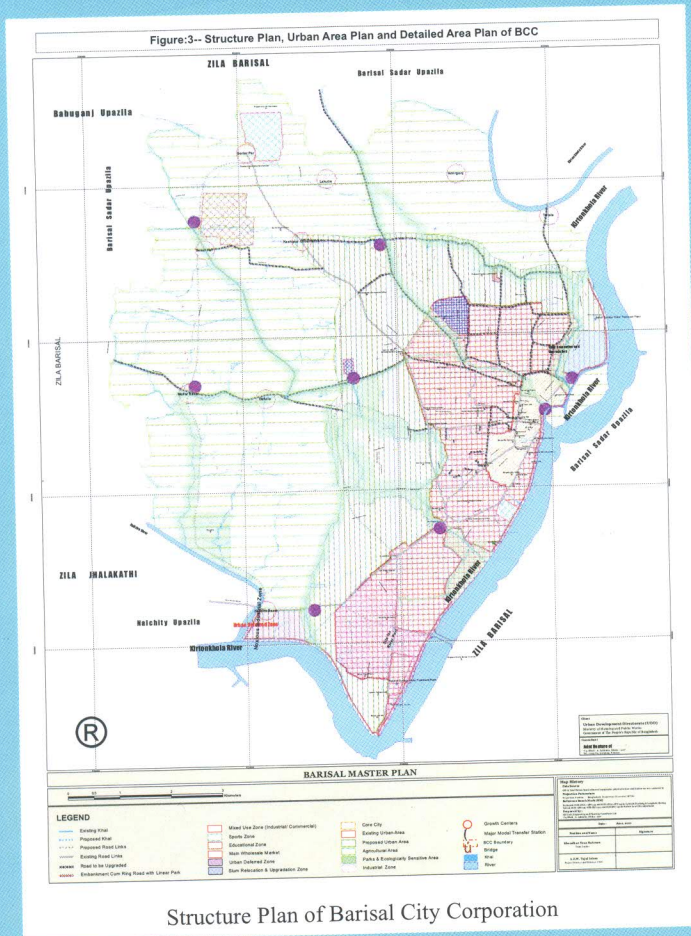




# Research on Implementation Status on Master Plan of Barisal Divisional Town (2010-2030)



URBAN DEVELOPMENT DIRECTORATE  
MINISTRY OF HOUSING AND PUBLIC WORKS  
GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH  
June, 2015



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## ACKNOWLEDGEMENT

It is our pleasure to express the heartiest satisfaction that Urban Development Directorate (UDD) has successfully completed a Research Work entitled "Implementation Status of Barisal Master Plan (2010-2030)". This Research Work is done in pursuit of good practice in implementation of master plan prepared by UDD.

The research team is highly grateful to Mr. Khandker Fowze Muhammed Bin Faird, Director, UDD, for his encouragement, providing necessary support for undertaking the research work. Without his active patronage, continuous support and encouragement it was not possible to complete such research work in time. The research team express their heartiest gratitude to Dr. K. Z. Hossain Taufique, Deputy Director (Research and Coordination) for providing necessary suggestion for generation of concept, research design and successful completion of the research work.

UDD gratefully acknowledges the effort of Mr. Ahsan Habib Kamal, Honorable Mayor, Barisal City Corporation, for extending his timely cooperation in conducting the study.

Team also acknowledge the assistance of Mr. Khan Muhammad Nurul Islam, Chief Engineer, Mr. Abdul Motaleb, Superintending Engineer, and Ms Nandita Basu, Chief Planning Officer of Barisal City Corporation with highest gratefulness for providing with necessary data and information relating status and process of implementation of Barisal Master Plan.

Last but not least, the research team expressed their indebtedness to the assistance provided by the officers and staffs of UDD for providing other necessary assistance for successful completion of the research work.

## **EXECUTIVE SUMMARY**

Master plans are prepared to guide the urbanization of Bangladesh and to minimize the rural-urban gap through decentralization. In pursuit of good practice for implementation of master plans, prepared by UDD, a study has been conducted in Barisal City Corporation (BCC) to get a scenario of its implementation status. The study has been conducted with the objectives of identifying implementation status of Master Plan for Barisal Divisional Town including pros and cons of implementing the master plan, motivation process and also view of the personnel; and view of the local people regarding implementation of master plan as well.

It has been found from the field visit that people were reluctant in implementing the master plan at beginning stage. But, under the dynamic leadership of the Mayor, the plan had been implemented quite effectively. Moreover, motivation of mass people by the personnel involved in the plan implementation process created awareness among the mass people regarding the provisions made under master plan. The study reveals that seminar, workshop, and media coverage would enhance public awareness to a great extent. Dissemination of master plans to the sectoral agencies involved in the respective City Corporation/ Pourashava would increase the implementation status of the master plan. Moreover, close contact with the implementing authority and periodic review and monitoring would be effective to this end.

## Members of the Research Team

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# CHAPTER ONE

## 1 Introduction

### 1.1 Background of the Study

Urban Development Directorate (UDD) is the only government physical planning agency working under the Ministry of Housing and Public Works, Government of Bangladesh, which has been shaping the urban landscape in Bangladesh since 1965 by preparing the master plans, according to its Charter of Duties, for 392 growth centers and 50 cities in 1980s. Recently, UDD has completed three planning packages for three important cities in Bangladesh. This includes master plan for Sylhet and Barisal Divisional Towns and Development Plan of Cox's Bazar town and Sea-beach up to Teknaf. UDD is now working with Comprehensive Disaster Management Programme (CDMP) II for preparing risk sensitive land use plan. This is an example of good practice for preparing master.

Master plans are prepared to guide the urbanization of Bangladesh and to minimize the rural-urban gap through decentralization. Intention of such endeavor is to reduce the primacy of Dhaka and also to reduce the pressure on Dhaka. Hence, there is a need for identifying good practice of implementation of master plan and its implementation process.

### 1.2 Objectives of the Study

In pursuit of good practice for implementation of master plans, prepared by UDD, a study has been conducted in Barisal City Corporation (BCC) to get a scenario of its implementation status. The main objective of the study is to get a central idea about the implementation status of Barisal Master Plan as good practice. However, the objectives of the study are as follow:

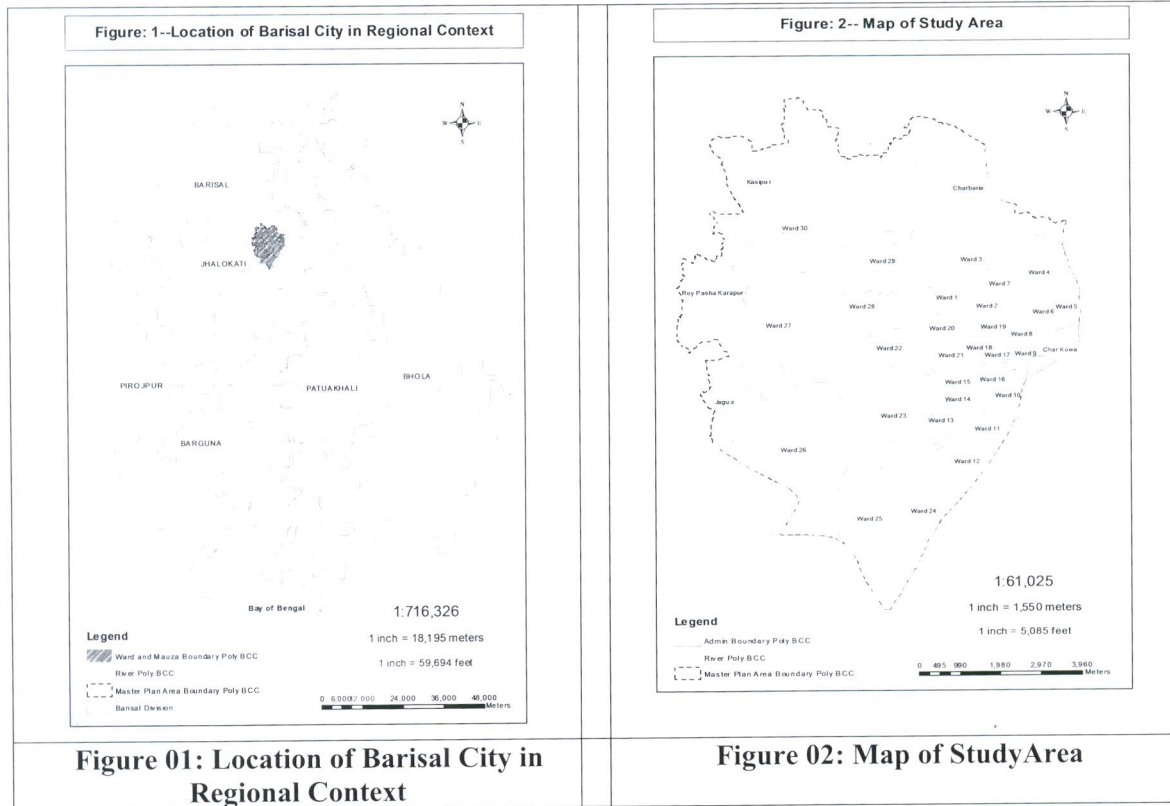
- 01 To identify the features that have been implemented following master plan
- 02 To identify the pros and cons of implementing the master plan
- 03 To identify the motivation process for implementing the master plan
- 04 To know the view of the personnel involved with the master plan
- 05 To know the view of the local people regarding master plan

### 1.3 Scope of the Study

The study would helpful in identifying the good practice of implementation process of the master plans prepared by UDD and which would contribute to develop an institutional arrangement for implementing all the master plans that would be prepared in future; and also to guide the urban development of the country in an efficient manner.

## 1.4 Location of Study Area

The City of Barisal is located in the southern region of Bangladesh between 22° 37' and 22° 43' north latitudes and between 90° 16' and 90° 32' east longitudes. The city is the Divisional Headquarters of Barisal Division (Figure 01). The City is located on the west bank of River Kirtonkhola. Barisal belongs to the coastal region of the country and the city is within 100 km. from the cost of the Bay of Bengal. It is connected with the sea by a number of rivers. Figure 02 shows the study area.



## 1.5 Population of Barisal City Corporation

According to BBS, population of Barisal Pourashava was 173, 761, in 1991 and population of Barisal City Corporation was 225, 335 in 2001. Table 01 shows the population of Barisal Town according to master plan.

**Table 01 Population of Barisal Town**

Year	Population	Annual Growth Rate (%)	Remarks
1991	173,761	2.65	
2001	225,335	3.2	BCC Area

*Source: Compiled from-BBS Census Reports*

## 1.6 Methodology of the Study Area

The following methodology was followed to conduct the study:

- (A) **Digitization of Master Plan Prepared by UDD:** The existing master plan prepared by UDD was digitized by using ARC GIS.
- (B) **Field Visit to BCC:** A field visit was conducted to observe the implementation of master plan.
- (C) **Consultation with the BCC Personnel:** Several consultation meetings were conducted with the BCC personnel including Chief Planning Officer Superintending Engineer and Chief Engineer of BCC, to know about the implementation of master plan including pros and cons of implementation process and also motivation technique applied for implementing the master plan.
- (D) **Consultation with the Mayor:** Consultation meeting was also conducted with the Mayor of BCC, to know about the role of Mayor in implementing the master plan. Since he is the elected person of BCC and he is also custodian of all development activities of BCC area, his vision has been considered as key factor in implementing master plan
- (E) **Tea Stall Meeting the Local People:** Tea stall meeting was also conducted to get an overview of the local people regarding their view and attitude towards implementation of master plan.
- (F) **Data and Information Analysis and Interpretation:** All the data and information collected from BCC was analyzed and interpreted to fulfill the objectives of the study.
- (G) **Preparation of Report:** After compiling the collected data and information and their interpretation, a report was prepared containing information on implementation status of Barisal Master Plan.

## CHAPTER TWO

### 2 Review of Barisal Master Plan

Based on the objectives of the plan, 155 Policies are set out in the master plan. The Structure Plan covers an area of approximately 75 sq-km or 18670 acres. The Three Tier Plan; The Structure Plan, Urban Area Plan and Detailed Area Plan, have been prepared with assuming that setting of a new higher tier institution and restructuring of BCC will take place before the plan implementation starts. The master plan has been gazetted by the Ministry of Housing and Public works, Government of Bangladesh on October 11, 2011

The proposed set of plans under this project consists of a Structure Plan, an Urban Area Plan and Detailed Area Plan; three of them together are called “Master Plan”.

#### 2.1 The Structure Plan (2010-2030)

The structure plan provides guidance for development over a large area and a longer period over time, it is of necessity expressed as policy outline. The structure plan include sectoral strategies like economy, the spatial development strategies,

housing and slum, traffic and transportation, urban land development strategies, environmental and disaster management strategies etc. It also includes a section on the institutional aspects for the implementation of the plan. The sector includes discussion on the constraints and opportunities currently exist on the way for plan implementation. Figure 03 shows the map of Structure Plan, Urban Area Plan and Detailed Area Plan of BCC. The area is of some 18670.16 acres. The document contains a set of policies, which have to be pursued if the broad objectives set for the development of the city are to be achieved.

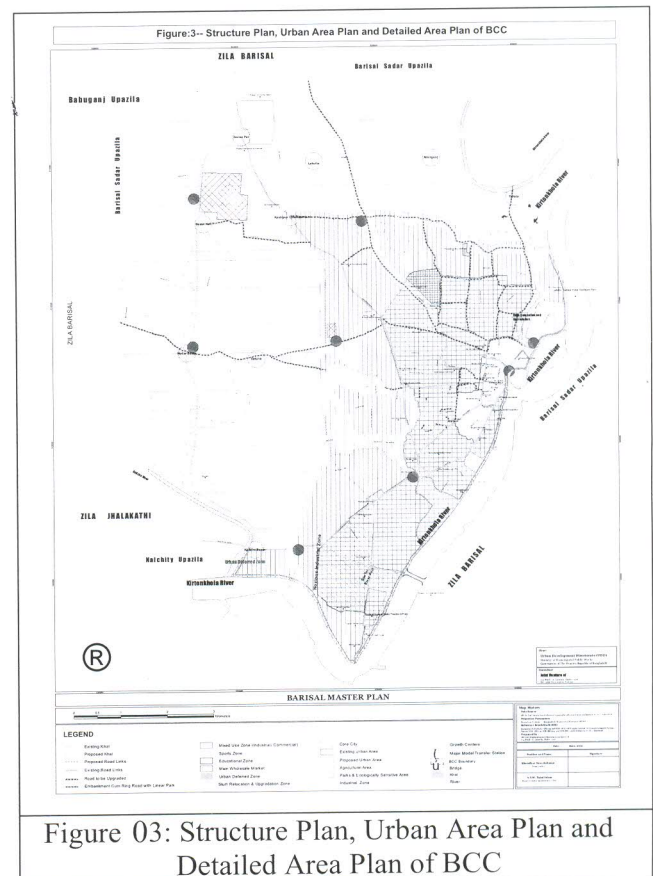


Figure 03: Structure Plan, Urban Area Plan and Detailed Area Plan of BCC

Source: Barisal Master Plan, 2010

## **2.2 Urban Area Plan (2010-2020)**

The plan provides a mid-term strategy for the next ten years for the development of the urban area and defines the geographic boundaries of the extent of area that will cover during the interim plan period. The urban area of Barisal has been divided into 26 Spatial Planning Zones (SPZ).

The Urban Area Plan is limited to the existing built-up urban area. This document elaborated the policies of the Structure plan as far as they affect the area where urban development activities would be concentrated in the medium term. It is for a period of ten years. It gives greater precision to the spatial dimension of the Structure Plan policies.

## **2.3 Detailed Area Plan**

Detailed Area Plan (DAP) is a separate document covering the issues which requires immediate attention during the early period of the structure plan. It examines, in the context of the structure plan, those items that might be implemented in this period and thus detail limited range of subjects than the structure plan.

Detailed Area Plan provides decisions where major changes are required or actions are expected. For the individual parts/issues of the project area, DAP further translates the policies and guidelines of Structure Plan and Urban Area Plan into more executable terms for the control, promotion, coordination and implementation of development initiatives.

## **2.4 Development Objectives**

The development objectives of the master plan area as follows:

- Ensure that Barisal can accommodate the growth of population and economic activities expected in future.
- Promote the idea of transforming Barisal as an IDEOPOLIS City.
- Encourage the growth of Barisal City.
- Ensure higher productivity and value addition to the existing products and services generated through the agro-sector, riverine network and the wetlands.
- Guide the spatial distribution of urban development.
- Extend the provision of urban services and facilities.
- Improve decision making related to funding of urban services and facilities.
- Take environmental consideration fully into account in making decisions related to urban development.
- Give priority to meet the needs of the poor.
- Conservation of common resources across the sector

## **2.5 Memorandum of Understanding Signed between UDD and BCC**

A Memorandum of Understanding (MoU) has been signed between UDD and BCC with the following objective:

“ To consolidate and inter city mutual collaboration to achieve shared goals for providing livable and urban environment initiatives by physical and land use planning to ensure planned development in Barisal City.” The collaboration will be complementary to their activities aimed to promote safer communities by reducing vulnerability of the people and infrastructure in Barisal City including the following:

- (i) Provide technical assistance, advisory services for physical & land use planning management programs through coordination, cooperation and advocacy.
- (ii) Collaboration on training and capacity building activities in Action Area Plan as well as physical and land use planning in Barisal City.
- (iii) Regular exchange/share of appropriate information on physical & land use planning strategies, experiences, methodologies, tools and practices to incorporate disaster reduction techniques, advocacy, awareness raising etc. into land use planning through regular publication, workshop, seminar, conference etc.
- (iv) Development and collaboration of joint research including the conduct of specific pilot projects on crucial urban issues linked to disaster, climate change, environmental development and land use planning.
- (v) Extending necessary cooperation and support to each other in organizing joint events;

## CHAPTER THREE

### 3 Implementation Status of Barisal Master Plan

Implementation status of master plan is stated below:

#### 3.1 Providing NOC for Various Establishments

As part of implementing master plan UDD has provided No Objection Certificates (NOC) for various establishments of BCC area. These are discussed in the following sub-section:

##### 3.1.1 Establishment of Abdur Rab Serniabat Central Bus Terminal at Gariar Pan

According to the policy INFO2 of 'Transport infrastrutive' in vol. I of Barishal Master Plan, there is a provision of establishment 'Proper terminal facilities to be built throughout the network', a pilot project for establishing Abdur Rab Serniabat Central Bus Terminal at Gariar Par as Action Area Plan has been undertaken by BCC. It has been found for the site plan that a part of the selected site is beyond the master plan area. To solve the problem an Memorandum of Understanding (MoU) has been signed between UDD and BCC. But no action has been taken yet.

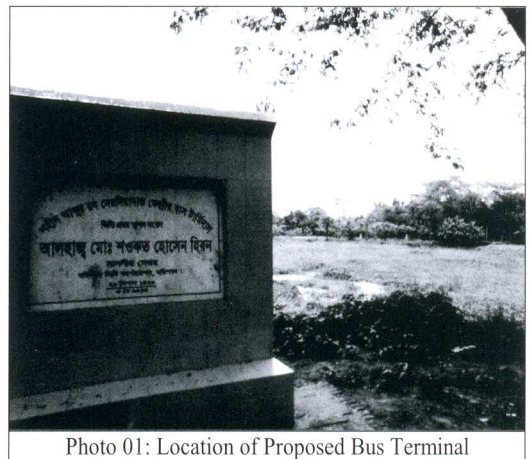


Photo 01: Location of Proposed Bus Terminal

##### 3.1.2 Providing NOC for Constructing the Office of the Deputy Director, Fisheries Department for Barisal Division

Fisheries Department has obtained No Objection Certificate (NOC) from UDD vide memo no – 25.45.0000.000.23.3499-796, dated 15.05.2014 to construct the office of the Deputy Director, Barisal Division at C and B road under Bagura Alekande mouza since the area is under "Expanded Urban Area -09 (EUA-09) of Barisal Master plan, which is designated as mixed land use area and the proposed site is complementary to the land use of surrounding area according to the " Guidelines for General Urban Development the standard procedure.

### **3.1.3 NOC for Establishment of Barishal Bhola Borhanuddin 230 kv Transmission Line Sub Station**

Power Grid Company of Bangladesh Ltd, Proposed to establish Barishal Bhola Borhanuddin 230kv Transmission Line Sub Station at Koladema mouza. The proposed location was not suitable for establishment such sub-station according to Master Plan as the area was located within “Ecological Sensitive Area” under New Urban Area-3, which was within agricultural zone. But proposed sub- station obtains NOC through a Review Committee changing the class of land use of the area, formed through a government Gazette Notification for greater national interest.

### **3.1.4 NOC on Land Acquisition for Improvement of Barisal Textile Institute**

NOC on Land Acquisition for Improvement of Barisal Textile Institute as Shahid Abdur Rab Serniabat Textile Engineering College UDD has proved with NOC for an land acquisition for improvement of Barisal Textile Institute as Shahid Abdur Rab Serniabat Textile Engineering College at New Urban Area (NUA-02) according to Guide Line for General Urban Development the standard Procedure of Urban Plan (Vol-II) of Barisal Master Plan.

### **3.1.5 NOC for Establishment of Kaunia Thana Complex under Barisal Metropolitan Police.**

UDD provided with NOC for establishing Kaunia Thana Complex under Barisal Metropolitan Police at Gauashan Mouza according Simple/ Standard Procedure of Guide Line for General Urban Development with the condition of conserving the protected water body/ pond in the map of master plan. The area is located at EVA-12 (Low density/ Moderate Density Residential and Ancillary use Zone.)

## **3.2 Implementation of Road Network Improvement as Provided in the Urban Area Plan**

The Urban Area Plan in Volume-II provided a guideline on a guideline on road network improvement in three phases including (i) Immediate intervention, (ii) Intermediate Intervention and, (iii) Long-Term Intervention. Under Guidance Note 02: Phasing of Road Improvement Projects. During meeting with the BCC personnel it has been found that most of the road network has been improved by BCC irrespective of phasing covering immediate,



Photo 02: Meeting with BCC Personnel



intermediate (after 5-year) and long-term (after 10-year) time period as provided under the urban area plan.



Photo 03: Road Improvement by BCC

Even BCC has improved the road no. ID 1 PE 02 from Nathullabad Bus Stand towards Dhaka Road, which is under Roads and Highways Department.

This indicates that BCC is well ahead of implementing the provisions of master plan by implementing long term target within 5-year of formulating the master plan. Table 02 below shows the implementation status of road network improvement

as provided in the Urban Area Plan. Figure 04 shown above indicates the major road network improved by BCC, which have been visited by UDD study team during field visit. Figure 05 Shows the pictorial presentation of some locations visited by UDD team

**Table 02: Implementation of Road Network Improvement as Provided in the Urban Area Plan**

Serial No.	Phase	Time Period	Element	ID	Development Measures	Implemented
1	Immediate Intervention	Immediate	Road Section	PU 01	Significant widening, surface improvement, land use character shift	Significant widening, surface improvement,
			Road Section	CE 01	Movement control, lane marking, walkway construction	lane marking (partly), walkway construction
			Road Section	CU 01	Widening, lane marking	Widening
			Road Section	CU 02	Significant widening, pavement upgrading	Significant widening, pavement upgrading
			Road Section	CU 03	Significant widening, pavement upgrading	Significant widening, pavement upgrading
			Intersection	1PE 04	Channelization, widening, signallling flow control mechanism	Widening (partly) (The road is under Roads and Highways Department)
			Intersection	2PE 03	Signallling/flow control mechanism	NotImplemented
			Intersection	2PE 05	Widening, signallling/flow control mechanism	Not implemented (The road is under Roads and Highways Department)

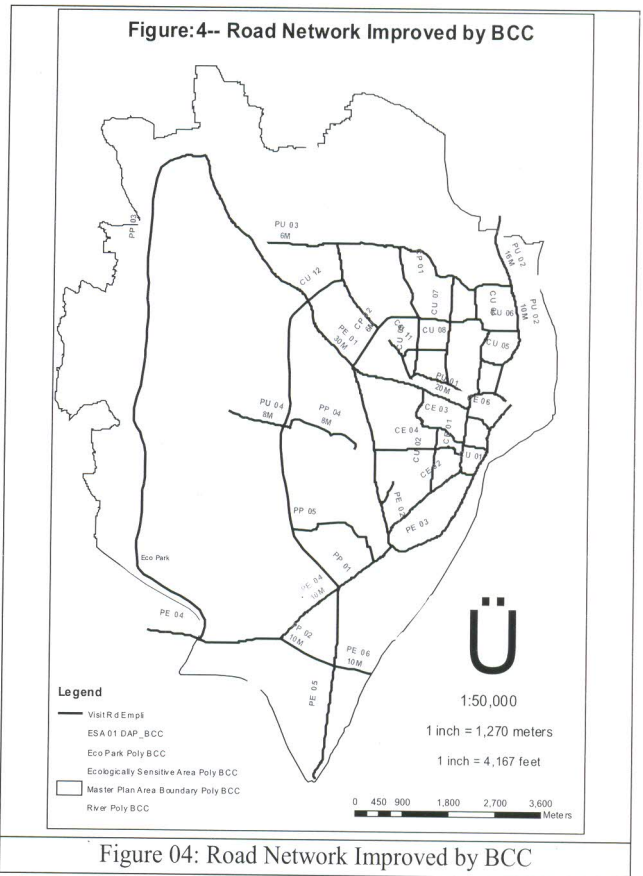


Figure 04: Road Network Improved by BCC

Source: Field Survey, 2015.

Serial No.	Phase	Time Period	Element	ID	Development Measures	Implemented
2	Intermediate Intervention	After 5 years	Road Section	CE 02	Significant widening, walkway construction, land use control	Significant widening, walkway construction, land use control
			Road Section	CE 03	Widening some parts, lane marking	Implemented
			Road Section	CE 04	Surface improvement	Implemented
			Road Section	CE 05	Surface improvement, lane marking	Implemented
			Road Section	CE 06	Surface improvement, lane marking, flow control	Surface improvement Implemented
			Road Section	CU 10	Widening some parts, walkway construction	Implemented
			Intersection	2PE 04	Widening, flow control mechanism	Not Implemented (the road is under Roads and Highways Department)
			Intersection	2PE 05	Widening, signalling/flow control mechanism	Not Implemented (the road is under Roads and Highways Department)
			Intersection	2PE 07	Widening, signalling/flow control mechanism, Surface improvement, channelization	Status not known
3	Long-term Intervention	After 10 years	Road Section	PU 02	Widening, lane marking, flow control, land use control	Widening, lane marking, land use control
			Road Section	PU 03	Significant widening, surface improvement, land use character shift	Significant widening, surface improvement,
			Road Section	PP 01	To be constructed	Partly Implemented
			Road Section	PP 03	To be constructed	Partly Implemented
			Intersection	1PE 01	Significant widening, signalling/flow control mechanism, channelization	This road is under Roads and Highways Department (surface improvement done)
			Intersection	1PE 02	Surface improvement, signalling/flow control mechanism, channelization	Surface improvement on going (Although the road is under Roads and Highways Department, BCC is constructing 4-lane
			Intersection	1PE 03	Significant widening, signalling/flow control mechanism	Significant widening

Source: Meeting with BCC Personnel, 2015

**Figure:5-- Pictorial Presentation of Some Visited Area**

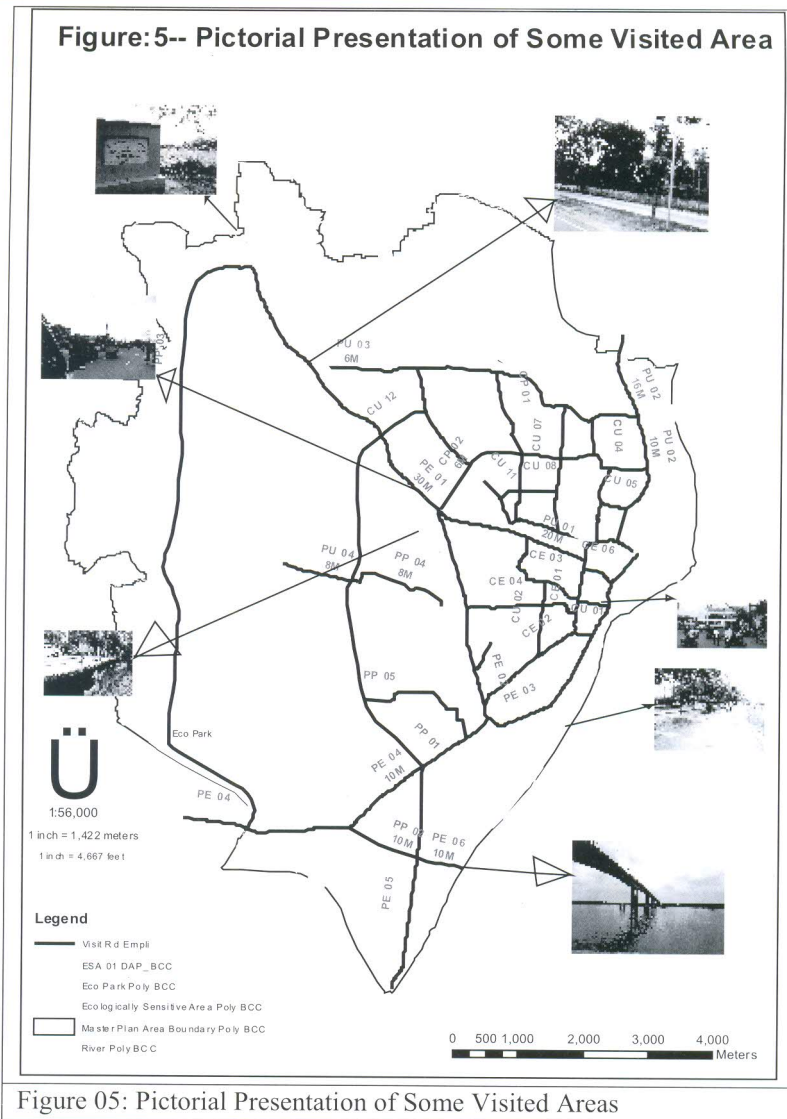


Figure 05: Pictorial Presentation of Some Visited Areas

Source: Field Survey, 2015

### 3.3 Implementation of Provisions Made Under Detailed Area Plan

#### 3.3.1 Tourism Development

Tourism development centering the Khal network has been indicated under detailed area plan (DAP) of BCC Master Plan. Following the DAP, BCC has prepared a project proposal and submitted it to kfw (German Development Bank) for financial assistance under Green Climate Fund (GCF). Now kfw is conducting feasibility study on the proposal. So, BCC is on the way of implementation the provisions of Master Plan. But modal transfer as provided in the Master Plan was not implemented as Khal improvement has not been implemented.

### 3.3.2 Implementation of Other Provisions Made under Master Plan

BCC has established one surface water treatment plant at Beltoli. Two other treatment plants are being constructed. Between the two, one has ninety percent completed and the other has sixty percent completed. Presently Election Commission office and passport office have been established within Administrative zone as indicated in the master plan.

In the process of implementation of the master plan, 1.5 km out of 10 km of embankment cum ring road has been improbod. BCC has established Muktijudha Park on the Bank of river Kirtonkhola beside river port of BIWTA according of provision of the Master Plan. Besides, few new parks have been established including Sukhur Gafur Park at Amanatganj, Amatali Park, awadhinath Park, Shahid Kanchon Park following the Strategy: CF09-Potential Recreational place provided under the

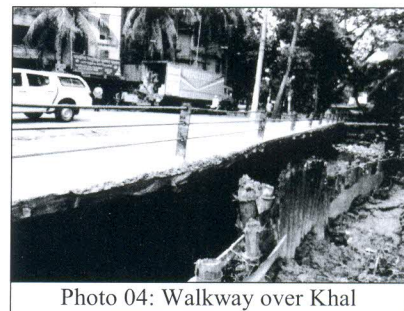


Photo 04: Walkway over Khal

Master Plan. Moreover, BCC has submitted a project to GoB on pond conservation and landscaping including Rakhali Babu Pond, Hatem Ali College Pond, and Paresh Shagan Pond. A university is also going to establish at Barishal following master Plan. Recently a hospital, Apollo Hospital by name, has been established within BCC area. Another hospital named Medinova got approval from BCC to establish on the bank of river Kirtonkhola. Existing khals are being encroached day by day. Moreover, they are being silted. Then sludge is being deposited in the Khals and as a result water logging occurs in some parts of BCC area.

### 3.4 Providing Approval for Building Design

BCC is providing approval for building design according to simple and standard procedure provision made under the “Guideline for General Urban Development of Refining the Development Control System” within a declared land use zone. In this respect ecological sensitive area is being considered for land use control. BCC has provided 246 approvals for building design during the year 2012 to 2014. In case of building, approval for high rise building (6 stories above) is made following the provisions made under master plan. Table 03 shows below reveals the ward wise approval for building design following master plan.

**Table 03: Ward Wise Approval for Building Design**

Ward No.	No. of Building Permission
Ward No 30	24
Ward No 21	20
Ward No 17	19
Ward No 19	17
Ward No 24	16
Ward No 15, Ward No. 18 and Ward No. 20,	14
Ward No 25	13
Rest	123
Total	246

Source: Office Record of BCC, 2015

## **CHAPTER FOUR**

### **4 Implementation Process of the Master Plan**

#### **4.1 Problem Faced At the Early Stage of Plan Implementation and Awareness Building**

In the process of implementing master plan people did not cooperate at the early stage. After counseling now a day, people have started cooperating with a few exceptions in implementation of master plan. It is found from the discussion with the BCC personnel that it has not discussed in any meeting that any project is being implemented according to the provision of master plan. It took long two years to convince people regarding the provisions made under master plan. While someone comes for building permission, it is found that the proposed building plan does not comply with the provisions made under master and the application is rejected. At the early stage people did not want to accept the matter. Often they tried to force the BCC personnel to approve the plan. But, when the plan was not approved by BCC, then he (the applicant) discusses the matter with his neighbours and other people. As a consequence, people come to know about the provisions made under the master plan. In this way people become aware of master plan.

It has been found from the meeting with the BCC personnel at present, BCC does not face any problem in implementing the provision of master which is implemented by BCC itself. Day by day people are becoming conscious regarding master plan. Now, they try to know the provision of master plan regarding their property, and it yielded a good result in case of building permission. But in many cases they do not construct building following the approved plan. BCC cannot monitor and enforce the permission of building design due to lack of adequate technical personnel. Sometimes they try to create political pressure for obtaining building permission, which does not comply with the provisions made under master plan.

#### **4.2 Role of Former Mayor in Implementing Master Plan at Early Stage**

During field visit, it has been found that BCC has successfully implemented a significant part of provisions made under the master plan. It has been found from the discussion with the BCC personnel and Tea Stall meetings as well that former Mayor Mr. Shawkat Hossain Hiron had taken a robust initiative to implement the provisions made under master plan. He motivated the people for giving land on development work would increase land value of the area. Those who did not provide land for development activities legal measure had been taken against them. Poor people, who lost their land due to development activities, were rehabilitated. In many cases their houses were repaired by BCC, which were affected due to development activities.

He took land from the from the land owners' for widening of road network within existing legal framework of the GoB. He forced the land owners, who did not follow the setback rule, to give land for road widening. He cited an example by demolishing the house of his close relative, who did not follow the setback rule, and widen the road. He also took initiative to clear the drains form solid waste and impose penalty to the adjacent landowners for cleaning purpose. With his great initiative master plan was implemented properly.

#### **4.3 Constraints to Implementation of Master Plan**

Following are the problems faced by BCC in implementing the master plan:

- Due to political pressure, some building permissions are giving which do not comply the provisions made under master plan.
- In many cases khals and canals are becoming narrow due to encroachment and also construction of new roads and also widening of existing roads.
- BCC found it difficult to enforce the provision of master plan, while any development work had been implemented by private sector.
- In many cases, different offices construct buildings depending on availability of space. So, it is difficult to follow master plan effectively.
- One of the major drawbacks for implementing the master plan is that the role of planner is not well recognized by BCC authority. In many cases planning decisions are made without the consent from planner.
- There is a provision of creating a separate planning department consisting of six planners in the revised organogram under the master plan. But, still now no attempt has been made for the said purpose, rather a planning cell has been established under engineering department. This is one of the major hindrances to implement the provisions made under master plan.
- Plan should be reviewed and monitored in every five year. The plan is not getting importance by the BCC authority, due to lack of proper monitoring and review.
- It has been found from the discussion with the BCC personnel that participation of people in the consultation meeting on the draft master plan prepared by UDD was low. Although adequate measure was taken including circulates notice in the newspaper regarding the meeting to inform mass people of BCC. Since people are not aware absent the master plan, the do not want to follow it.

#### 4.4 Role of UDD in Implementation of Master Plan

During the meeting BCC Personnel utter that UDD has supplies one copy of master plan and asked the authority to procure the master plan from UDD as many as the need. But BCC is the custodian of the plan. So, UDD should provide with required member of copies of master plan to BCC. Also adequate steps have not been taken by UDD to create awareness regarding the plan. So, the master plan is not well-accepted by the custodian, BCC. The BCC personnel suggested that UDD should provide master plan to all sectorial agencies working in BCC area. Then it would be possible to follow master plan by all agencies. Since any workshop or dissemination meeting was not conducted by UDD in BCC area, public awareness had not been created on the master plan.

#### 4.5 Vision of the Mayor

A meeting was held with the Honorable Mayor of BCC Mr. Ahsan Habib Kamal in presence of BCC officials and councilors. During the meeting the Mayor informed that sludge of the drains has been removed. So, drainage congestion and water logging do not take place within BCC area. It was also observed during field visit that these were no water logging and drainage congestion after heavy shower recession of rain water was occurred within fifteen minutes after one hour heavy shower.



Photo 05: Meeting with the Mayor

The Mayor also utter that various development activities including road improvement, widening has to be conducted in BCC area. The Mayor expressed his willingness for drainage improvement considering natural slope of the topography for further improvement of drainage system.

The Mayor expressed his vision citing experience of Thailand that he would like to promote tourism through river cruising. To do so, he would connect the internal khal system by connecting them with the Kirtenkhola river through re-excavation of the khals and would also provide walk ways beside the Khals.

He also expressed his keen interest for increase revenue through recycling of waste by using RRR (Reuse, Reduce, and Recycle) technique.

In case of waste management door to door waste collection system has been introduced in BCC area. The citizen of BCC are not charged for the collection of waste. BCC has provided three wheeler van for waste collection. But medical waste management system has not introduced yet.

He requested UDD to revise the master plan for locating the bus terminal on master plan. Because, a part of location of bus terminal is within BCC area and a significant part is outside BCC area. So, the part, which is outside BCC area is required to include within BCC area hence, is essential to revise the master plan.

The Mayor also urges that industry is the pre-condition for development of urban areas. There is a site for BSCIC industrial estate in BCC. But no industrial development has been taken place in spite of potential for industrial development in the area. Only a few industry has been established in the area. He also started that it is possible to supply gas, from Bhola to BCC then would promote industrial development. If garments industries are decentralized, then it is possible to promote industrial development in the cities and towns like Barisal. He expressed his expectation that implementation of Padma Bridge and Paira Sea Port would act as catalyst for further development BCC.

He concluded that optimum utilization of local resource would promote development of the nation highlighting the experience of Vietnam that on 15 decimal of land is provided to each family for residential development

#### **4.5 Suggestion by the BCC Personnel for Better Implementation of Master Plan**

Awareness on master plan among local people, politician, local elite and technical personnel the including Mayor and councilor is essential. Ward wise workshop may be arranged comprising of all strata of the city. Besides, training is required for the technical personnel of BCC for better understanding and effective implementation of master plan. Because, role of a Mayor is the most crucial factor for the development of a town, as Mayor is elected by the mandate of mass people. He can also tackle the political pressure.

Since all the outlets of the drainage system under the drainage plan are provided in the River Kirtonkhola, it is required to review the drainage plan. Moreover, it is also required to provide a treatment plant at the outlet of the drainage system.



## CHAPTER FIVE

### 5 Recommendation and Conclusion

#### 5.1 Recommendation for Effective Implementation of Master Plan

The study reveals that several factors may contribute to better implementation of the master plan. Considering the output of the study following are recommended for effective implementation of master plan in any City Corporation/Pourashava of Bangladesh

- Role of Mayor is very crucial for effective implementation of master plan. The Mayor has to take the leadership in implementation of master plan.
- Ward wise workshop, seminar, public meeting including Mayor, counselor, City Corporation personnel, politicians, local elites, various professional, mass people should be arranged for building public awareness.
- Circulation in mass media encompassing advertisement in daily newspaper, cable TV network etc. can build public awareness regarding master plan, which in turn would help to implement the master plan more efficiently.
- Capacity building of the personnel of City Corporation/Pourashava is essential for effective implementing master plan.
- City Corporation/Pourashava and various sectoral agencies involved in implementing master plan should be provided with required number of master plan so that they can get the master plan on hand for getting an idea about the provisions made under master plan.
- A separate planning cell is essential to build capacity of the City Corporation/Pourashava for implementation of master plan.
- People's participation is essential in development process to ensure participatory development, which would help efficient implementation of master plan.
- Periodic monitoring and review of master plan is also required for effective implementation of master plan.

#### 5.2 Concluding Remarks

It is evident from the study that Mayor is the key person for implementing of master plan. Hence, a dynamic leadership of Mayor may impart good practice in implementing master plan. Besides, participatory planning and development is another crucial factor that may contribute to efficient implementation of master plan. Without people's participation in planning, whether it may be a good planning document, will not be implemented effectively.

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