

Project Features

(1)Observation System

Manual Observation System

No change

Telemeter System

Water level observation: sonar type sensor / sensing pole type sensor Rainfall observation: tipping bucket type

(2)Data Transmission System

Manual Observation System
Digital transmission system:

- mobile communication system (HF data transmission system)

Automatic recording system in computer in control station

Telemeter System

From Gauging station to Regional station:
- BWDB VHF Link

From Regional station to Central control station:

- BWDB HF Link

(3)Analysis System

All the data, manual observation and telemeter, are to be used

Regional Control System

- Forecasting with Regional model

- Monitoring with telemeter observed data

Central Control System

Central Control System
- Forecasting with Nationwide model (Supermodel)

(4) Warning Dissemination System
Warning Message Dissemination (Forecasted)
From Regional control station to O&M office, DC office, Upazilla office:
- E-mail, Fax, Telephone with T&T public line
Point to Point Direct Data Dissemination (Telemeter only)
From Telemeter Gauging Station to O&M office, Upazilla office:
- VHF Link
Warning Dissemination in Local Level

Warning Dissemination in Local Level
From Upazilla/Union to Inhabitant / Shelter:
- Fax, Telephone, Bike, Speaker & visit.

Main Components

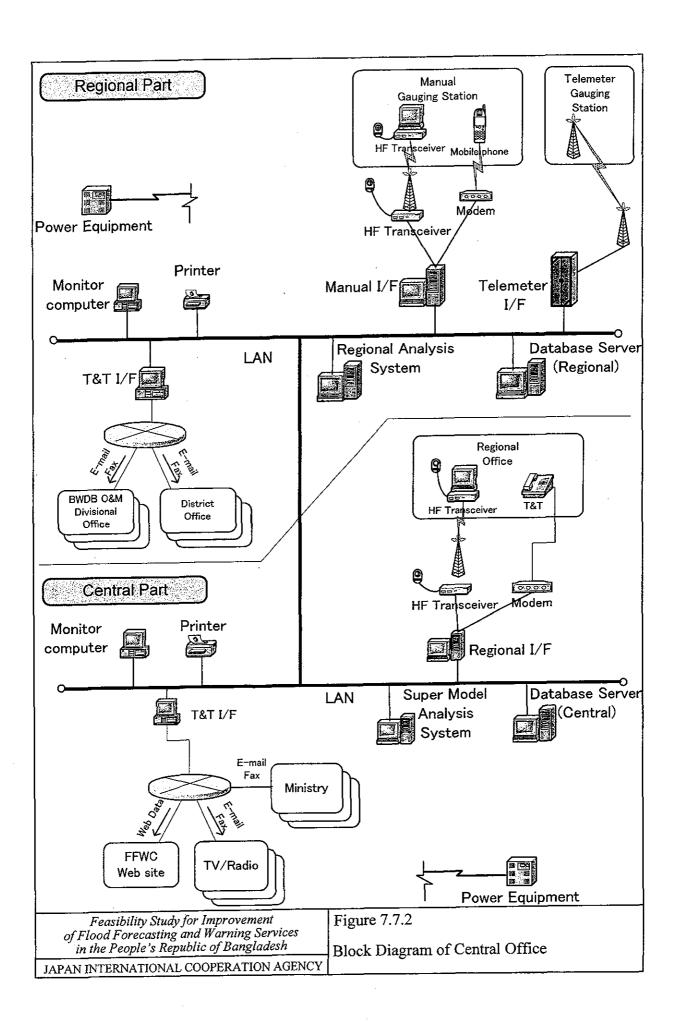
Place	Main Item	Item	Number
Central Office (Dhaka)	Equipment	Database Server (central) Super Model Analysis System Database Server (regional) Regional Analysis System Monitor Computer	1 1 1 1 2
	Office	(Existing FFWC)	
	Others	Vehicle Speed Boat	1 1
Regional Office	Equipment	Database Server (regional) Regional Analysis System Monitor Computer	1x4 1x4 1x4
	Office	New Office	1x4
	Others	Vehicle Speed Boat	3x4 1x4
Repeater Station (O&M office)	Equipment	Repeater Equipment Monitoring equipment	21 9
,	Space	(Existing O&M office)	
Repeater Station	Equipment	Repeater Equipment	. 6
(not O&M office)	Space	New House	6
Telemeter Gauging Station	Equipment	Telemeter equipment	23
		Sonar type sensor Sensing pole type sensor	7 16
	Space	New House	23
Manual Gauging Station	Equipment	Mobile Phone	42
Time Garbara areas		Digital HF system (Existing Wireless station)	43
Point to Point Direct	Space Equipment	Monitoring equipment	32
Dissemination	Space	(Existing Upazilla office)	

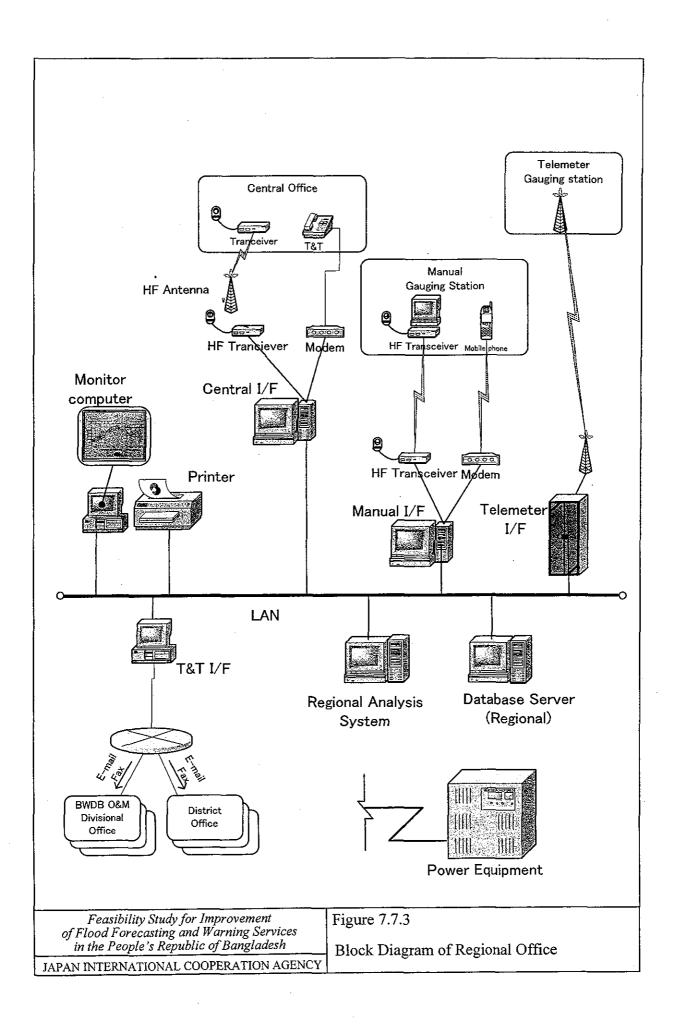
Feasibility Study for Improvement of Flood Forecasting and Warning Services in the People's Republic of Bangladesh

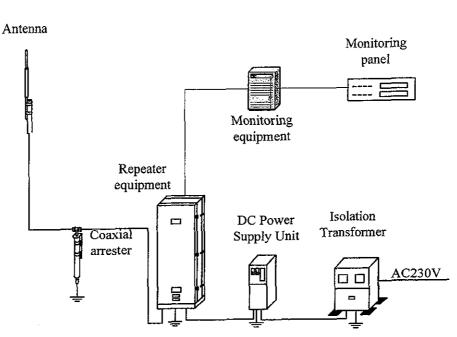
Figure 7.7.1

Summarized Features of Proposed Project

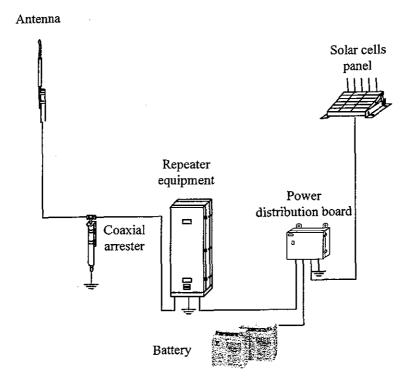
JAPAN INTERNATIONAL COOPERATION AGENCY







Repeater Station in O&M Office



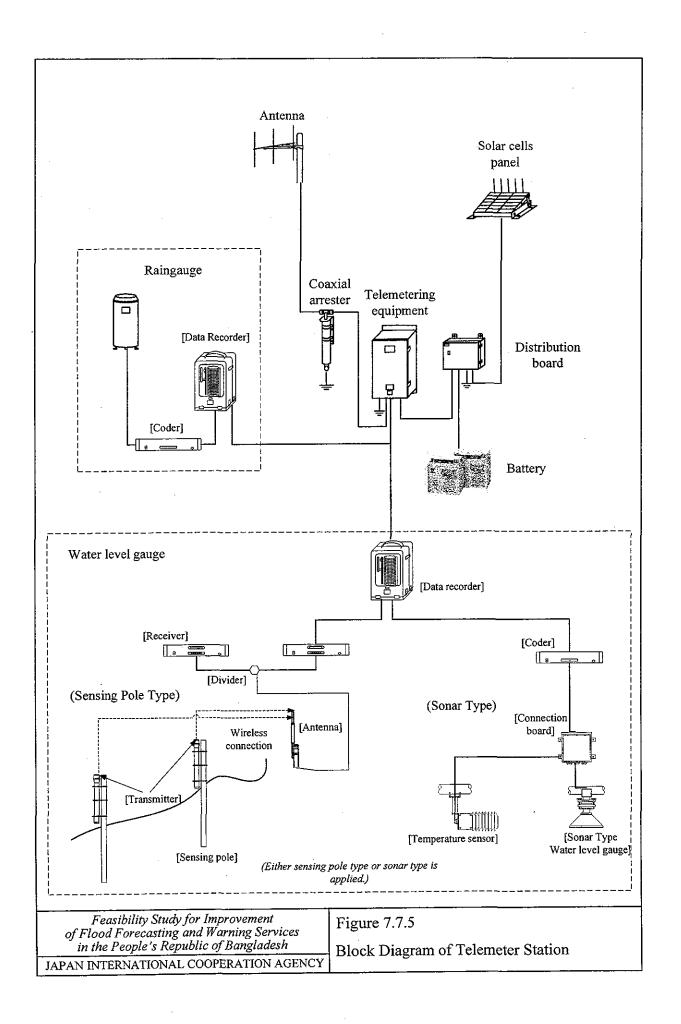
Repeater Station in Upazilla without O&M Office (not Upazilla office)

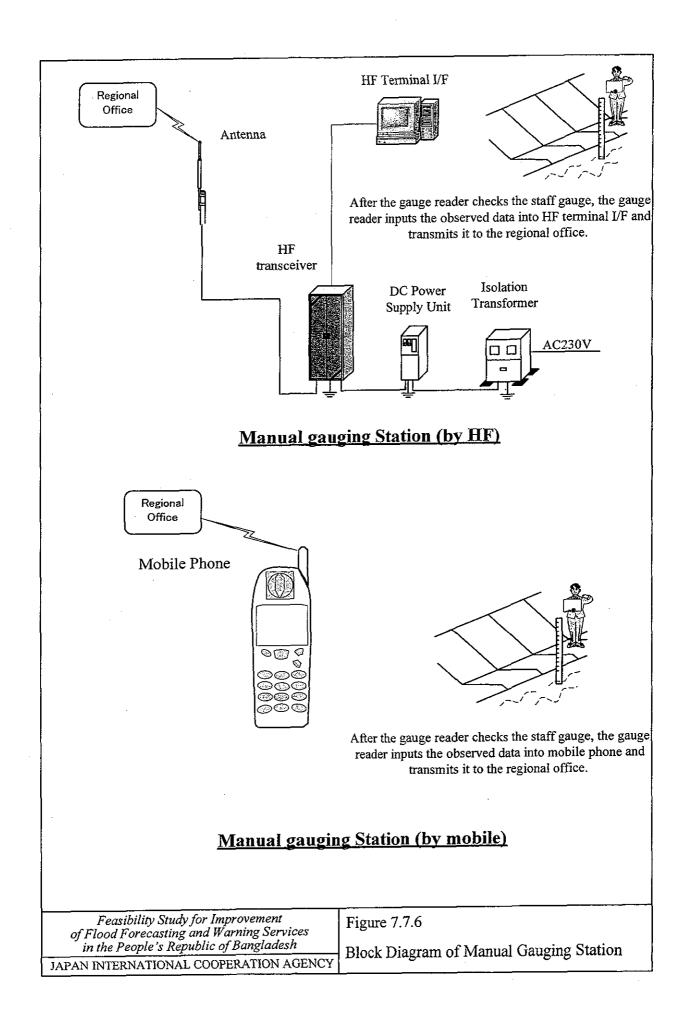
Feasibility Study for Improvement of Flood Forecasting and Warning Services in the People's Republic of Bangladesh

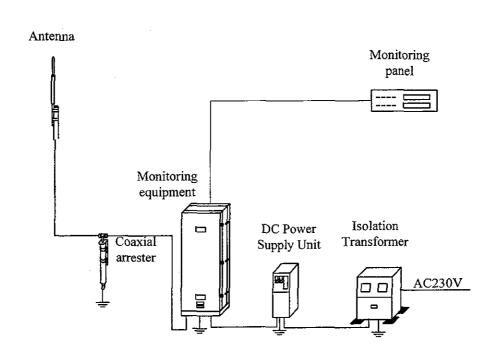
JAPAN INTERNATIONAL COOPERATION AGENCY

Figure 7.7.4

Block Diagram of Repeater Station







Point to Point Direct Dissemination

Feasibility Study for Improvement of Flood Forecasting and Warning Services in the People's Republic of Bangladesh

JAPAN INTERNATIONAL COOPERATION AGENCY

Figure 7.7.7

Block Diagram of Point to Point Direct

Dissemination

