

CHAPTER 1	BACKGROUND INFORMATION .....	A-1
1.1	Introduction .....	A-1
1.2	Physical Setting .....	A-3
1.3	FCDI Chronology.....	A-7
1.4	FAP: Flood Action Plan.....	A-13
1.5	NWMP: National Water Management Plan Project .....	A-30
1.6	NWRD: National Water Resources Database .....	A-38
1.7	GIS Data: Geographical Information System .....	A-45
CHAPTER 2	WATER SECTOR ENTITIES .....	A-56
2.1	NWPo: National Water Policy.....	A-56
2.2	NWRC: National Water Resources Council.....	A-59
2.3	MoWR: Ministry of Water Resources .....	A-62
2.4	HWDB: Flood Forecasting and Warning Centre.....	A-64
2.5	BWDB: Bangladesh Water Development Board.....	A-66
2.6	FFWC: Flood Forecasting and Warning Centre .....	A-68
2.7	WARPO: Water Resources Planning Organization .....	A-79
2.8	RRI: River Research Institute .....	A-83
2.9	SWMC: Surface Water Modelling Centre.....	A-87
2.10	EGIS: Environmental and Geographical Information System Support Project for Water Sector Planning .....	A-91
2.11	MIS: Management Information System and GIS in LGED: .....	A-98
CHAPTER 3	HYDROLOGY AND RIVER MORPHOLOGY .....	A-102
3.1	Flood Types in Bangladesh .....	A-102
3.2	Water Level and Discharge .....	A-106
3.3	River Morphology .....	A-110
3.4	Water Level at Cross Section .....	A-121
3.5	Probability Analysis .....	A-124
3.6	Hydraulic Models.....	A-127

## CHAPTER 1 BACKGROUND INFORMATION

### 1.1 Introduction

#### 1.1.1 Background of the Study

##### (1) Objective of the Study

1. To minimize flood damage and to enhance livelihood of local people in Char and Haor Areas where geographically located in the flood prone zones in Bangladesh.
2. To transfer technology to counterpart personnel in the course of the Study regarding to survey methods, plan formulation and technical practices.

##### (2) Scope of the Study

1. Phase I: Basic Survey and Master Plan formulation over the whole Study Area.
2. Phase II: Feasibility Study on the priority projects selected out of the Master Plan.

This Hydrology and Hydraulic Report aims to provide “Water Sector Data Book” for the Master Plan Study with special emphasis on operational situation of the water sector in Bangladesh.

#### 1.1.2 Approach Adopted

There are three main components of the Study which correspond with each Chapter of the Report:

1. To assess experience and performance related to water sector in Bangladesh,
2. To overview the water sector entities with their roles and workings in Bangladesh; and
3. To process preliminarily hydrology and hydraulic data for the Master Plan Study.

#### 1.1.3 Acknowledgements

The Study Team has received support from an enormous range of organizations and individuals. Particularly assistance has been provided by LGED, BWDB and WARPO staff in Dhaka and the zones. This Study has also depended heavily on the writers of the references noted in the contents and relevant websites. These would not have been possible without the assistance of such information from the data sources.

The Study Team are also grateful to all members of the Steering Committee, LGED Expanded Meetings and PCM Workshops for their precious comments, continued guidance and valuable suggestions extended to the Team throughout the Study course.

