





Climate Resilient City and Urban Environmental Sustainability

Mymensingh Municipality, Bangladesh Area: 70.98 km²

Elevation: 19 m from the Sea level

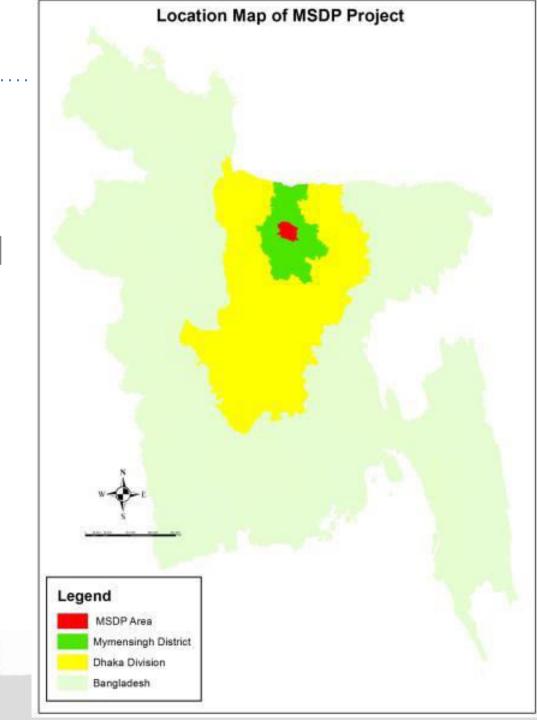
Population: 258 Thousands



Location of the Municipality

The Mymensing
Municipality is Located
at the center part of
the Newly established
Mymensingh Division

The city established on 1787.



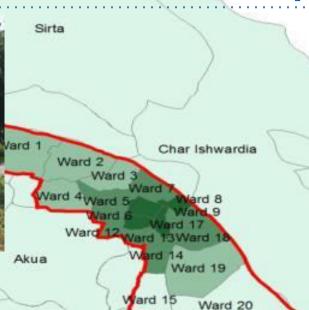
Location of the Municipality



The Old King's House, Shoshi Lodge



The Circuit House



The Brahmaputra River,
Mymensingh

Ward 21 Evidence of Earthquake
Damage in Mymensingh

Bhabkhali

Baera

Damaged Court Building of Mymensingh due to earthquake in 1897 with 8.7 Mw



City profile

1.A Characteristics of the city:

Population is about 258 Thousand

Area 70.98 sq. km.

Demographic density is 3,635 per Sq. Km.

Height above sea level 19 m

HDI 139th out of 188 countries and the point is 0.579

GDP of Bangladesh is \$275 in 2017-2018 fiscal Year

GDP per capita in 2017 is 1359 usd



City Profile

1.B Characteristics of the city:

Mymensingh is the oldest city of Bangladesh about 220 year old city along the river Brahmaputra.

In 2017 it has been declared the Divisional Town and in April, 2018 it has been declared city corporation also.

Mymensing is also Known as the city of Education.

Historically Mymensing City is well known for the Jute Production but Now a days Fish cultivation is More contributed to the Local and national Economy.

City profile

2. City's issues/needs

Problems the City Facing:

From the Climate change context this city is facing extreme flood in last few Years. And also the drainage congestion is high in the city.

Needs/interests:

The specific Policy Level Measures and also the implementation strategies should be needed for he city in terms of Climate change and urban environment sustainability.



Goals and Objectives

Goals:

To improve the capacity of the city to protect/cope with the monsoon flooding and make city healthier

Objectives:

- Improve the drainage system to alleviate water logging in areas
- Build and protect retention areas and flood buffer zones.
- Prepare a plan for storm water management and institutional arrangement involving key stakeholders, service providers and decision makers.
- **Develop a contingency plan** to allow limited flooding in designated areas in case of extreme rainfall events
- Prepare a plan for priority activities and financing.

SWOT Analysis

Strength

Analyze the Flood Situation

Awareness

Organizational Setup

Policies

Weakness

Skilled Manpower

Political will

Funding

SWOT Analysis for Flood

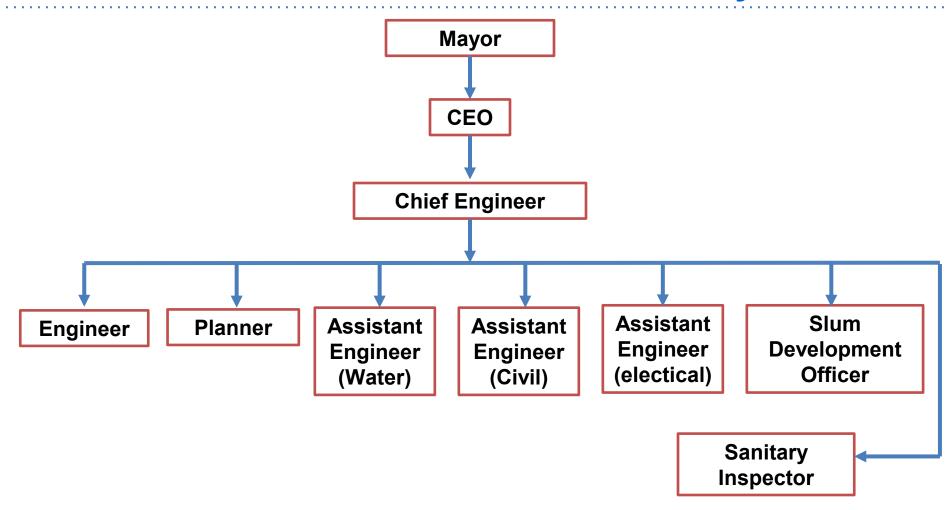
Opportunity

Maser Plan
Water Management policy

Threats

Climate Change
Drainage problem
Health problem

Institutional structure of the city



Municipality initiatives

Adaptation Measures

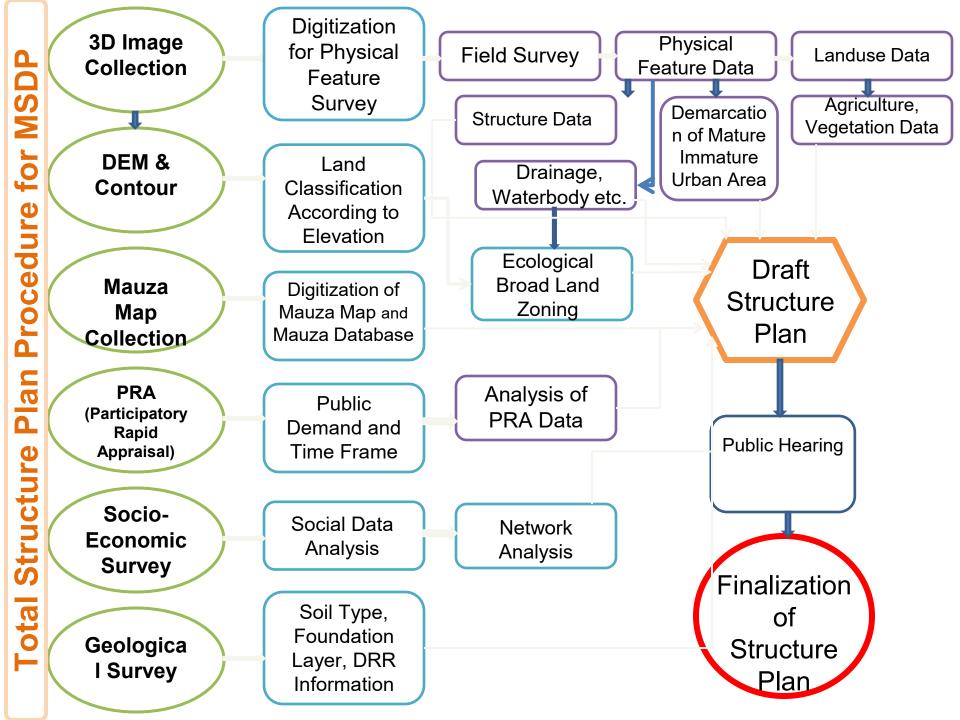
- 1. Proper drainage Channels
- 2. Rules and Regulations
- 3. Embankment

Mitigation Measures

- 1. Conserve the Flood Flow Zone
- 2. Awareness and Communication
- 3. Flood compatible House

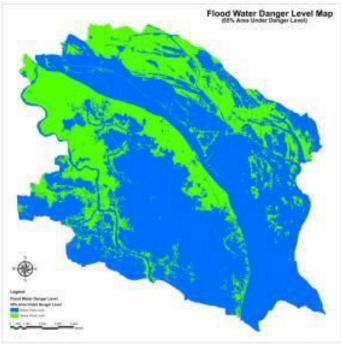


Action Plan Process

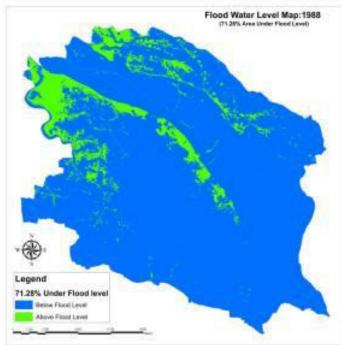


Effect of Climate Change (Flood Scenario)









Eco-Sensitive Broad Land Zoning

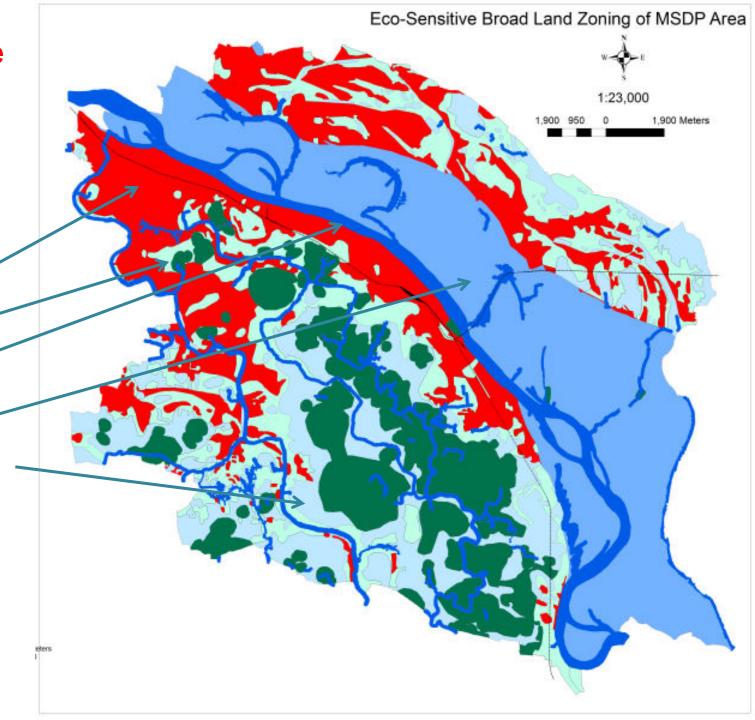
Flood Free Land

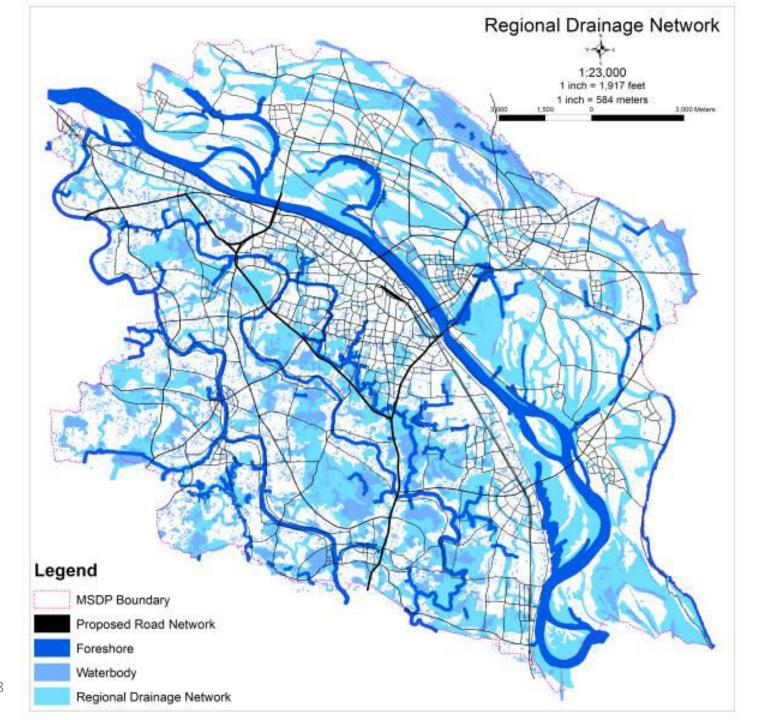
Drainage Sensitive Land

Foreshore

Flood Flow Zone

Sub-Flood Flow Zone





Municipality initiatives

Projects:

☐ Secondary Town Integrated Flood Protection Project (STIFF)

Construction of Drainage and improve Sanitation System

33.28 km Primary and Secondary Drain

3.7 million USD

Financed By-ADB, OPEC, GoB

Secondary Town Integrated Flood Protection Project (STIFFP)









Municipality initiatives

Projects:

☐ Urban Governance and Infrastructure Improvement Projects (UGIIP)

Improve the Capacity of City Governance

Construction of Road, drainage, Reconstruction of Market Places and Bus Terminals

2.9 million USD

UGIIP







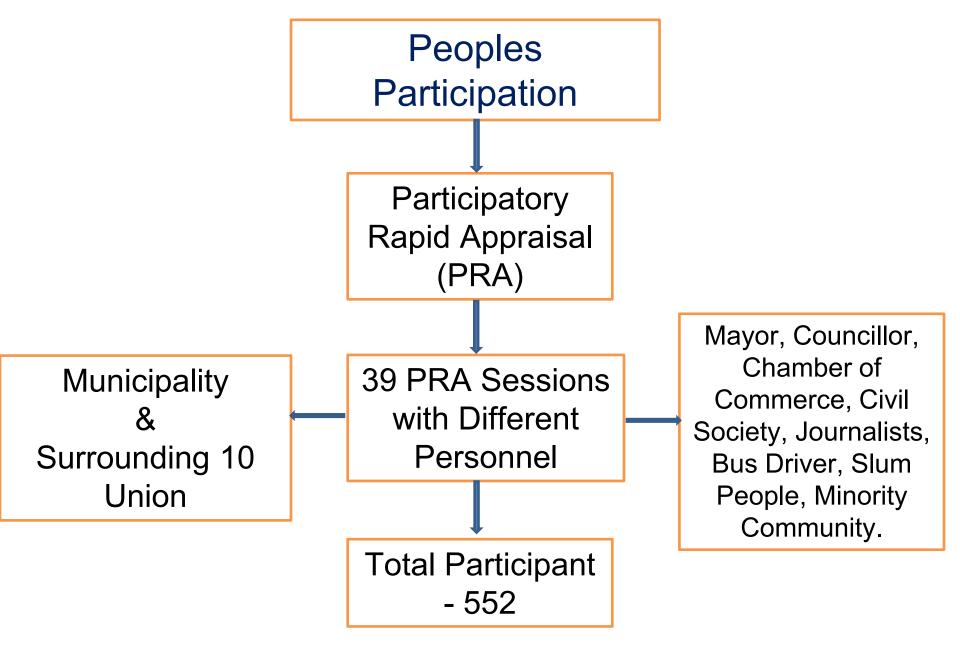


Municipality initiatives

Projects:

- ☐ Pilot Project for Examining "Mainstreaming Climate Change into National Urban Policies"
- Implementing Jointly by UNESCAP, UNEP and UN-Habitat

Stakeholder Analysis



Involved stakeholders by Participatory Rapid Appraisal (PRA)

PRA has been in 21 wards at Municipality Label, 10 PRA in 10 Unions, and 10 with civil Society, business groups, slam peoples, minority community and others.









Policy Framework:

Policies for Main Flood Flow Zone (W/MFZ-1) Land development of residential, commercial and industrial development, except the provisions made under structure plan, including raising the level of land, via land filling, will be strictly prohibited.

- Permitted uses, provided that they cause on adverse hydraulic effect will be:
- Further expansion of rural homesteads will not be allowed to extend its boundary, which indicated in the structure plan.
- Agriculture
- Dry season recreation facilities
- Loading and unloading facilities
- Excavation of mineral deposits, including dry season brick works

Policy Framework:

Policies for Sub-Flood Flow Zone (W/SFZ-1)

Only agriculture and fisheries are allowed in these zones. Existing homesteads should not be extended beyond their present boundaries. Brick fields are to be relocated from these locations to maintain the integrity of the sub-flood flow zone. Land fill will not be permitted at centrally located sub-flood flow zone.

Policy Framework:

Policies for Natural Retention Area (W/NRA-1)

- No physical, social and economical development shall be allowed within the retention area designated in the structure plan, except to continue the agriculture particularly paddy growing activities.
- Existing rivers and khals are to be widening up to 100m immediately.
- Existing brick fields are to be relocated from the designated natural retention areas.
- For widening the existing water control structures (culvert, box culvert, bridge etc.) on the national and regional road network within the natural retention area should be redesigned and redeveloped according to the changing climatic scenario.
- To maintain the integrity of the natural retention area no further new or widening and extension of existing road network shall be allowed.

Challenges/Opportunities

SDG 2030 Goal 13: Climate Change

Take urgent action to combat climate change and its impacts by regulating emissions and promoting developments in renewable energy.

Challenges:

- Lack of Knowledge about Climate Change
- Proper guidance
- Making People Aware abut climate change and its effect
- Propose Policy guideline

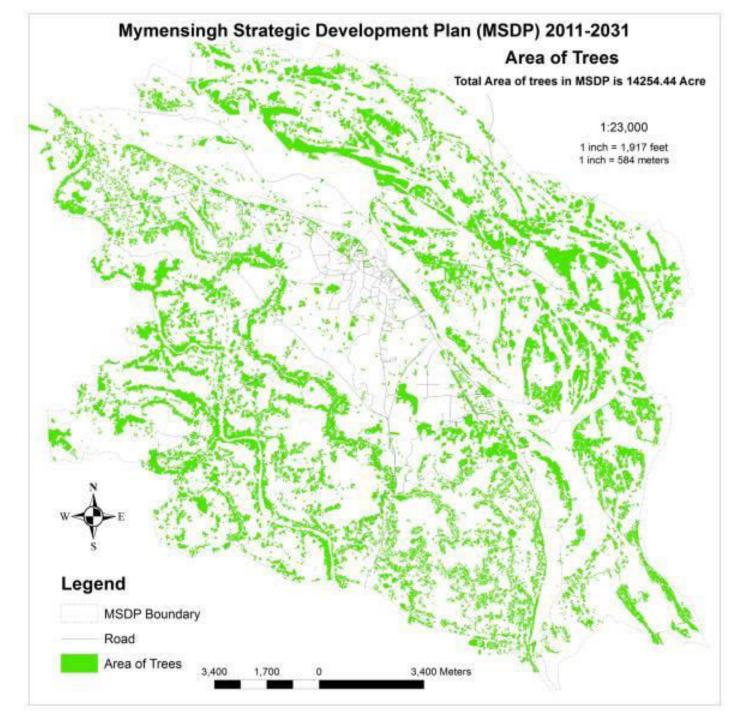
Opportunities

- Master Plan
- Water Management Policy (Water Act, 2013)

Policy Measure has been taken to reduce the effect of Climate Change:

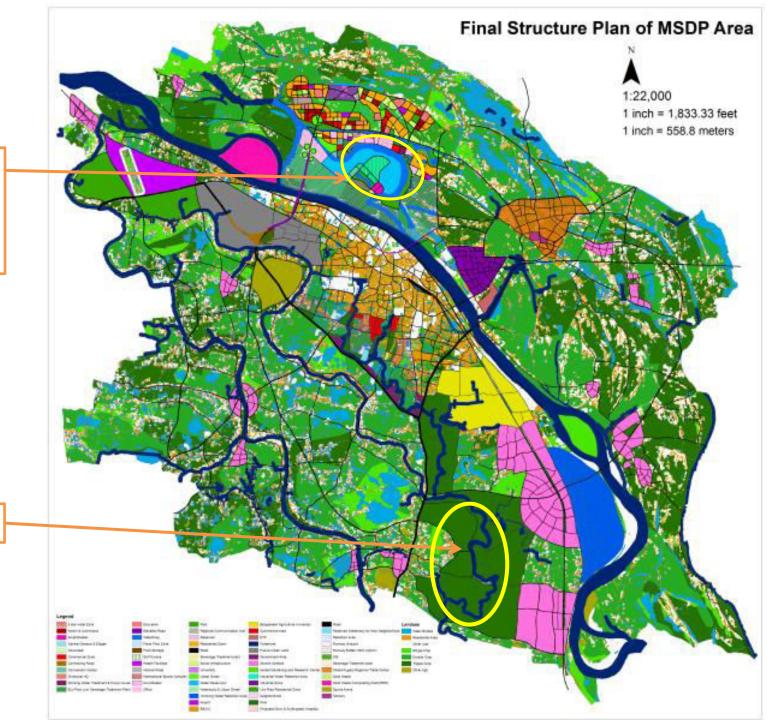
- Preserve the Green Space (Tree and Open Green Space).
- Introduce Renewable Energy (Wave and Solar energy at Divisional New Town)
- Propose New Green Space as Regional Park

Tree



Renewable Energy space at Divisional New Town





Learning from the Training

□ Analyzing vulnerability more specifically.
□ How to approach for a Climate change
□ Planning
□ How to make Climate Change Action Plan.
□ Gather Knowledge about Circular/shared
Economy.



planner.zakia@gmail.com

+8801713399797

Zakia Sultana

Planner

Urban Development Directorate (UDD)
Ministry of Housing and Public Works
People's Republic of Bangladesh



