                      |                  |       | Modality of Decentralization and Remarks |
|--------------------|--------------------|--|---|---------------------|---------------------|-------------------------|----------------------|------------------|-------|--|
|                    |                    |  |   | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |       |  |
|                    |                    |  |   |                     |                     |                         |                      | From             | To    |  |
| SI-16. Master Plan | Master Plan (16.1) | Make Master plan                           | Master Plan prepared<br>1 Chief Town Planner,<br>2 Deputy Town Planner,<br>5 Assistant Town Planner,<br>5 Sub-Assistant Town Planner<br>10 Surveyor<br>15 PC with GIS software<br>10 GPS<br>Training on GIS conducted<br>RS Data base Management<br>Graphic Software<br>Auto CAD Software<br>Internal and External<br>Coordination body established<br>5 Pickup<br>10 Motorbike | ✓                   | ✓                   | ✓                       | ✓                    | CC               | RAJUK | Devolution                               |
|                    |                    | Monitor and Supervise the Master Plan work | Master Plan prepared<br>1 Chief Town Planner,<br>2 Deputy Town Planner,<br>5 Assistant Town Planner,<br>5 Sub-Assistant Town Planner<br>10 Surveyor<br>15 PC with GIS software<br>10 GPS<br>Training on GIS conducted<br>RS Data base Management<br>Graphic Software<br>Auto CAD Software<br>Internal and External<br>Coordination body established<br>5 Pickup<br>10 Motorbike |                     | ✓                   | ✓                       | ✓                    | CC               | RAJUK | Devolution                               |
|                    |                    | Update master plan                         | Master Plan prepared<br>Master Plan updated<br>Training on GIS and Planning   |                     | ✓                   | ✓                       | ✓                    | CC               | RAJUK | Devolution                               |

| Function (1) | Function (2) | Detail Activities  | 5 Year Action Plan  | Applicable Activity |                     |                         |                      |                  |       | Modality of Decentralization and Remarks |
|--------------|--------------|--|---|---------------------|---------------------|-------------------------|----------------------|------------------|-------|--|
|              |              |  |   | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |       |  |
|              |              |  |   |                     |                     |                         |                      | From             | To    |  |
|              |              | Compose and implementation of five or more yearly projects                                 | Planning Body established<br>5 Years planning proposed<br>Internal coordination established<br>Training on GIS and Planning conducted   | ✓                   | ✓                   | ✓                       | ✓                    | CC               | RAJUK | Devolution                               |
|              |              | Conduct a survey of the City including its history, statistics, public services and others | 10 Surveyor appointed<br>Training on survey conducted<br>5 Town Planner appointed for survey<br>5 Dumpy Level Machine<br>2 Total station<br>Chain measuring Tape<br>5 pickup<br>10 Motorcycle |                     | ✓                   | ✓                       | ✓                    | CC               | RAJUK | Devolution                               |
|              |              | Make restrictions, regulations and prohibitions on building and development site           | Law officer appointed<br>Training on Law activities conducted   |                     | ✓                   |                         | ✓                    | CC               | RAJUK | Devolution                               |
|              |              | Monitor development of sites, and erection and re-erection of buildings                    | Training on Rules/Act conducted<br>5 Town Planner<br>5 Assist. Eng.<br>10 Sub Assist., town planner<br>5 pickup<br>10 Motorbike   |                     | ✓                   | ✓                       | ✓                    | CC               | RAJUK | Devolution                               |
|              |              | Impose the restrictions, regulations and prohibitions made according to master plan        | 1 Law officer appointed<br>2 Magistrate appointed<br>Coordination body established<br>Coordination with Police established  |                     | ✓                   | ✓                       | ✓                    | CC               | RAJUK | Devolution                               |

| Function (1)           | Function (2)   | Detail Activities  | 5 Year Action Plan  | Applicable Activity |                     |                         |                      |                  |       | Modality of Decentralization and Remarks |
|------------------------|--|--|---|---------------------|---------------------|-------------------------|----------------------|------------------|-------|--|
|                        |  |  |   | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |       |  |
|                        |  |  |   |                     |                     |                         |                      | From             | To    |  |
|                        |  | Approve building construction according to the master plan   | 5 Assist. Town planner<br>Software for building management developed<br>Technical data management developed<br>Training on data management and Software conducted |                     | ✓                   | ✓                       | ✓                    | CC               | RAJUK | Devolution                               |
|                        | Site Development Scheme (16.2, 16.3)   | Make division of the site into plots   | Make strategic plan to achieve function   |                     | ✓                   |                         |                      | CC               | RAJUK | Devolution                               |
|                        |  | Provide streets, drains and open spaces  | Make strategic plan to achieve function   |                     | ✓                   |                         |                      | CC               | RAJUK | Devolution                               |
|                        |  | Reserve, transfer or acquire land for public purposes  | Make strategic plan to achieve function   |                     | ✓                   |                         |                      | CC               | RAJUK | Devolution                               |
|                        |  | Estimate and fix price of plots  | Make strategic plan to achieve function   |                     | ✓                   |                         |                      | CC               | RAJUK | Devolution                               |
|                        |  | Execute site development scheme  | Make strategic plan to achieve function   |                     | ✓                   |                         |                      | CC               | RAJUK | Devolution                               |
| SI-17 Building control | Issue notice to the owner of the defective building to take appropriate action to save it's inhabitant, neighboring building and passer-by (17.1-17.2) | Identify the building or anything fixed thereon to be in ruinous state which appears to be dangerous to its inhabitant, neighboring building and passerby (17.1) | Intensive supervision is done continuously.<br>Adequate manpower recruited.<br>Training on building control<br>Establish coordination with law enforcer           |                     | ✓                   |                         |                      | CC               | RAJUK | Devolution                               |
|                        |  | Issue notice to the owner of such building to take appropriate action to save its inhabitants, neighboring building and passerby (17.1)                          | Undo  |                     | ✓                   |                         |                      | CC               | RAJUK | Devolution                               |
|                        |  | In default by the owner, take appropriate action (17.1)  | Undo  |                     | ✓                   |                         |                      | CC               | RAJUK | Devolution                               |

| Function (1)  | Function (2)   | Detail Activities   | 5 Year Action Plan   | Applicable Activity |                     |                         |                      |                  |       | Modality of Decentralization and Remarks |                           |
|---------------|--|---|--|---------------------|---------------------|-------------------------|----------------------|------------------|-------|--|---------------------------|
|               |  |   |  | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |       |  |                           |
|               |  |   |  |                     |                     |                         |                      | From             | To    |  |                           |
|               |  | Realize cost incurred by such action in the form of tax levied on the owner (17.1)  | Undo   |                     | ✓                   |                         |                      | CC               | RAJUK | Devolution                               |                           |
|               |  | Prohibit occupation of building in dangerous condition or unfit for human habitation until it has been suitably repaired (17.2) | Undo   |                     | ✓                   |                         |                      | CC               | RAJUK | Devolution                               |                           |
| SI-18 Streets | Construction and maintenance of public streets (18.1-18.4)       | Provide and maintain public street for comfort and convenience of the inhabitants and visitors (18.1)                           | Assign officials according to approved organogram          |                     |                     |                         | ✓                    | CC               | LGED  | Coordination / Delegation                |                           |
|               |  | No street can be constructed without approval of CC (18.2)  | 0  |                     |                     |                         |                      | CC               | LGED  | Coordination / Delegation                |                           |
|               |  | Maintain streets other than public streets as provided in the bye-laws (18.3)   | Make regulation  |                     | ✓                   |                         |                      |                  | CC    | LGED                                     | Coordination / Delegation |
|               |  | Issue notice specifying thereon for pavement, channeled, improvement or lightening in any street (18.4)                         | 0  |                     |                     |                         |                      |                  | CC    | LGED                                     | Coordination / Delegation |
|               |  | In case of default, complete the work through its agency (18.4)   | 0  |                     |                     |                         |                      |                  | CC    | LGED                                     | Coordination / Delegation |
|               |  | Realize the cost incurred by such action in the form of tax levied on the person concerned (18.4)                               | 0  |                     |                     |                         |                      |                  | CC    | LGED                                     | Coordination / Delegation |
|               |  | General provisions about streets (18.5-18.9)  | Assign names of the streets and fix the name plates (18.5) | 0                   |                     |                         |                      |                  |       |  |                           |
|               | To see that no person destroys or removes the name plates (18.6) | 0   |  |                     |                     |                         |                      |                  |       |  |                           |



| Function (1) | Function (2)                  | Detail Activities   | 5 Year Action Plan   | Applicable Activity |                     |                         |                      |                  |              | Modality of Decentralization and Remarks |
|--------------|-------------------------------|---|--|---------------------|---------------------|-------------------------|----------------------|------------------|--------------|--|
|              |                               |   |  | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |              |  |
|              |                               |   |  |                     |                     |                         |                      | From             | To           |  |
|              |                               | Lay down street lines and building lines (18.7)   | 0  |                     |                     |                         |                      |                  |              |  |
|              |                               | Ask to construct the streets or buildings in conformity with such street lines and boundary lines (18.7)                        | 0  |                     |                     |                         |                      |                  |              |  |
|              |                               | Define nuisances and offences with regard to streets (18.8)   | Make regulation  |                     | ✓                   |                         |                      |                  |              |  |
|              |                               | Make arrangement for its prevention and abatement (18.8)  | Make regulation  |                     | ✓                   |                         |                      |                  |              |  |
|              | Encroachments (18.9-18.12)    | Prevent illegal encroachment on roads, drains, land, buildings, lane or park of the corporation (18.9)                          | Assign officials according to approved organogram<br>Establish coordination system between CC and police |                     | ✓                   |                         | ✓                    | CC               | Law enforcer | Coordination                             |
|              |                               | Remove such encroachment and realize the cost in the form of tax levied on the person responsible for such encroachment (18.10) | Undo   |                     | ✓                   |                         | ✓                    | CC               | Law enforcer | Coordination                             |
|              |                               | Aggrieved person may appeal to the Govt. and decision of the Govt. shall be final (18.11)                                       | Undo   |                     | ✓                   |                         | ✓                    | CC               | Law enforcer | Coordination                             |
|              | Street lighting (18.12-18.14) | Frame and enforce street lighting scheme in the prescribed manner (18.13)   | Make plan for street lighting  |                     | ✓                   |                         |                      |                  |              |  |
|              |                               | Survey the total area & calculate the demand.   | Assign officials according to approved organogram  |                     |                     |                         | ✓                    |                  |              |  |
|              |                               | Site selection  | 0  |                     |                     |                         |                      |                  |              |  |
|              |                               | Tendering   | 0  |                     |                     |                         |                      |                  |              |  |
|              |                               | Installation of Pool and street light   | 0  |                     |                     |                         |                      |                  |              |  |

| Function (1)          | Function (2)   | Detail Activities   | 5 Year Action Plan                                      | Applicable Activity |                     |                         |                      |                  |                | Modality of Decentralization and Remarks |  |
|-----------------------|--|---|---|---------------------|---------------------|-------------------------|----------------------|------------------|----------------|--|--|
|                       |  |   |   | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |                |  |  |
|                       |  |   |   |                     |                     |                         |                      | From             | To             |  |  |
|                       |  | Monitoring and Supervise the installment works  | Establish monitoring system                             | ✓                   |                     |                         |                      |                  |                |  |  |
|                       |  | Maintenance works in Auditorium, market and Offices, Public Toilet and Passenger shed       | Make O&M plan<br>Assign officials according to the plan |                     | ✓                   |                         | ✓                    |                  |                |  |  |
|                       |  | Maintenance   | Make O&M plan<br>Assign officials according to the plan |                     | ✓                   |                         | ✓                    |                  |                |  |  |
|                       |  | Monitor street lighting   | Establish monitoring system                             | ✓                   |                     |                         |                      | CC               | CG             | Delegation                               |  |
|                       |  | Control main switches   | Establish coordination with community                   | ✓                   |                     |                         |                      | CC               | CG             | Delegation                               |  |
|                       |  | Expand electricity in new area  | Establish coordination with concerned agencies          | ✓                   |                     |                         |                      | CC               | PWB            | Coordination                             |  |
|                       |  | Electric bill pay   | 0   |                     |                     |                         |                      | CC               | PWB            | Coordination                             |  |
|                       | Watering of public street (18.14)                        | Take steps for watering of public streets for comfort and convenience of the public (18.14) | Make strategic plan to achieve function                 |                     | ✓                   |                         |                      |                  |                |  |  |
| SI-19 Traffic Control | Arrangement for control and regulation of traffic (19.1) | Arrangement for control and regulation of traffic (19.1)                                    | • Necessary manpower recruited.<br>• Fund provided.     |                     | ✓                   |                         | ✓                    | CC               | Traffic Police | Coordination                             |  |
|                       |  | Finalize bylaw on road and traffic rules  | Undo  |                     | ✓                   |                         |                      | CC               | Traffic Police | Coordination                             |  |
|                       |  | Dissemination of bylaw  | Undo  |                     | ✓                   |                         |                      | CC               | Traffic Police | Coordination                             |  |
|                       |  | Enforcement of bylaw  | Undo  |                     | ✓                   |                         |                      | CC               | Traffic Police | Coordination                             |  |
|                       | Public vehicle (19.2, 19.3)                              | Issue silence for public vehicle  | Make regulation   |                     | ✓                   |                         |                      | CC               | Traffic Police | Coordination                             |  |
|                       |  | Fix the rate of fares for the use of public vehicles  | Make regulation   |                     | ✓                   |                         |                      | CC               | Traffic Police | Coordination                             |  |

| Function (1)                                    | Function (2)   | Detail Activities   | 5 Year Action Plan  | Applicable Activity |                     |                         |                      |                       |                                 | Modality of Decentralization and Remarks |
|---|--|---|---|---------------------|---------------------|-------------------------|----------------------|-----------------------|---------------------------------|--|
|   |  |   |   | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization      |                                 |  |
|   |  |   |   |                     |                     |                         |                      | From                  | To                              |  |
| SI-20 Public safety                             | Firefighting (20.1-20.2)   | Maintain a fire brigade for prevention and extinguishing of fire (20.1)   | CC develops its own fire-fighting unit with necessary vehicle, equipment and accessories gradually on long term basis. Manpower recruited and training given. |                     | ✓                   |                         |                      | Fire Fighting Service | CC                              | Coordination                             |
|   |  | On the occurrence of fire within the city any magistrate ,any official of fire brigade directing the operation and any police officer may take action according to the Act and regulation | Make strategic plan to establish firefighting service   |                     | ✓                   |                         |                      | Fire Fighting Service | CC                              | Coordination / Delegation                |
|   | Assistance to Govt. for civil defense related functions (20.3)   | Assist Govt. for civil defense related functions (20.3)   | 1. Manpower recruited.<br>2. Proper training given.   |                     | ✓                   |                         | ✓                    | CC                    | Concerned agencies              | Coordination                             |
| SI-21 Disaster management                       | For the purpose of disaster management within the area of city corp. take appropriate action in co-ordination with local administration according to the Govt. policy and rules (21) | Take appropriate action in the light of the Govt. rules and co-ordination with the local administration (21)  | Manpower recruited. Training given for disaster management. Tent procured   |                     | ✓                   | ✓                       | ✓                    | CC                    | NGO and other national agencies | Coordination                             |
| SI-22. Trade of dangerous and harmful materials | Ascertainment of dangerous and harmful materials for trade by the Govt.(22.1)<br>Corporation will not allow any person to allow such trade   | To see that no person carry on trade of dangerous and harmful materials without license (22.2)  | 1. Rules framed determining the dangerous and harmful materials<br>2. Manpower recruited.   |                     | ✓                   |                         | ✓                    |                       |                                 |  |
|   |  | To see that no premises or household are used for such trade without license (22.2)   | Undo  |                     | ✓                   |                         |                      |                       |                                 |  |

| Function (1)                           | Function (2)  | Detail Activities  | 5 Year Action Plan   | Applicable Activity |                     |                         |                      |                  |          | Modality of Decentralization and Remarks |
|--|---|--|--|---------------------|---------------------|-------------------------|----------------------|------------------|----------|--|
|  |   |  |  | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |          |  |
|  |   |  |  |                     |                     |                         |                      | From             | To       |  |
|  | without license issued by the corporation (22.2)  | To see that no person keeps any such materials in any premises except for domestic use                             | Undo   |                     | ✓                   |                         |                      |                  |          |  |
|  |   | To see that no person store or keep such materials in excess of such limits fixed by the by-laws [22.2 (C)]        | Undo   |                     | ✓                   |                         |                      |                  |          |  |
| SL-23 Graveyard and crematorium        | Provide suitable places for burial and burning of dead bodies and maintenance and management of such places (23.1-23.4) | Provide places for burial and burning of dead bodies (23.1)  | 1. Manpower increased.<br>2. Regulation prepared.  |                     | ✓                   |                         | ✓                    |                  |          |  |
|  |   | Manage and maintain such places properly (23.2)  | Undo   |                     | ✓                   |                         |                      |                  |          |  |
|  |   | Register the burial and burning places which are not managed and maintained by the corporation (23.3)              | Undo   |                     | ✓                   |                         |                      |                  |          |  |
|  |   | Inspect and supervise such places (23.3)   | Undo   |                     | ✓                   |                         | ✓                    |                  |          |  |
|  |   | See that no new burial and burning places are established except under a license granted by the corporation (23.4) | Undo   |                     | ✓                   |                         |                      |                  |          |  |
| SI-24. Trees, parks gardens and forest | Tree plantation 24.1-24.2   | Plant trees to the adjacent space of the public streets and on public places (24.1)                                | Required manpower recruited<br>Plant research plan prepared and approval taken from Govt.<br>Make reputation |                     | ✓                   |                         |                      |                  |          |  |
|  |   | Frame and implement plant-research plan with the approval of the Govt.(24.2)                                       | Coordination system with DoE or NGOs established   |                     | ✓                   |                         |                      | CC               | DoE, NGO | Coordination                             |

| Function (1) | Function (2)  | Detail Activities   | 5 Year Action Plan                               | Applicable Activity |                     |                         |                      |                  |    | Modality of Decentralization and Remarks |
|--------------|---|---|--|---------------------|---------------------|-------------------------|----------------------|------------------|----|--|
|              |   |   |  | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |    |  |
|              |   |   |  |                     |                     |                         |                      | From             | To |  |
|              | Gardens (24.3-24.5)   | Provide, maintain and manage public gardens for recreation and convenience of the public (24.3)                                   | Make regulation                                  |                     | ✓                   |                         |                      |                  |    |  |
|              |   | Frame and implement garden development plan for each public garden (24.4)   | Make plan for public garden based on master plan |                     | ✓                   |                         |                      |                  |    |  |
|              | Provide, maintain and improve open spaces for convenience of the public (24.5)                                | Provide and maintain open space (24.5)  | 0  |                     |                     |                         |                      |                  |    |  |
|              |   | Shall be grassed, hedged and improves (24.5)  | 0  |                     |                     |                         |                      |                  |    |  |
|              | Frame forest-plans and its implementation (24.6)  | Frame forest Development plans providing development of forest and implement the same   | Make plan based on master plan                   |                     | ✓                   |                         |                      |                  |    |  |
|              |   | Plant trees and maintain the same according to plan (24.6)  | Implement the plan for forest development        |                     | ✓                   |                         |                      |                  |    |  |
|              | Destruction of pests causing damage to trees (24.7)<br>Control of noxious growth of trees and creepers (24.8) | Destroy the pests causing damage to trees and plants (24.7)   | Make strategic plan to achieve function          |                     | ✓                   |                         |                      |                  |    |  |
|              |   | Issue notice to the owner of the premises where noxious growth of trees, creeper and herbs takes place to remove the same (24.8)  | Make strategic plan to achieve function          |                     | ✓                   |                         |                      |                  |    |  |
|              |   | Clear the same if the owner of such premises failed to do so and realize the cost thereof in the form of tax levied on him (24.8) | Make strategic plan to achieve function          |                     | ✓                   |                         |                      |                  |    |  |
|              | Felling of dangerous trees and trimming branches of trees causing obstruction to traffic (24.9)               | Arrange felling of any trees which are dangerous and likely to cause obstruction to traffic (24.9)                                | Make strategic plan to achieve function          |                     | ✓                   |                         |                      |                  |    |  |

| Function (1)                    | Function (2)  | Detail Activities   | 5 Year Action Plan  | Applicable Activity |                     |                         |                      |                  |                         | Modality of Decentralization and Remarks |              |
|---------------------------------|---|---|---|---------------------|---------------------|-------------------------|----------------------|------------------|-------------------------|--|--------------|
|                                 |   |   |   | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |                         |  |              |
|                                 |   |   |   |                     |                     |                         |                      | From             | To                      |  |              |
|                                 |   | Trim the branches of trees which overhang and likely to cause obstruction to traffic (24.9)                   | Make strategic plan to achieve function   |                     | ✓                   |                         |                      |                  |                         |  |              |
|                                 | Prohibit cultivation of dangerous crop (24.10)  | Prohibit cultivation of any crop which is considered dangerous to public health (24.10)                       | Make strategic plan to achieve function   |                     | ✓                   |                         |                      |                  |                         |  |              |
| SI-25 Tanks and low lying areas | Excavation and re-excavation of tanks, Reclamation of low-lying areas (25)  | Excavate and re-excavate tanks (25)   | Re-excavation of tanks done and leased out for income generation.   |                     | ✓                   |                         |                      | CC               | WDB                     | Coordination                             |              |
|                                 |   | Reclaim low-lying areas (25)  | • Low lying areas reclaimed and properly managed.   |                     | ✓                   |                         |                      | CC               | WDB                     | Coordination                             |              |
| SI-26 Education and culture     | Management and maintenance of educational institution and fixation of fees for use of such institutions (26.1-26.4) | Maintain educational institution as required by the Govt. (26.1)  | 1. All registered educational intuitions which are nationalized transferred to the Govt.<br>2. New quality educational institutions taken up by the CC. and properly managed. | ✓                   | ✓                   | ✓                       | ✓                    | CC               | EED, Dept. of Education | Coordination                             |              |
|                                 |   | Manage any other educational institutions for promotion of education with prior approval of the Govt. (26.1)  | Make strategic plan to achieve functions on education and culture (SI-26)   |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |              |
|                                 |   | Educational institutions maintained by the corporation shall conform to such standard as prescribed (26.2)    | Undo  |                     |                     | ✓                       |                      |                  | CC                      | EED, Dept. of Education                  | Coordination |
|                                 |   | Levy such fees for use of educational institutions as prescribed (26.3)                                       | Undo  |                     |                     | ✓                       |                      |                  | CC                      | EED, Dept. of Education                  | Coordination |
|                                 |   | Give financial aid to private educational institution within the city with prior approval of the Govt. (26.4) | Undo  |                     |                     | ✓                       |                      |                  | CC                      | EED, Dept. of Education                  | Coordination |

| Function (1)                               | Function (2)                              | Detail Activities   | 5 Year Action Plan | Applicable Activity |                     |                         |                         |                  |                         | Modality of Decentralization and Remarks |
|--|---|---|--------------------|---------------------|---------------------|-------------------------|-------------------------|------------------|-------------------------|--|
|  |   |   |                    | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower    | Decentralization |                         |  |
|  |   |   |                    |                     |                     |                         |                         | From             | To                      |  |
|  | Compulsory education (26.5)               | Enforce compulsory education in the city (26.5)   | Undo               |                     | ✓                   |                         |                         | CC               | EED, Dept. of Education | Coordination                             |
|  |   | Ensure that every child of school going age in the city attends school recognized by the corp. (26.5) | Undo               |                     | ✓                   |                         |                         | CC               | EED, Dept. of Education | Coordination                             |
|  | General provisions about education (26.6) | Construct and maintain building to be used as hostels for students.(ka)                               | Undo               |                     | ✓                   |                         |                         | CC               | EED, Dept. of Education | Coordination                             |
|  |   | Give scholarship to deserving and meritorious students (kha)  | Undo               |                     | ✓                   |                         |                         | CC               | EED, Dept. of Education | Coordination                             |
|  |   | Arrange training program to teachers (ga)   | Undo               |                     | ✓                   |                         |                         | CC               | EED, Dept. of Education | Coordination                             |
|  |   | Promote adult education (gha)   | Undo               |                     | ✓                   |                         |                         | CC               | EED, Dept. of Education | Coordination                             |
|  |   | Provide school books to orphans and poor students free of cost or at concessional rates (uma)         | Undo               |                     | ✓                   |                         |                         | CC               | EED, Dept. of Education | Coordination                             |
|  |   | Maintain sale centers for sale of books and stationeries (cha)  | Undo               |                     | ✓                   |                         |                         | CC               | EED, Dept. of Education | Coordination                             |
|  |   | With prior approval of the Govt. (chaa) :   | Undo               |                     | ✓                   |                         |                         | CC               | EED, Dept. of Education | Coordination                             |
|  |   | 1) Promote and assist educational societies.  | Undo               |                     | ✓                   |                         |                         | CC               | EED, Dept. of Education | Coordination                             |
| 2) Survey and implement educational plans. | Undo                                      |   | ✓                  |                     |                     | CC                      | EED, Dept. of Education | Coordination     |                         |  |

| Function (1) | Function (2)                            | Detail Activities   | 5 Year Action Plan   | Applicable Activity |                     |                         |                      |                  |                         | Modality of Decentralization and Remarks |
|--------------|---|---|--|---------------------|---------------------|-------------------------|----------------------|------------------|-------------------------|--|
|              |   |   |  | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |                         |  |
|              |   |   |  |                     |                     |                         |                      | From             | To                      |  |
|              |   | 3) Provide milk or meals to school children free or at cheaper cost.                              | Undo   |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |
|              |   | Adopt any other measures likely to promote cause of education (26.6) (ja)                         | Undo   |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |
|              | Promotion of cultural activities (26.7) | Establish and maintain information centers for spread of education and community development (Ka) | 1. Education & cultural officer - 1<br>2. Librarian - 1<br>3. Cataloger -1<br>4. Office Assist. Cum PC operator - 1<br>5. MLSS - 1<br>Make strategic plan to achieve the functions of 26.7 |                     | ✓                   |                         | ✓                    | CC               | EED, Dept. of Education | Coordination                             |
|              |   | Provide and maintain radio and television set at public institutions and public places (kha)      | Undo   |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |
|              |   | Establish museums and art galleries for exhibition of articles (Ga)                               | Undo   |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |
|              |   | Establish and maintain public halls and community centers (Gha)                                   | Undo   |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |
|              |   | Celebrate independence day and other national holidays (Uma)                                      | Undo   |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |
|              |   | Provide reception of distinguished visitors visiting the corporation (cha)                        | Undo   |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |
|              |   | Encourage use of national language (Chaa)   | Undo   |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |



| Function (1)         | Function (2)   | Detail Activities   | 5 Year Action Plan  | Applicable Activity |                     |                         |                      |                  |                         | Modality of Decentralization and Remarks |
|----------------------|--|---|---|---------------------|---------------------|-------------------------|----------------------|------------------|-------------------------|--|
|                      |  |   |   | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |                         |  |
|                      |  |   |   |                     |                     |                         |                      | From             | To                      |  |
|                      |  |   |   |                     |                     |                         |                      |                  | Education               |  |
|                      |  | Promote physical culture, encourage public games and sports, and organize rallies and tournaments (Ja)              | Undo  |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |
|                      |  | Promote tour to cities (Jha)  | Undo  |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |
|                      |  | Preserve historical places (ea)   | Undo  |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |
|                      |  | Provide and develop recreational facilities for the public (ta)   | Undo  |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |
|                      |  | Adopt other measures to promote native culture (Tha)  | Undo  |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |
|                      | Establishment and maintenance of public libraries (26.8) | Establish and maintain general and movable public libraries (26.8)  | Make strategic plan to achieve the function   |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |
|                      | Arrangement of fairs, shows and festivals (26.9)         | With prior approval of Govt.- make arrangements necessary on the occasion of fairs, shows and public festivals      | Make strategic plan to achieve the function   |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |
|                      |  | Levy fees on the persons attending such fairs (26.9)  | Undo  |                     | ✓                   |                         |                      | CC               | EED, Dept. of Education | Coordination                             |
| SI-27 Social welfare | Social welfare activities (27)                           | Establish and maintain welfare homes, asylums, widow homes and other institutions for relief of the distressed (ka) | Assign officials according to approved organogram<br>Make strategic plan to achieve the function of SI-27 |                     | ✓                   |                         |                      | CC               | Concerned agencies      | Coordination                             |

| Function (1)            | Function (2)   | Detail Activities   | 5 Year Action Plan                          | Applicable Activity |                     |                         |                      |                  |                    | Modality of Decentralization and Remarks |
|-------------------------|--|---|---|---------------------|---------------------|-------------------------|----------------------|------------------|--------------------|--|
|                         |  |   |   | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |                    |  |
|                         |  |   |   |                     |                     |                         |                      | From             | To                 |  |
|                         |  | Provide burial and burning of dead bodies of paupers at the expenses of the corp. (kha)   | Undo  |                     | ✓                   |                         |                      | CC               | Concerned agencies | Coordination                             |
|                         |  | Adopt measures for prevention of beggary, prostitution, gambling, taking of injurious drugs, consumption of alcoholic liqueur, Juvenile delinquency and other social evils (ga) | Undo  |                     | ✓                   |                         |                      | CC               | Concerned agencies | Coordination                             |
|                         |  | Organize social service volunteers (gha)  | Undo  |                     | ✓                   |                         |                      | CC               | Concerned agencies | Coordination                             |
|                         |  | Adopt measures for promotion of the welfare of women. Children and people of backward classes (cha)   | Undo  |                     | ✓                   |                         |                      | CC               | Concerned agencies | Coordination                             |
|                         |  | Adopt any other measures for promotion of social welfare (chaa) (27)  | Undo  |                     | ✓                   |                         |                      | CC               | Concerned agencies | Coordination                             |
| SI-28. Development plan | Preparation and implementation of development plans (28.1) | Prepare and implement development plans for specified period with prior approval of the Govt.   | Development plans prepared and implemented. | ✓                   | ✓                   | ✓                       | ✓                    | CC               | RAJUK              | Coordination                             |
|                         |  | Provide specified function in such plans [28.1(a)]  | Undo  | ✓                   | ✓                   | ✓                       | ✓                    | CC               | RAJUK              | Coordination                             |
|                         |  | Collection of finance for such plan, it's implementation and supervision [28.1(b)]  | Undo  | ✓                   | ✓                   | ✓                       | ✓                    | CC               | RAJUK              | Coordination                             |

| Function (1) | Function (2)                      | Detail Activities   | 5 Year Action Plan   | Applicable Activity |                     |                         |                      |                  |                | Modality of Decentralization and Remarks |
|--------------|-----------------------------------|---|--|---------------------|---------------------|-------------------------|----------------------|------------------|----------------|--|
|              |                                   |   |  | Kaizen Activity     | Technology Transfer | Instalment of Equipment | Increase of Manpower | Decentralization |                |  |
|              |                                   |   |  |                     |                     |                         |                      | From             | To             |  |
|              |                                   | Govt. may direct to expend from income of any specified item of the corp. partly or fully to implement any development scheme[28.1( c) ]  | Undo   | ✓                   | ✓                   | ✓                       | ✓                    | CC               | RAJUK          | Coordination                             |
|              | Community development plan (28.3) | Prepare and implement community development projects in the prescribed manner (28.2)  | Sustain CDC<br>Reactivate active Community Groups (CG)<br>Facilitate activity of Community Group | ✓                   | ✓                   | ✓                       | ✓                    | CC               | NGO            | Coordination                             |
|              | Commercial schemes (28.4)         | Draw up and implement schemes for under taking commercial and business enterprise in the presided manner with prior approval of the Govt. | Develop commercial scheme  | ✓                   | ✓                   | ✓                       | ✓                    | CC               | Private sector | Coordination                             |

## Annex H-2: Function Performance Analysis and 5 Year Action Plan of GCC

| Function (1)        | Function (2)   | Detail Activities  | Level of Performance |   |   |                                      | Reason for "Moderate" or "Low" performance          | Present Status   | 5 Year Action Plan   |
|---------------------|--|--|----------------------|---|---|--------------------------------------|---|--|--|
|                     |  |  | H                    | M | L | N                                    |   |  |  |
| SI-1. Public Health | Responsibilities for sanitation. (1.1)                           | Take Measures of proper sanitation.  |                      | ✓ |   |                                      | Lack of manpower and logistics                      | <u>Manpower</u><br>1. Sanitary Inspector - 1<br>2. Cleaning supervisor - 3<br>3. Road cleaner - 325<br>4. <u>Drain cleaner – 100</u><br>Total - 429  | <u>Manpower</u><br>1. Sanitary Inspector - 1<br>2. Cleaning supervisor - 10<br>3. Road cleaner - 740<br>4. <u>Drain cleaner - 150</u><br>Total - 901   |
|                     | Insanitary Building. (1.2)                                       | Ask owners/possessor of the building to keep the same Clean. (1.2)   |                      |   |   | ✓                                    | Lack of awareness                                   | <u>Equipment</u><br>Truck operative - 10<br>Inoperative - 10<br>Van - 50   | <u>Equipment</u><br>1. Trucks -40 with driver and helper provided.<br>2. Van-120 with driver provided.   |
|                     | Cleaning insanitary building (1.3)                               | In case of failure by the owner/possessor, CC will take steps to clean the same and recover the cost from the owner/possessor. (1.3) |                      |   |   | ✓                                    | Lack of awareness                                   |  |  |
|                     | Removal, collection and disposal of the waste. (1.4,1.5,1.6,1.7) | Collect waste from household   |                      |   |   | ✓                                    | Lack of manpower, Equipment & budget and Vehicle    | 30% waste collection<br>4 NGOs<br>1 Medical Officer<br>2 Inspector<br>2 Supervisor<br>85 cleaners<br>5 Garbage Truck functioned<br>1 non functioned<br>28 Hand trolleys<br>56 Mobile dustbin<br>0 Gumboot, 0 Gloves, 0 Masks | 45% waste collected<br>8 NGOs working<br>1 Chief Health officer<br>1 dy. Chief health Officer<br>3 Health Officer<br>10 Medical officer<br>6 Inspector<br>12 Supervisor<br>300 cleaner<br>20 Garbage truck<br>300 Hand Trolleys<br>1000 Mobile dustbin<br>400 pair set Gumboot, Gloves and Masks |
|                     |  | Collect waste from commercial buildings and industrial area  |                      |   |   | ✓                                    | Lack of vehicles and lack of budget and Man power   | 30% waste collection<br>4 NGOs<br>1 Medical Officer<br>2 Inspector<br>2 Supervisor<br>85 cleaners<br>5 Garbage Truck functioned<br>1 non functioned<br>28 Hand trolleys<br>56 Mobile dustbin                                 | 45% waste collected<br>8 NGOs working<br>1 Chief Health officer<br>1 dy. Chief health Officer<br>3 Health Officer<br>10 Medical officer<br>6 Inspector<br>12 Supervisor<br>300 cleaner<br>20 Garbage truck<br>200 Hand Trolleys<br>1000 Mobile dustbin   |
|                     | Make schedule of waste collection                                |  | ✓                    |   |   |                                      | Schedule is not maintain                            | Make schedule of waste collection, and maintain  |  |
|                     | Site selection and Install dustbins                              |  |                      | ✓ |   | Lack of manpower, Equipment & budget | No land for site<br>56 Mobile Dustbin<br>85 cleaner | Land acquisition for dustbin<br>Coordination with DC<br>1000 Mobile dustbin<br>300 Cleaner   |  |

| Function (1) | Function (2) | Detail Activities  | Level of Performance |   |   |   | Reason for "Moderate" or "Low" performance                                    | Present Status   | 5 Year Action Plan  |
|--------------|--------------|--|----------------------|---|---|---|---|--|---|
|              |              |  | H                    | M | L | N |   |  |   |
|              |              | Collect waste from primary collecting points or dustbins and transport to dumping site |                      | ✓ |   |   | Lack of man power, Equipment & budget and vehicle                             | 5 Garbage Truck functioned<br>1 non functioned<br>28 Hand trolleys   | 300 cleaner<br>20 Garbage truck<br>300 Hand Trolleys  |
|              |              | Monitor the Cleaning work  |                      | ✓ |   |   | Lack of man power, Equipment and vehicle                                      | 0 Pickup<br>0 Motorbike<br>3 for Monitoring  | 5 pickup<br>10 Motorbike<br>5 Conservancy Inspector<br>15 Conservancy Supervisor<br>10 medical Officer  |
|              |              | Monitor waste collection at primary collection points                                  |                      | ✓ |   |   | Lack of man power, Equipment and vehicle                                      | 0 Pickup<br>0 Motorbike<br>3 for Monitoring  | 5 pickup<br>10 Motorbike<br>5 Conservancy Inspector<br>15 Conservancy Supervisor<br>10 medical Officer  |
|              |              | Monitor waste collection on the dumping station  |                      | ✓ |   |   | Lack of man power, Equipment & budget and vehicle                             | 1 Medical officer<br>1 Conservancy Inspector<br>1 Conservancy Supervisor<br>0 Vehicle                        | 5 Medical officer<br>10 CI<br>20 CS<br>5 pickup<br>10 Motorbike   |
|              |              | Construct, monitor and maintain waste treatment  |                      |   | ✓ |   | No waste treatment plant, lack of man power, equipment , man power and budget | There is no activities   | Make strategic plan for waste treatment plant   |
|              |              | Maintain the construction  |                      |   | ✓ |   | Lack of budget  | There is no activities   | Make strategic plan for waste treatment plant   |
|              |              | Manage Clinical waste  |                      |   | ✓ |   | Lack of budget, lack of land, Lack of man power and lack of vehicle           | 1 NGO engaged in clinical waste<br>No training for all officials<br>shortage of Equipment<br>Less monitoring | 10 NGOs are selected<br>Training conducted<br>400 Bin installed<br>800 sets materials<br>Land for Incinerator installed<br>sufficient equipment are supplied<br>5 pickup<br>10 Motorbike for monitoring |
|              |              | Select dumping site  |                      | ✓ |   |   | Lack of Land  | No coordination with DC  | Acquired land for site<br>Coordination established with DC  |
|              |              | Construction dumping site  |                      | ✓ |   |   | Lack of Budget  | 1 Dumping site Owned by forest dept.   | 5 dumping site established  |
|              |              | Manage (monitor and maintain) dumping site   |                      | ✓ |   |   | Lack of man power, Equipment & budget and vehicle                             | Not sufficient maintenance<br>1 Medical officer<br>1 Conservancy Inspector<br>1 Conservancy Supervisor       | 5 Medical officer<br>10 CI<br>20 CS<br>5 pickup<br>10 Motorbike   |
|              |              | Monitor waste origin pollution   |                      | ✓ |   |   | Lack of man   | No awareness activities  | Awareness program undertaken  |

| Function (1)                                   | Function (2)   | Detail Activities   | Level of Performance |   |   |   | Reason for "Moderate" or "Low" performance   | Present Status   | 5 Year Action Plan   |
|--|--|---|----------------------|---|---|---|--|--|--|
|  |  |   | H                    | M | L | N   |  |  |  |
|  |  |   |                      |   |   |   | Power  | No proper monitoring but partly monitor by 1 Medical Officer<br>1 CI<br>1 CS   | 5 Medical officer<br>10 CI<br>20 CS<br>5 pickup<br>10 Motorbike                                |
|  | Latrines and urinals. (1.8, 1.9, 1.10)                                       | Provide and maintain public latrine and urinals. (1.8)  |                      |   | ✓ |   | Shortage of fund. Project undertaken.  | There is no specific data of public toilet   | Make database of public toilet<br>Make plan for construction of public toilet<br>Make O&M plan |
|  |  | Occupier of the houses will keep their latrines and urinals in order and clean up to the satisfaction of the Corporation. (1.9)   |                      |   |   | ✓   | Lack of awareness and Shortage of manpower<br>There is no regulation                 | There is no monitoring system<br>There is no regulation  | Make regulation  |
|  |  | Corporation will issue notice to the owners/occupiers of the houses to keep their latrines and urinals in proper places either by renovations or removing the same. (1.10). |                      | ✓ |   |   | Shortage of manpower<br>No regulation  | There is no specific regulation  | Make regulation  |
| SI-2. Registry of Births, deaths and marriages | Corporation will register all births, deaths and marriages. (2.1)            | Register all births, deaths. Maintain its statistics. (2.1)   |                      | ✓ |   | Lack of manpower and training.                      | 1. Birth & death register -1<br>2. Computer operator -1<br><br>MLSS – 1<br>Total = 3 | 1. Birth & death register - 1<br>2. Computer operator - 2<br>3. Maulana - 1<br>4. Priest - 1<br>5. Graveyard caretaker - 52<br>6. Crematorium caretaker - 15<br>6. MLSS – 1<br>Total = 73 appointed. |  |
|  |  | Maintain statistics for registration of marriages   |                      |   | ✓ | Absence of manpower to maintain the statistics.     | Undo   | Undo   |  |
| SI-3. Infectious diseases                      | Measures to prevent infectious diseases and build hospitals. (3.1, 3.2, 3.3) | Take measures to prevent infectious diseases. (3.1)   |                      | ✓ |   | Lack of manpower                                    | No manpower.   | •Awareness builds up.<br>•Manpower appointed.<br>•Scheme taken and hospital established to prevent infectious disease.   |  |
|  |  | Establish and maintain hospitals for persons affected form infectious diseases. (3.2)   |                      |   | ✓ | Lack of awareness. Hospital Needs to be established | There is no hospital for such purpose  | Have discussion to improve the function in concerned standing committee  |  |
|  |  | Make schemes to prevent and control of infectious diseases and its  |                      |   | ✓ | No budget provision                                 | There no scheme for such purpose   | Have discussion to improve the function in concerned standing committee  |  |



| Function (1)                                      | Function (2)  | Detail Activities  | Level of Performance |   |   |   | Reason for "Moderate" or "Low" performance  | Present Status   | 5 Year Action Plan  |
|---|---|--|----------------------|---|---|---|---|--|---|
|   |   |  | H                    | M | L | N |   |  |   |
|   |   |  |                      |   |   |   |   | Total - 17<br><u>Infrastructure &amp; logistics.</u><br>1. Well-equipped hospital established.<br>2. Ambulance - 4<br>3. Truck for carrying dead bodies -1<br>4. Adequate medicine |   |
|   |   | Maintain such hospitals (6.1)  |                      |   |   |   | Lack of awareness   | Undo   | Undo  |
|   |   | Hospitals and dispensaries maintained by the corporation shall be managed in the manner as may be prescribed (6.2) |                      |   |   |   | Lack of awareness   | Undo   | Undo  |
| SI-7 Medical aid and relief and medical education | Corporation may take much measures as considered fit or if required by the govt. about specified medical aid and relief and medical education (7) | Establish and maintain first- aid centers  |                      |   |   | ✓ | Lack of manpower.<br>Lack of awareness.   | No manpower.   | A project taken considering all the aspects provided under this section.  |
|   |   | Provide mobile medical aid unit  |                      |   |   | ✓ | Lack of awareness.  | Undo   | Undo  |
|   |   | Encourage to form societies to render medical aid  |                      |   |   | ✓ | Lack of awareness.  | Undo   | Undo  |
|   |   | Promote medical education  |                      |   |   | ✓ | No budget provision   | Undo   | Undo  |
|   |   | Payment of grants to institutions for medical relief   |                      |   |   | ✓ | Lack of fund provided in the budget.  | Undo   | Undo  |
|   |   | Medical examination of school children   |                      |   |   | ✓ | Lack of manpower.<br>Lack of awareness  | Undo   | Undo  |
| SI-8 Water supply and drainage                    | Water Collection, distribution & Management (8.1)   | Follow the Master Plan   |                      |   |   | ✓ | Insufficient man power<br>Insufficient equipment<br>Insufficient budget                   | No Master Plan   | Master Plan prepared and followed properly  |
|   |   | Product tube well pipe line construction   |                      |   | ✓ |   | Insufficient budget   | 12 Production Tube well<br>36 KM pipeline coverage   | 100 Production Tube well<br>60% coverage  |
|   |   | Maintain the whole work demand & supply situation  |                      |   |   | ✓ | 18% of total demand fulfilled by present situation. Lack of man power, Equipment & budget | 18% coverage<br>1 water super<br>1 HTU<br>1 Bill Clark<br>1 Bill pion<br>1 plumber<br>1 HT mechanic<br>12 pump driver<br>2 part time labor   | 60% coverage<br>1 ExEng.<br>1 Assts. Eng.<br>2 Sub Assts. Eng.<br>1 water super<br>3 Bill Clark<br>1 accounts<br>3 Bill pion<br>60 Pump driver<br>3 Meter reader<br>3 Mechanics |



| Function (1) | Function (2) | Detail Activities  | Level of Performance |   |   |   | Reason for "Moderate" or "Low" performance  | Present Status   | 5 Year Action Plan  |
|--------------|--------------|--|----------------------|---|---|---|---|--|---|
|              |              |  | H                    | M | L | N |   |  |   |
|              |              | Collect water from production well through ground source |                      |   | ✓ |   | Insufficient water supply<br>insufficient man power<br>Insufficient equipment<br>Insufficient budget                              | 12 Production Tube well<br>36 KM pipeline coverage   | 100 Production Tube well<br>60% coverage  |
|              |              | Maintenance of Water Supply Network                      |                      | ✓ |   |   | insufficient man power<br>Insufficient equipment<br>Insufficient budget   | No trained staff<br>20 man power   | Officials are trained<br>staff recruited  |
|              |              | Provide household with water supply                      |                      | ✓ |   |   | Insufficient pipeline network<br>Lack of budget   | 3452 Households connected<br>18% coverage  | 15000 Households connected<br>60% coverage  |
|              |              | Provide water supply in Commercial area                  |                      | ✓ |   |   | Lack of pipeline network<br>Lack of Budget<br>Insufficient skilled manpower   | 95 nonresidential connected  | 5000 Nonresidential are connected   |
|              |              | Provide water supply Industrial area                     |                      | ✓ |   |   | Lack of pipeline network<br>Lack of Budget<br>Insufficient skilled manpower   |  |   |
|              |              | Response to complaints on water supply                   | ✓                    |   |   |   |   |  |   |
|              |              | Collect tariff for water supply                          |                      | ✓ |   |   | Unwillingness of user<br>Lack of man power  | 2 staffs for Water tariff collection<br>No motivation activities<br>Inadequate awareness program | 3 Bill Clark appointed<br>Awareness program held  |
|              |              | Per time reservation in overhead tank                    |                      | ✓ |   |   | Insufficient overhead tank  | 2 Overhead Tank (1 Non functioned)<br>1 functioning<br>12 Pump house<br>5 KMs rehabilitation     | 5 Overhead tanks<br>60 Pump house<br>10 KM rehabilitated                                    |
|              |              | Distribute water from water tank                         |                      | ✓ |   |   | Poor condition of the supply pipe<br>Lack of rehabilitation<br>Insufficient man power<br>Insufficient Equipment<br>Lack of budget | 150 Poor condition of S. V. (Sluice Valve)   | 5 KM PVC pipes for rehabilitation<br>200 Km pipe lines<br>Related equipment are established |

| Function (1) | Function (2)  | Detail Activities   | Level of Performance  |   |   |   | Reason for "Moderate" or "Low" performance  | Present Status   | 5 Year Action Plan   |
|--------------|---|---|---|---|---|---|---|--|--|
|              |   |   | H   | M | L | N |   |  |  |
|              |   | Distribute water for direct pumping   |   |   | ✓ |   | Insufficient water source   | No water Meter<br>Ground water level declining   | 72 Water flow meter for production Tube well<br>25000 customer water Meter connected |
|              | Planning of water supply system   | Make master plan for water supply   |   |   |   | ✓ | Lack of knowledge but needed training   | No Master Plan<br>No training program  | Master Plan prepared and followed properly<br>Training on planning held              |
|              | Establish water source and pipeline network (8.2, 8.3)  | Borehole drilling   |   |   | ✓ |   | Lack of equipment   | 12 Borehole<br>No Compressor machine   | 60 Borehole<br>2 Compressor machine<br>2 Rig-Machine installed                       |
|              |   | Establish pump and overhead tank  |   |   | ✓ |   | Insufficient budget   | Poor condition of Overhead tank  | 2 Reconstructed of Overhead tank   |
|              |   | Establish water supply pipeline according to master plan (include extension)        |   | ✓ |   |   | Insufficient budget   | 36 Km pipeline network   | 200 km pipeline are connected  |
|              |   | Establish water treatment plant   |   |   |   | ✓ | Lack of budget<br>Insufficient land   | No treatment Plant<br>No land for treatment plant                                      | 3 Treatment Plants established<br>2 Rain water reservoir installed                   |
|              |   | Rehabilitation of water supply system (pump, tank, pipelines, treatment plant etc.) |   |   | ✓ |   | Lack of budget  | No activities  | Private partnership established  |
|              |   | Frame and execute water supply scheme (8.2)   |   |   |   | ✓ | No project has yet been taken. DPHE in doing the same.                                      |  |  |
|              |   | Recover charges for supply of piped water (8.3)                                     |   | ✓ |   |   | Lack of quality service. Source limited & replacement of old pipe needed. Extension needed. |  |  |
|              |   | Private sources of water supply (8.4 - 8.6)   | Inspect and control private sources of water supply within the city (8.4) |   |   |   | ✓   | Lack of improvement of water supply system in CC.<br>Lack of Manpower and Supervision. | No activities  |
|              | None should procure any source of water without permission from CC (8.5)  |   |   |   |   | ✓ | Lack of awareness.  | No activities  | Private partnership established  |
|              | Issue notice to the owner having control of private source of water supply for drinking purpose to keep the same in good order and protect form contamination (8.6) |   |   |   |   | ✓ | Lack of improvement of water supply system in CC.<br>Lack of Manpower.                      | No regulation  | Make regulation  |

| Function (1) | Function (2)                          | Detail Activities   | Level of Performance |   |   |   | Reason for "Moderate" or "Low" performance                 | Present Status  | 5 Year Action Plan   |
|--------------|---------------------------------------|---|----------------------|---|---|---|--|---|--|
|              |                                       |   | H                    | M | L | N |  |   |  |
|              |                                       |   |                      |   |   |   | Absence of laboratory facilities for testing of waters     |   |  |
|              | Water Quality Management (Not in Act) | Water Quality Test  |                      |   | ✓ |   | Unavailable Laboratory facilities                          | No Laboratory   | 1 Laboratory   |
|              |                                       | Water Quality Control   |                      |   | ✓ |   | Unavailable Laboratory facilities                          | No Laboratory   | 1 Laboratory   |
|              | Drainage (8.7, 8.8, 8.9)              | Follow the drainage Master Plan                                       |                      |   | ✓ |   | No Master Plan, Lack of man power, Equipment & budget      | No Master Plan<br>1 Town Planner  | Master Prepared  |
|              |                                       | Identify the drainage problem and implement following the master plan |                      |   | ✓ |   | Lack of Master Plan, Lack of man power, Equipment & budget | No Master Plan<br>2 Surveyor (permanent)<br>9 Surveyor (Part time)<br>1 Drafts man<br>10 chain man<br>3 Gunter scale<br>6 Feed scale<br>6 Divider<br>6 Guniya<br>0 Plan table<br>0 Level Machine<br>0 Theodor light | 5 Surveyors (Permanent)<br>19 Surveyors (Part time)<br>6 Drafts Man<br>30 Chain man<br>30 sets   |
|              |                                       | Design the drainage   | ✓                    |   |   |   |  | Outsourcing   | Outsourcing  |
|              |                                       | Estimation the drainage   | ✓                    |   |   |   |  | Outsourcing   | Outsourcing  |
|              |                                       | Tender for construction   | ✓                    |   |   |   |  | No E-Tendering  | Introduce e-tendering  |
|              |                                       | Construct the drainage  |                      |   | ✓ |   | Lack of budget, lack of skilled man power, lack of vehicle | 1 ExEng.<br>3 Assts. Engineer<br>4 Sub Assts. Eng.<br>3 Work Assts. (Permanent)<br>No training<br>2 Roller (8 Ton capacity)<br>1 Roller (10 Ton capacity)<br>1 Hand Roller  | 3 Ex Eng.<br>6 Assts. Eng.<br>12 Sub Assts. Eng.<br>24 Work Assts.<br>3 Roller (8 Ton Capacity)<br>3 Roller (10 Ton capacity)<br>3 Hand Roller |
|              |                                       | Monitor for construction  |                      |   | ✓ |   | Lack of man power, Equipment, Lack of Vehicle              | 4 Sub Assts.<br>1 Pickup<br>3 Motorbike<br>No O&M plan  | 12 Sub Assts. Eng.<br>3 Pickup<br>18 Motorbike<br>Make O&M plan  |
|              |                                       | Maintain the construction   |                      |   | ✓ |   | Lack of man  | 1 ExEng.  | 3 Ex Eng.  |

| Function (1) | Function (2)  | Detail Activities  | Level of Performance |   |   |   | Reason for "Moderate" or "Low" performance         | Present Status   | 5 Year Action Plan  |
|--------------|---|--|----------------------|---|---|---|--|--|---|
|              |   |  | H                    | M | L | N |  |  |   |
|              |   |  |                      |   |   |   | power, Equipment & budget                          | 3 Assts. Engineer<br>4 Sub Assts. Eng.<br>3 Work Assts. (Permanent)<br>No training<br>2 Roller (8 Ton capacity)<br>1 Roller (10 Ton capacity)<br>1 Hand Roller | 6 Assts. Eng.<br>12 Sub Assts. Eng.<br>24 Work Assts.<br>3 Roller (8 Ton Capacity)<br>3 Roller (10 Ton capacity)<br>3 Hand Roller |
|              |   | Cleaning the drain   |                      |   | ✓ |   | Lack of man power, Equipment & budget and vehicles | 85 Cleaners<br>5 Garbed trucks   | 250 Cleaners<br>15 Garbage Truck  |
|              | Prepare drainage schemes (8.10-8.11)  | Prepare a drainage Scheme for construction of drains at public and private expense   |                      |   |   |   |  | There is no drainage master plan   | Make drainage master plan   |
|              | Bathing and washing places (8.13)   | Fix suitable places for use of public bathing, washing and drying of clothes (8.12)  |                      |   |   | ✓ | Not yet fixed up. Lack of awareness                | There is no activities   | Make strategic plan to achieve function   |
|              |   | Prohibit use of any places not so set apart by issuing public notice (8.12)  |                      |   |   | ✓ | Does not arise as the places are not fixed-up.     | There is no activities   | Make strategic plan to achieve function   |
|              | Provide Dhobi Ghart for washer man (8.13, 8.14)                                     | Provide Dhobi Ghart for use of washer man by imposing fees (8.13)  |                      |   |   | ✓ | Lack of awareness.                                 | There is no activities   | Make strategic plan to achieve function   |
|              |   | Provide license to washer man (8.14)   |                      |   |   | ✓ | No such application received                       | There is no activities   | Make strategic plan to achieve function   |
|              | Declare any source of water to be a public water course (8.15-8.17)                 | With previous sanction of the Govt; declare spring ,river tank, pond or public stream to be a public water course (8.15)   |                      |   | ✓ |   | Under process.                                     | Under process.   | Make regulation   |
|              |   | Provide recreational facilities making arrangements for life saving (8.1)  |                      |   |   | ✓ | Not provided.                                      | No facility  | Make strategic plan to achieve function   |
|              |   | Develop irrigation, drainage and navigational facilities keeping in consistence with any other law already in force (8.16) |                      |   |   | ✓ | Not in practice.                                   | No needs of irrigation   | N/A   |
|              |   | Manage and maintain all watercourse according to the existing law (8.17)   |                      | ✓ |   |   | Leased out.  | No regulation  | Make regulation   |
| SI-9 Public  | Issuing in of license to boats and other vessels plying for hire in a public water- | Issue license to boats and other vessels plying on hire in a public water course (9.1)                                     |                      |   |   | ✓ | Not in existence                                   | N/A  | N/A   |

| Function (1)                      | Function (2)   | Detail Activities   | Level of Performance   |   |   |   | Reason for "Moderate" or "Low" performance   | Present Status  | 5 Year Action Plan   |                                |
|-----------------------------------|--|---|--|---|---|---|--|---|--|--------------------------------|
|                                   |  |   | H  | M | L | N |  |   |  |                                |
|                                   | course (9.1)   |   |  |   |   |   |  |   |  |                                |
|                                   | Management and operation of public ferry (9.2)           | Manage and operate of public ferry (9.2)<br>Collect toll for use of such ferry. (9.2)           |  |   |   | ✓ | Not in existence<br>Not applicable   | N/A<br>N/A  | N/A<br>N/A   |                                |
| Sl-10 Public fisheries            | Declaration of public water-course as a public fisheries | Declare of public water-course as a public fisheries  |  | ✓ |   |   | Declared   | N/A   | N/A  |                                |
|                                   | Number of such public fisheries declared                 | Number of such public fisheries declared  |  | ✓ |   |   | Thirty seven leased out.   | N/A   | N/A  |                                |
|                                   | Collect revenue from such fisheries (10)                 | Collect revenue from such fisheries (10)  |  |   |   | ✓ | Being done. Regulation not yet framed.   | N/A   | N/A  |                                |
| Sl-11. Articles of food and drink | Control on sale of food items and drinks (11.1)          | Prohibit manufacture, sale or preparation of specified food or drink in unlicensed place (11.1) |  |   |   | ✓ | Lack of manpower.<br>Absence of testing laboratories.<br>Regulation has not been framed. | 1. No regulation<br>2. Shortage of manpower in Health and sanitation section.<br>3. No food testing laboratories. | 1. Regulation prepared.<br>2. Manpower appointed.<br>3. Food and beverages testing laboratories established. |                                |
|                                   |  | Prohibit import into the city for sale of food and drink without license (11.1)                 |  |   |   | ✓ | Lack of awareness.<br>Lack of manpower.  | Undo  | Undo   |                                |
|                                   |  | Prohibit hawking of specified food and drink in specified place (11.1)                          |  |   | ✓ |   | Regulation has not been framed.<br>Lack of manpower.                                     | Undo  | Undo   |                                |
|                                   |  | Regulate time and manner of transport of specified food and drink (11.1)                        |  |   |   | ✓ | Regulation has not been framed   | Undo  | Undo   |                                |
|                                   |  | Regulate grant and withdrawal of license and levying of fees (11.1)                             |  |   | ✓ |   | Absence of regulation  | Undo  | Undo   |                                |
|                                   |  | Seizure and disposal of diseased animal poultry and fish, and noxious food and drink (11.1)     |  |   |   | ✓ | Being done.<br>Absence of regulation.  | Undo  | Undo   |                                |
|                                   |  | Control on supply of milk (11.2, 11.3)  | Prohibit any person to keep milk cattle for sale of milk without license (11.2)                            |   |   |   | ✓  | Lack of manpower  | N/A  | Cover the function by the 11.1 |
|                                   |  |   | Prohibit any person to import or sale of milk without license (11.2)                                       |   |   |   | ✓  | Not in practice   | N/A  | Cover the function by the 11.2 |
|                                   |  |   | Prohibit any person to manufacture butter, ghee or diary product using any premises without license (11.2) |   | ✓ |   |  | Not in practice   | N/A  | Cover the function by the 11.3 |
|                                   |  |   | Prepare milk supply scheme for supplying of pure milk to the public (11.3)                                 |   |   |   | ✓  | Lack of awareness   | N/A  | Cover the function by the 11.4 |
| Sl-11                             | Establish and  | Establish and maintain public markets   |  |   |   |   | 18 Public markets  | No training   | Training conducted   |                                |

| Function (1)  | Function (2)                               | Detail Activities   | Level of Performance   |   |   |   | Reason for "Moderate" or "Low" performance   | Present Status  | 5 Year Action Plan  |
|---|--|---|--|---|---|---|--|---|---|
|   |  |   | H  | M   | L | N |  |   |   |
|   | maintain public markets (12.1, 12.2, 12.3) | (12.1)  |  |   |   |   | only in Gazipur. Whole picture of other 4 zones should be obtained.                          | 1 ExEng.<br>3 Assts. Engineer<br>4 Sub Assts. Eng.<br>3 Work Assts. (Permanent)<br>No training<br>2 Roller (8 Ton capacity)<br>1 Roller (10 Ton capacity)<br>1 Hand Roller<br>No O&M plan | 3 Ex Eng.<br>6 Assts. Eng.<br>12 Sub Assts. Eng.<br>24 Work Assts.<br>3 Roller (8 Ton Capacity)<br>3 Roller (10 Ton capacity)<br>3 Hand Roller<br>Make O&M plan |
|   |  | Realize salami or advanced rent from the intending occupants for construction of public market (12.2)               | ✓  |   |   |   | Being Done   | Being done  | Review the rent<br>Make regulation  |
|   |  | Charge fees for use of space and sale of goods (12.3)   |  | ✓   |   |   | Being done as per rate of fixed by CC's monthly meeting... Regulations need to be framed.    | Being done  | Review the rent<br>Make regulation  |
|   |  | Make regulation:  |  |   |   | ✓ | There was no initiative to make regulation   | Being done  | Make regulation   |
|   |  | Charge fees in respect of animals brought for sale of sold (12.3)   |  | ✓   |   |   | Leased out on yearly basis. Fees charged as per decision of CC's monthly meeting.            | Being done, but there is no regulation  | Make regulation   |
|   |  | Charge fees from brokers, commission agents, weigh men and others engaged in the market for their livelihood (12.3) |  |   |   | ✓ | Regulation not yet framed  | There is no regulation  | Make regulation   |
|   |  | SI-13 Private markets   | Establishment and maintenance of private markets (13.1-13.5) | Grant license for establishment and maintenance of private markets (13.1) |   | ✓ |  |   | Lack of man power.  |
| Check up the private markets which were established before the enforcement of this Act. Verify if the owner applied within three months after the enforcement of this Act and license given. (13.2) |  |   |  | ✓   |   |   | Some has been leased out. Others are being negotiated with the owners of the private market. | Undo  | Undo  |
| Charge fees in respect of private markets as per bye-laws (13.3)  |  |   |  | ✓   |   |   | Leased out. Regulation to be made.   | Undo  | Undo  |
| Direct the owner of the private market  |  |   |  | ✓   |   |   | Being negotiated   | Undo  | Undo  |

| Function (1)   | Function (2)   | Detail Activities   | Level of Performance |   |   |   | Reason for "Moderate" or "Low" performance   | Present Status  | 5 Year Action Plan |
|--|--|---|----------------------|---|---|---|--|---|--------------------|
|  |  |   | H                    | M | L | N |  |   |                    |
|  |  | to discontinue the same if it goes against public interest (13.4)   |                      |   |   |   | to solve the issue.  |   |                    |
|  |  | Direct the owner of the private market to construct and provide facilities for its maintenance within the specified time (13.5) |                      | ✓ |   |   | Notice issued.   | Undo  |                    |
| Sl-14 Slaughter  | Provide and maintain of slaughter house (14)   | Provide and maintain slaughter house within or without the limits of the city (14)  |                      | ✓ |   |   | Lack of manpower. Existing: Two slaughter house. Need to be increased                      | 1. Two slaughter house now in existence.<br>2. Shortage of manpower.      |                    |
| Sl-15 Animals  | Establishment and maintenance of veterinary hospitals and dispensary and prevention of infectious diseases (15.1,15.2) | Establish and maintain veterinary hospitals and dispensary (15.1)   |                      | ✓ |   |   | Absence of regulation. One hospital established in Tongi. Another in Gazipur is necessary. | •One animal hospital at Tongi exists.<br>• No animal hospital at Gazipur. |                    |
|  |  | Charge fees for treatment of animals in such hospitals (15.1)   |                      |   | ✓ |   | Regulations needs to be done   | No regulation   |                    |
|  |  | Prevent spread of infectious diseases by compulsory inoculation of animals (15.2)   |                      |   | ✓ |   | Absence of another hospital at Gazipur.  | No animal hospital  |                    |
|  | Stray animals (15.3-15.6)  | Seize, detain and impound the animals if found straying in public places or cultivated land (15.3)                              |                      |   |   | ✓ |  | Not in existence  | Not in existence   |
|  |  | Establish and maintain cattle pounds (15.4)   |                      |   |   | ✓ |  | Not in existence  | Not in existence   |
|  |  | Charge fines and fees for impounding of cattle's (15.4)   |                      |   |   | ✓ |  | Not in existence  | Not in existence   |
|  |  | Impound animals if found pickled or tethered in any street and public places where prohibited (15.5)                            |                      |   |   | ✓ |  | Not in existence  | Not in existence   |
|  | Animal homes and farms (15.6-15.8)   | Establish and maintain animal homes (15.6)  |                      |   |   | ✓ |  | Not in existence. Lack of awareness.                                      | Not in existence   |
|  |  | Establish poultry farm with prior approval of the Govt.   |                      |   |   | ✓ |  | Not in existence. Lack of awareness.                                      | Undo               |
|  |  | Arrange to keep animals of private persons in the said homes (15.6)   |                      |   |   | ✓ |  | Not in existence. Lack of awareness.                                      | Undo               |
| Establish and maintain cattle farms and poultry farms (15.7) |  |   |                      |   | ✓ |   | Not in existence. Lack of awareness.   | Undo  |                    |

| Function (1) | Function (2)                              | Detail Activities   | Level of Performance |   |   |   | Reason for "Moderate" or "Low" performance                                       | Present Status  | 5 Year Action Plan  |
|--------------|---|---|----------------------|---|---|---|--|---|---|
|              |   |   | H                    | M | L | N |  |   |   |
|              | Registration of the sale of cattle (15.9) | Register sale of animals (15.8)   |                      |   |   | ✓ | Not in existence. Lack of awareness.   | 1. Not registered<br>2. Absence of regulation.  | 1. Regulation made.   |
|              |   | Receipt of payment of fees for such registration (15.8)   |                      |   |   | ✓ | Does not arise as it is not in existence   | Undo  | undo  |
|              | Livestock improvement (15.10)             | Frame and execute livestock scheme (15.9)   |                      |   |   | ✓ | Lack of awareness. Regulation not prepared                                       | • No scheme.<br>•No regulation  | • Livestock development scheme prepared.<br>• Regulation made.  |
|              | Dangerous animals (15.11)                 | Make regulation defining the animal which are dangerous (15.10)   |                      |   |   | ✓ | Ministry issued letter to stop it as Depts. Of Environment objected to it.       | • No regulations  | • Regulation made.  |
|              |   | Make arrangement to detain or destroy such animals (15.10)  |                      |   |   | ✓ | Ministry issued letter to stop it as Depts. Of Environment objected to it.       | Undo  | Undo  |
|              | Cattle shows (15.12)                      | Hold cattle shows and fairs (15.11)   |                      |   |   | ✓ | Not being done. Lack of awareness and manpower.                                  | Not done  | • Regulation prepared.<br>• Arrangement of cattle shows made.   |
|              |   | Charge fees from the people attending such shows (15.11)  |                      |   |   | ✓ | Dose not arises as such shows are not being held.                                | Undo  | Undo  |
|              |   | Establish and maintain zoological garden and collect fees from the people (15.12)                       |                      |   |   | ✓ | Not established. Lack of awareness.  | Undo  | Undo  |
|              | Disposal of carcasses (15.14)             | Dispose of dead bodies of animals within 24 hours after it's death to a place fixed by the corp.(15.13) |                      | ✓ |   |   | Place not yet fixed by the CC. Being disposed of to a suitable unspecified place | • No place fixed up to dispose of dead bodies of animals.   | • A place fixed up to dispose of the dead bodies of animals.  |
|              | SI-16. Master Plan                        | Master Plan (16.1)  | Make Master plan     |   |   |   | ✓  | There is no GCC own master plan<br>No work for master Plan<br>1 Town planner<br>0 Vehicle<br>No monitoring system<br>1 PC<br>No GIS<br>0 Vehicle<br>0 Motorbike | Master Plan prepared<br>1 Chief Town Planner,<br>2 Deputy Town Planner,<br>5 Assistant Town Planner,<br>5 Sub-Assistant Town Planner<br>10 Surveyor<br>15 PC with GIS software<br>10 GPS<br>Training on GIS conducted<br>RS Data base Management<br>Graphic Software<br>Auto CAD Software |



| Function (1) | Function (2) | Detail Activities  | Level of Performance |   |   |   | Reason for "Moderate" or "Low" performance  | Present Status   | 5 Year Action Plan |
|--------------|--------------|--|----------------------|---|---|---|---|--|--------------------|
|              |              |  | H                    | M | L | N |   |  |                    |
|              |              |  |                      |   |   |   |   | Internal and External Coordination body established<br>5 Pickup<br>10 Motorbike  |                    |
|              |              | Monitor and Supervise the Master Plan work   |                      |   |   | ✓ | There is no GCC own master plan<br>No work for master Plan<br>1 Town planner<br>0 Vehicle<br>No monitoring system<br>1 PC<br>No GIS<br>0 Vehicle<br>0 Motorbike | Master Plan prepared<br>1 Chief Town Planner,<br>2 Deputy Town Planner,<br>5 Assistant Town Planner,<br>5 Sub-Assistant Town Planner<br>10 Surveyor<br>15 PC with GIS software<br>10 GPS<br>Training on GIS conducted<br>RS Data base Management<br>Graphic Software<br>Auto CAD Software<br>Internal and External Coordination body established<br>5 Pickup<br>10 Motorbike |                    |
|              |              | Update master plan   |                      |   |   | ✓ | There is no GCC own master plan<br>No work for master Plan<br>1 Town planner<br>No skilled man power<br>0 Vehicle<br>0 Motorbike                                | Master Plan prepared<br>Master Plan updated<br>Training on GIS and Planning  |                    |
|              |              | Compose and implementation of five or more yearly projects                                 |                      |   |   | ✓ | There is no GCC own master plan<br>No Planning body<br>No skill Man power<br>No training on Planning  | Planning Body established<br>5 Years planning proposed<br>Internal coordination established<br>Training on GIS and Planning conducted  |                    |
|              |              | Conduct a survey of the City including its history, statistics, public services and others |                      |   |   | ✓ | There is no GCC own master plan<br>No Survey activities<br>1 Town Planner<br>No training on Survey<br>0 Survey equipment<br>0 Vehicle                           | 10 Surveyor appointed<br>Training on survey conducted<br>5 Town Planner appointed for survey<br>5 Dumpy Level Machine<br>2 Total station<br>Chain measuring Tape<br>5 pickup<br>10 Motorcycle  |                    |
|              |              | Make restrictions, regulations and prohibitions on building and development site           |                      |   |   | ✓ | As GCC is newly borne CC for that reason no master Plan is undertaken and no regulatory body formed.<br>No activities<br>No Law officer<br>No Training          | Law officer appointed<br>Training on Law activities conducted  |                    |

| Function (1) | Function (2)                         | Detail Activities   | Level of Performance |   |   |   | Reason for "Moderate" or "Low" performance                                      | Present Status  | 5 Year Action Plan   |
|--------------|--------------------------------------|---|----------------------|---|---|---|---|---|--|
|              |                                      |   | H                    | M | L | N |   |   |  |
|              |                                      | Monitor development of sites, and erection and re-erection of buildings             |                      |   | ✓ |   | Insufficient man power<br>Shortage of Equipment<br>Insufficient technical skill | 1 Town Planner<br>1 Assts. Engineer<br>Less activities<br>No Training on Monitoring<br>0 Vehicle<br>0 motorbike | Training on Rules/Act conducted<br>5 Town Planner<br>5 Assts. Eng.<br>10 Sub Assts., town planner<br>5 pickup<br>10 Motorbike                                    |
|              |                                      | Impose the restrictions, regulations and prohibitions made according to master plan |                      |   |   | ✓ | As GCC is newly borne CC for that reason no master Plan is undertaken           | No Law Officer<br>No Magistrate<br>No coordination with Police<br>No coordination with other agencies           | 1 Law officer appointed<br>2 Magistrate appointed<br>Coordination body established<br>Coordination with Police established                                       |
|              |                                      | Approve building construction according to the master plan                          |                      |   |   | ✓ | As GCC is newly borne CC for that reason no master Plan is undertaken           | 1 Town Planner<br>No skill on data management<br>No software for Management                                     | 5 Assts. Town planner<br>Software for building management developed<br>Technical data management developed<br>Training on data management and Software conducted |
|              | Site Development Scheme (16.2, 16.3) | Make division of the site into plots  |                      |   |   | ✓ | As GCC is newly borne CC for that reason no master Plan is undertaken           | No activities   | Make strategic plan to achieve function  |
|              |                                      | Provide streets, drains and open spaces   |                      |   |   | ✓ | As GCC is newly borne CC for that reason no master Plan is undertaken           | No activities   | Make strategic plan to achieve function  |
|              |                                      | Reserve, transfer or acquire land for public purposes                               |                      |   |   | ✓ | As GCC is newly borne CC for that reason no master Plan is undertaken           | No activities   | Make strategic plan to achieve function  |
|              |                                      | Estimate and fix price of plots   |                      |   |   | ✓ | As GCC is newly borne CC for that reason no master Plan is undertaken           | No any fixation of plot prize   | Make strategic plan to achieve function  |

| Function (1)           | Function (2)   | Detail Activities  | Level of Performance |   |   |   | Reason for "Moderate" or "Low" performance                            | Present Status                                   | 5 Year Action Plan   |
|------------------------|--|--|----------------------|---|---|---|---|--|--|
|                        |  |  | H                    | M | L | N |   |  |  |
|                        |  | Execute site development scheme  |                      |   |   | ✓ | As GCC is newly borne CC for that reason no master Plan is undertaken | No activities                                    | Make strategic plan to achieve function  |
| SI-17 Building control | Issue notice to the owner of the defective building to take appropriate action to save it's inhabitant, neighboring building and passer-by (17.1-17.2) | Identify the building or anything fixed thereon to be in ruinous state which appears to be dangerous to its inhabitant, neighboring building and passerby (17.1) |                      | ✓ |   |   | List prepared. Continuing   | Notice issued to the owners. Process continuing. | Intensive supervision is done continuously. Adequate manpower recruited. Training on building control Establish coordination with law enforcer |
|                        |  | Issue notice to the owner of such building to take appropriate action to save its inhabitants, neighboring building and passerby (17.1)                          |                      | ✓ |   |   | Notice issued to owners of the building                               | Undo   | Undo   |
|                        |  | In default by the owner, take appropriate action (17.1)  |                      |   |   | ✓ | Under process.  | Undo   | Undo   |
|                        |  | Realize cost incurred by such action in the form of tax levied on the owner (17.1)   |                      |   |   | ✓ | Not yet realized as the process is not complete.                      | Undo   | Undo   |
|                        |  | Prohibit occupation of building in dangerous condition or unfit for human habitation until it has been suitably repaired (17.2)                                  |                      | ✓ |   |   | Notice issued to owners of the building                               | Undo   | Undo   |
| SI-18 Streets          | Construction and maintenance of public streets (18.1-18.4)   | Provide and maintain public street for comfort and convenience of the inhabitants and visitors (18.1)  |                      | ✓ |   |   | On going  | No. of officials is not sufficient               | Assign officials according to approved organogram  |
|                        |  | No street can be constructed without approval of CC (18.2)   |                      | ✓ |   |   | Being followed  | 0  | 0  |
|                        |  | Maintain streets other than public streets as provided in the bye-laws (18.3)  |                      |   |   | ✓ | Not applicable. Regulation needs to be prepared                       | No regulation                                    | Make regulation  |
|                        |  | Issue notice specifying thereon for pavement, channeled, improvement or lightening in any street (18.4)  |                      | ✓ |   |   | Being done through PPR 2008   |  | 0  |
|                        |  | In case of default, complete the work through its agency (18.4)  |                      | ✓ |   |   | Being done departmentally   | 0  | 0  |
|                        |  | Realize the cost incurred by such action in the form of tax levied on the person concerned (18.4)  |                      | ✓ |   |   | Being done  | 0  | 0  |
|                        | General provisions about streets   | Assign names of the streets and fix the name plates (18.5)   |                      |   | ✓ |   | Some of the road is named, some has not been named.                   | 0  | 0  |

| Function (1)  | Function (2)                  | Detail Activities   | Level of Performance |   |  |                      | Reason for "Moderate" or "Low" performance                               | Present Status  | 5 Year Action Plan   |
|---|-------------------------------|---|----------------------|---|--|----------------------|--|---|--|
|   |                               |   | H                    | M | L  | N                    |  |   |  |
|   | (18.5-18.9)                   |   |                      |   |  |                      | Process continued.   |   |  |
|   |                               | To see that no person destroys or removes the name plates (18.6)  | ✓                    |   |  |                      | -  | 0   | 0  |
|   |                               | Lay down street lines and building lines (18.7)   | ✓                    |   |  |                      | -  | 0   | 0  |
|   |                               | Ask to construct the streets or buildings in conformity with such street lines and boundary lines (18.7)                        | ✓                    |   |  |                      | -  | 0   | 0  |
|   |                               | Define nuisances and offences with regard to streets (18.8)   |                      | ✓ |  |                      | No regulation  | There is no regulation  | Make regulation  |
|   |                               | Make arrangement for its prevention and abatement (18.8)  |                      | ✓ |  |                      | No regulation  | There is no regulation  | Make regulation  |
|   | Encroachments (18.9-18.12)    | Prevent illegal encroachment on roads, drains, land, buildings, lane or park of the corporation (18.9)                          |                      | ✓ |  |                      | Lack of manpower and equipment, Court cases.                             | No Law Officer<br>No Magistrate<br>No coordination with Police<br>No coordination with other agencies | Assign officials according to approved organogram<br>Establish coordination system between CC and police |
|   |                               | Remove such encroachment and realize the cost in the form of tax levied on the person responsible for such encroachment (18.10) |                      |   | ✓  |                      | Shortage of equipment.<br>Absence of Magistrate, police and law section. | No Law Officer<br>No Magistrate<br>No coordination with Police<br>No coordination with other agencies | Undo   |
|   |                               | Aggrieved person may appeal to the Govt. and decision of the Govt. shall be final (18.11)                                       |                      |   | ✓  |                      | No such cases took place.  | No Law Officer<br>No Magistrate<br>No coordination with Police<br>No coordination with other agencies | Undo   |
|   | Street lighting (18.12-18.14) | Frame and enforce street lighting scheme in the prescribed manner (18.13)   |                      |   |  |                      | Shortage of fund.<br>Regulation is made.                                 | There is no comprehensive plan for street light   | Make plan for street lighting  |
|   |                               | Survey the total area & calculate the demand.   |                      |   | ✓  |                      | Insufficient man power, Equipment & budget and lack of vehicle           | There is limited surveyor   | Assign officials according to approved organogram  |
|   |                               | Site selection  | ✓                    |   |  |                      |  |   |  |
|   |                               | Tendering   | ✓                    |   |  |                      |  |   |  |
|   |                               | Installation of Pool and street light   | ✓                    |   |  |                      |  |   |  |
|   |                               | Monitoring and Supervise the installment works  |                      | ✓ |  |                      | Lack of Vehicle,<br>Lack of Man Power                                    | There is no vehicle for monitoring<br>There is limited manpower to conduct monitoring                 | Establish monitoring system  |
| Maintenance works in Auditorium, market and Offices, Public Toilet and Passenger shed |                               | ✓   |                      |   | Lack of budget,<br>Lack of Man Power and lack of Equipment and Lack of Vehicle | There is no O&M plan | Make O&M plan<br>Assign officials according to the plan                  |   |  |

| Function (1)          | Function (2)   | Detail Activities   | Level of Performance  |   |   |   | Reason for "Moderate" or "Low" performance  | Present Status   | 5 Year Action Plan  |
|-----------------------|--|---|---|---|---|---|---|--|---|
|                       |  |   | H   | M | L | N |   |  |   |
|                       |  | Maintenance   |   | ✓ |   |   | Lack of man power, Equipment & budget   | There is no O&M plan   | Make O&M plan<br>Assign officials according to the plan   |
|                       |  | Monitor street lighting   |   | ✓ |   |   | Lack of skilled man power, Equipment & vehicle  | There is no monitoring system  | Establish monitoring system   |
|                       |  | Control main switches   |   |   | ✓ |   | Lack of skilled man power   |  | Establish coordination with community   |
|                       |  | Expand electricity in new area  |   |   | ✓ |   | Lack of Budget and Man power  | There is no scope to expand electricity  | Establish coordination with concerned agencies  |
|                       |  | Electric bill pay   | ✓   |   |   |   |   |  |   |
|                       |  | Watering of public street (18.14)   | Take steps for watering of public streets for comfort and convenience of the public (18.14) |   |   |   | ✓   | Lack of manpower and equipment. Absence of regulation.   | There is no activities  |
| SI-19 Traffic Control | Arrangement for control and regulation of traffic (19.1) | Arrangement for control and regulation of traffic (19.1)  |   |   |   | ✓ | Officer of law section are not appointed  | <ul style="list-style-type: none"> <li>Manpower shortage.</li> <li>Shortage of fund.</li> <li>Police is doing the work.</li> </ul> | <ul style="list-style-type: none"> <li>Necessary manpower recruited.</li> <li>Fund provided.</li> </ul>   |
|                       |  | Finalize bylaw on road and traffic rules  |   |   |   | ✓ | Officer of law section are not appointed  | Undo   | Undo  |
|                       |  | Dissemination of bylaw  |   |   |   | ✓ | Officer of law section are not appointed  | Undo   | Undo  |
|                       |  | Enforcement of bylaw  |   |   |   | ✓ | Officer of law section are not appointed  | Undo   | Undo  |
|                       | Public vehicle (19.2, 19.3)                              | Issue silence for public vehicle  | ✓   |   |   |   |   | No regulation  | Make regulation   |
|                       | Fix the rate of fares for the use of public vehicles     | ✓   |   |   |   |   | No regulation   | Make regulation  |   |
| SI-20 Public safety   | Firefighting (20.1-20.2)                                 | Maintain a fire brigade for prevention and extinguishing of fire (20.1)   |   |   |   | ✓ | No firefighting arrangement provided.   | No firefighting arrangement. At present Fire Service and civil Defense Dept. is doing the job.                                     | CC develops its own fire-fighting unit with necessary vehicle, equipment and accessories gradually on long term basis. Manpower recruited and training given. |
|                       |  | On the occurrence of fire within the city any magistrate, any official of fire brigade directing the operation and any police officer may take action according to the Act and regulation |   |   |   | ✓ | There is district level firefighting service<br>There is no capacity to establish the dept. in CC | There is no fire fight service for CC  | Make strategic plan to establish firefighting service   |

| Function (1)                                    | Function (2)   | Detail Activities  | Level of Performance |   |   |   | Reason for "Moderate" or "Low" performance                                      | Present Status  | 5 Year Action Plan   |
|---|--|--|----------------------|---|---|---|---|---|--|
|   |  |  | H                    | M | L | N |   |   |  |
|   | Assistance to Govt. for civil defense related functions (20.3)   | Assist Govt. for civil defense related functions (20.3)  |                      | ✓ |   |   | Absence of manpower   | Shortage of manpower                                  | 1. Manpower recruited.<br>2. Proper training given.  |
| SI-21 Disaster management                       | For the purpose of disaster management within the area of city corp. take appropriate action in co-ordination with local administration according to the Govt. policy and rules (21)     | Take appropriate action in the light of the Govt. rules and co-ordination with the local administration (21) |                      | ✓ |   |   | Lack of manpower and fund   | Shortage of manpower<br>There is no officer in charge | Manpower recruited.<br>Training given for disaster management.<br>Tent procured            |
| SI-22. Trade of dangerous and harmful materials | Ascertainment of dangerous and harmful materials for trade by the Govt.(22.1) Corporation will not allow any person to allow such trade without license issued by the corporation (22.2) | To see that no person carry on trade of dangerous and harmful materials without license (22.2)               |                      |   | ✓ |   | Lack of manpower  | 1. Absence of rules.<br>2. Shortage of manpower.      | 1. Rules framed determining the dangerous and harmful materials.<br>2. Manpower recruited. |
|   |  | To see that no premises or household are used for such trade without license (22.2)                          |                      |   | ✓ |   | Lack of manpower  | Undo  | Undo   |
|   |  | To see that no person keeps any such materials in any premises except for domestic use                       |                      |   | ✓ |   | Lack of manpower  | Undo  | Undo   |
|   |  | To see that no person store or keep such materials in excess of such limits fixed by the by-laws [22.2 (C)]  |                      |   | ✓ |   | Limit not fixed up.<br>Lack of manpower & awareness.<br>No regulation prepared. | Undo  | Undo   |
| SL-23 Graveyard and crematorium                 | Provide suitable places for burial and burning of dead bodies and maintenance and management of such places (23.1-23.4)  | Provide places for burial and burning of dead bodies (23.1)  | ✓                    |   |   |   | -   | Shortage of manpower                                  | 1. Manpower increased.<br>2. Regulation prepared.  |
|   |  | Manage and maintain such places properly (23.2)  | ✓                    |   |   |   | -   | Undo  | Undo   |
|   |  | Register the burial and burning places which are not managed and maintained by the corporation (23.3)        |                      |   |   | ✓ | Regulation not prepared.<br>Regulation to be prepared.<br>Lack of awareness.    | Undo  | Undo   |
|   |  | Inspect and supervise such places (23.3)   |                      |   |   | ✓ | Lack of manpower. Not being done in   | Undo  | Undo   |

| Function (1)                           | Function (2)   | Detail Activities  | Level of Performance |   |   |   | Reason for "Moderate" or "Low" performance                                     | Present Status  | 5 Year Action Plan   |
|--|--|--|----------------------|---|---|---|--|---|--|
|  |  |  | H                    | M | L | N |  |   |  |
|  |  |  |                      |   |   |   | absence of regulation  |   |  |
|  |  | See that no new burial and burning places are established except under a license granted by the corporation (23.4) |                      |   |   | ✓ | Lack of awareness  | Undo  | Undo   |
| SI-24. Trees, parks gardens and forest | Tree plantation 24.1-24.2  | Plant trees to the adjacent space of the public streets and on public places (24.1)                                |                      | ✓ |   |   | Lack of manpower   | 1. Shortage of manpower<br>2. No plant research plan is prepared. | Required manpower recruited<br>Plant research plan prepared and approval taken from Govt.<br>Make reputation |
|  |  | Frame and implement plant-research plan with the approval of the Govt.(24.2)                                       |                      |   |   | ✓ | Lack of awareness  | There is no plan for research                                     | Coordination system with DoE or NGOs established   |
|  | Gardens (24.3-24.5)  | Provide, maintain and manage public gardens for recreation and convenience of the public (24.3)                    |                      |   | ✓ |   | Lack of preparation of regulation.<br>Lack of manpower.                        | There is no regulation  | Make regulation  |
|  |  | Frame and implement garden development plan for each public garden (24.4)  |                      |   |   | ✓ | Lack of awareness & lack of manpower.<br>Lack of fund.                         | There is no development plan                                      | Make plan for public garden based on master plan   |
|  | Provide, maintain and improve open spaces for convenience of the public (24.5) | Provide and maintain open space (24.5)   |                      |   | ✓ |   | Lack of awareness & lack of manpower   | No regulation   |  |
|  |  | Shall be grassed, hedged and improves (24.5)   |                      |   |   | ✓ | Lack of awareness & lack of manpower   |   |  |
|  | Frame forest-plans and its implementation (24.6)                               | Frame forest Development plans providing development of forest and implement the same                              |                      |   |   | ✓ | Lack of awareness & lack of manpower and opening of a separate estate section. | There is no development plan                                      | Make plan based on master plan   |
|  |  | Plant trees and maintain the same according to plan (24.6)   |                      |   |   | ✓ | Lack of awareness & lack of manpower and opening of a separate estate section. | There is no development plan                                      | Implement the plan for forest development  |
|  | Destruction of pests causing damage to trees (24.7)                            | Destroy the pests causing damage to trees and plants (24.7)  |                      |   |   |   | Lack of manpower.  | There no activity   | Make strategic plan to achieve function  |

| Function (1)                | Function (2)  | Detail Activities   | Level of Performance |   |   |   | Reason for "Moderate" or "Low" performance   | Present Status                             | 5 Year Action Plan  |
|-----------------------------|---|---|----------------------|---|---|---|--|--|---|
|                             |   |   | H                    | M | L | N |  |  |   |
|                             | Control of noxious growth of trees and creepers (24.8)  | Issue notice to the owner of the premises where noxious growth of trees, creeper and herbs takes place to remove the same (24.8)  |                      |   | ✓ |   | Lack of awareness. Lack of manpower.   | There no activity                          | Make strategic plan to achieve function   |
|                             |   | Clear the same if the owner of such premises failed to do so and realize the cost thereof in the form of tax levied on him (24.8) |                      |   | ✓ |   | Lack of awareness. Lack of manpower.   | There no activity                          | Make strategic plan to achieve function   |
|                             | Felling of dangerous trees and trimming branches of trees causing obstruction to traffic (24.9)                     | Arrange felling of any trees which are dangerous and likely to cause obstruction to traffic (24.9)                                |                      | ✓ |   |   | Lack of awareness. Lack of manpower.   | There no activity                          | Make strategic plan to achieve function   |
|                             |   | Trim the branches of trees which overhang and likely to cause obstruction to traffic (24.9)                                       |                      |   | ✓ |   | Lack of awareness, lack of manpower.   | There no activity                          | Make strategic plan to achieve function   |
|                             | Prohibit cultivation of dangerous crop (24.10)  | Prohibit cultivation of any crop which is considered dangerous to public health (24.10)   |                      |   |   | ✓ | Lack of awareness. Lack of manpower.   | There no activity                          | Make strategic plan to achieve function   |
| SI-25 Tanks and low         | Excavation and re-excavation of tanks, Reclamation of low-lying areas (25)  | Excavate and re-excavate tanks (25)   |                      | ✓ |   |   | Under process.   | Under process.                             | Re-excavation of tanks done and leased out for income generation.   |
|                             |   | Reclaim low-lying areas (25)  |                      | ✓ |   |   | Under process.   | Under process.                             | • Low lying areas reclaimed and properly managed.   |
| SI-26 Education and culture | Management and maintenance of educational institution and fixation of fees for use of such institutions (26.1-26.4) | Maintain educational institution as required by the Govt. (26.1)  |                      | ✓ |   |   | Lack of Infrastructure, manpower and logistics. Should be done Education & cultural section. | 1. Steps for registration are being taken. | 1. All registered educational institutions which are nationalized transferred to the Govt.<br>2. New quality educational institutions taken up by the CC. and properly managed. |
|                             |   | Manage any other educational institutions for promotion of education with prior approval of the Govt. (26.1)                      |                      |   |   | ✓ | Not being done. Should be done by Education & cultural section.                              | There is no activity                       | Make strategic plan to achieve functions on education and culture (SI-26)   |
|                             |   | Educational institutions maintained by the corporation shall conform to such standard as prescribed (26.2)                        |                      |   |   | ✓ | Not in practice  | There is no activity                       | Undo  |
|                             |   | Levy such fees for use of educational institutions as prescribed (26.3)   |                      |   |   | ✓ | Not in practice  | There is no activity                       | Undo  |
|                             |   | Give financial aid to private educational institution within the city with prior approval of the Govt. (26.4)                     |                      | ✓ |   |   |  | Being done pending Govt. approval.         | There is no activity  |



| Function (1)  | Function (2)                              | Detail Activities   | Level of Performance  |   |   |                     | Reason for "Moderate" or "Low" performance                      | Present Status       | 5 Year Action Plan                  |   |
|---|---|---|---|---|---|---------------------|---|----------------------|-------------------------------------|---|
|   |   |   | H   | M | L | N                   |   |                      |                                     |   |
|   | Compulsory education (26.5)               | Enforce compulsory education in the city (26.5)   |   |   |   | ✓                   | None  | There is no activity | Undo                                |   |
|   |   | Ensure that every child of school going age in the city attends school recognized by the corp. (26.5) |   |   |   | ✓                   | None  | There is no activity | Undo                                |   |
|   | General provisions about education (26.6) | Construct and maintain building to be used as hostels for students.(ka)                               |   |   |   | ✓                   | Absence of taking such projects.                                | There is no activity | Undo                                |   |
|   |   | Give scholarship to deserving and meritorious students (kha)  |   |   | ✓ |                     | Not adequate. Shortage of fund                                  | There is no activity | Undo                                |   |
|   |   | Arrange training program to teachers (ga)   |   |   |   | ✓                   | Jointly being done with education dept.                         | There is no activity | Undo                                |   |
|   |   | Promote adult education (gha)   |   |   |   | ✓                   | Absence of taking such scheme                                   | There is no activity | Undo                                |   |
|   |   | Provide school books to orphans and poor students free of cost or at concessional rates (uma)         |   | ✓ |   |                     | Shortage of fund.   | There is no activity | Undo                                |   |
|   |   | Maintain sale centers for sale of books and stationeries (cha)  |   |   |   | ✓                   | No scheme   | There is no activity | Undo                                |   |
|   |   | With prior approval of the Govt. (chaa) :   |   |   |   | ✓                   |   | There is no activity | Undo                                |   |
|   |   | 1) Promote and assist educational societies.  |   |   |   | ✓                   | Not in practice.  | There is no activity | Undo                                |   |
|   |   | 2) Survey and implement educational plans.  |   |   |   | ✓                   | Absence of taking such scheme.                                  | There is no activity | Undo                                |   |
|   |   | 3) Provide milk or meals to school children free or at cheaper cost.                                  |   |   |   | ✓                   | Absence of taking such scheme. Budget provision should be made. | There is no activity | Undo                                |   |
|   |   | Adopt any other measures likely to promote cause of education (26.6) (ja)                             |   |   |   | ✓                   | Shortage of fund  | There is no activity | Undo                                |   |
|   |   | Promotion of cultural activities (26.7)   | Establish and maintain information centers for spread of education and community development (Ka) |   |   |                     | ✓   | Lack of awareness.   | Office Assist.- cum PC operator - 1 | 1. Education & cultural officer - 1<br>2. Librarian - 1<br>3. Cataloger -1<br>4. Office Assist. Cum PC operator - 1<br>5. MLSS - 1<br>Make strategic plant to achieve the functions of 26.7 |
|   |   |   | Provide and maintain radio and television set at public institutions and public places (kha)      |   |   |                     | ✓   | Lack of awareness.   | Undo                                | Undo  |
| Establish museums and art galleries for exhibition of articles (Ga) |   |   |   |   | ✓ | Need to be improved | Undo  | Undo                 |                                     |   |

| Function (1)                                     | Function (2)                   | Detail Activities   | Level of Performance   |   |   |   | Reason for "Moderate" or "Low" performance   | Present Status  | 5 Year Action Plan  |
|--|--------------------------------|---|--|---|---|---|--|---|---|
|  |                                |   | H  | M | L | N |  |   |   |
|  |                                | Establish and maintain public halls and community centers (Gha)   |  | ✓ |   |   | Lack of logistics  | Undo  | Undo  |
|  |                                | Celebrate independence day and other national holidays (Uma)  | ✓  |   |   |   | -  | Undo  | Undo  |
|  |                                | Provide reception of distinguished visitors visiting the corporation (cha)  |  | ✓ |   |   | Lack of logistics  | Undo  | Undo  |
|  |                                | Encourage use of national language (Chaa)   |  | ✓ |   |   | Lack of man power  | Undo  | Undo  |
|  |                                | Promote physical culture, encourage public games and sports, and organize rallies and tournaments (Ja)                                  |  |   | ✓ |   | Lack of awareness. Lack of logistics and manpower  | Undo  | Undo  |
|  |                                | Promote tour to cities (Jha)  |  |   | ✓ |   | Lack of logistics and fund   | Undo  | Undo  |
|  |                                | Preserve historical places (ea)   |  |   | ✓ |   | Lack of adequate fund  | Undo  | Undo  |
|  |                                | Provide and develop recreational facilities for the public (ta)   |  |   |   | ✓ | Absence of taking such schemes   | Undo  | Undo  |
|  |                                | Adopt other measures to promote native culture (Tha)  |  |   | ✓ |   | Lack of adequate fund  | Undo  | Undo  |
|  |                                | Establishment and maintenance of public libraries (26.8)  | Establish and maintain general and movable public libraries (26.8) |   | ✓ |   |  | Lack of logistics & lack of adequate fund. No movable public library.   | There is no library   |
| Arrangement of fairs, shows and festivals (26.9) |                                |   |  |   |   | ✓ | Lack of logistics & lack of adequate fund  | There is no activity  | Make strategic plan to achieve the function   |
| SI-27 Social welfare                             | Social welfare activities (27) | Levy fees on the persons attending such fairs (26.9)  |  |   |   | ✓ | Absence of imposing such fees  | Undo  | Undo  |
|  |                                | Establish and maintain welfare homes, asylums, widow homes and other institutions for relief of the distressed (ka)                     |  |   |   | ✓ | Lack of awareness and absence of drawing such scheme. Absence of opening social welfare sec. | <ul style="list-style-type: none"> <li>• No social welfare section.</li> <li>• No such vehicle.</li> <li>• Shortage of manpower.</li> </ul> | Assign officials according to approved organogram<br>Make strategic plan to achieve the function of SI-27 |
|  |                                | Provide burial and burning of dead bodies of paupers at the expenses of the corp. (kha)   |  | ✓ |   |   | Lack of vehicles and manpower.   | Undo  | Undo  |
|  |                                | Adopt measures for prevention of beggary, prostitution, gambling, taking of injurious drugs, consumption of alcoholic liqueur, Juvenile |  | ✓ |   |   | Absence of manpower and opening of separate social   | Undo  | Undo  |

| Function (1)              | Function (2)  | Detail Activities   | Level of Performance |   |   |                       | Reason for "Moderate" or "Low" performance   | Present Status  | 5 Year Action Plan   |
|---------------------------|---|---|----------------------|---|---|-----------------------|--|---|--|
|                           |   |   | H                    | M | L | N                     |  |   |  |
|                           |   | delinquency and other social evils (ga)   |                      |   |   |                       | welfare sec.   |   |  |
|                           |   | Organize social service volunteers (gha)  |                      |   |   | ✓                     | Absence of manpower and opening of separate social welfare sec. No such budget provision | Undo  | Undo   |
|                           |   | Adopt measures for promotion of the welfare of women. Children and people of backward classes (cha)                                     |                      |   |   | ✓                     | Absence of manpower and opening of separate social welfare sec.                          | Undo  | Undo   |
|                           |   | Adopt any other measures for promotion of social welfare (chaa) (27)  |                      |   |   | ✓                     | Absence of manpower and opening of separate social welfare sec.                          | Undo  | Undo   |
| SI-28. Development plan   | Preparation and implementation of development plans (28.1)  | Prepare and implement development plans for specified period with prior approval of the Govt.   |                      | ✓ |   |                       | Absence of adequate fund in the budget   | <ul style="list-style-type: none"> <li>• Shortage of fund.</li> <li>• Being done through UPPRP project.</li> <li>• Scheme under process.</li> </ul> | Development plans prepared and implemented.  |
|                           |   | Provide specified function in such plans [28.1(a)]  |                      |   |   | ✓                     | Not yet provided   | Undo  | Undo   |
|                           |   | Collection of finance for such plan, it's implementation and supervision [28.1(b)]  |                      | ✓ |   |                       | Absence of adequate fund   | Undo  | Undo   |
|                           |   | Govt. may direct to expend from income of any specified item of the corp. partly or fully to implement any development scheme [28.1(c)] |                      | ✓ |   |                       | As desired by the Govt.  | Undo  | Undo   |
|                           | Community development plan (28.3)   | Prepare and implement community development projects in the prescribed manner (28.2)  |                      | ✓ |   |                       | Being implemented through UPPRP project.   | CDC supported by UPPRP<br>No CBO supported by UGIIP active  | Sustain CDC<br>Reactivate active Community Groups (CG)<br>Facilitate activity of Community Group |
| Commercial schemes (28.4) | Draw up and implement schemes for under taking commercial and business enterprise in the prescribed manner with prior approval of the Govt. |   | ✓                    |   |   | Scheme under process. | There is no activity   | Develop commercial scheme   |  |