

Welcome to The Presentation on
DRAFT FINAL DEVELOPMENT PLAN OF NAWABGANJ
UPAZILA

Thursday, 24 May, 2018.

Project Area

Upazila	Area	Sq.km	Total Sq.km
Nawabganj Upazila, Dhaka	Rural	240.24	246.82
	Urban	6.58	

Project Phases

1. Inception Phase

2. Survey Phase

3. Planning Phase

Inception Phase Activities

Task	Date of Performance	Activity Performed	Remark
1. Mobilization and Reconnaissance Survey	9 June-12 June, 2015	<ul style="list-style-type: none"> • Collection of Relevant documents • Collection of Mauza maps • Setting up of Site Project Office • Initial Joint Consultation meeting with Upazila admin, Public Representatives and Cross section of People 	
2. Second Round of Public Consultation Meetings	Aug-Nov, 2015	No. of Uthan Boithak- 3 No. of Tea Stall Meeting-4 No. of FGD- 7	
3. Publication of Project Leaflet	August 2015	Introducing the Project- objectives, Types of plans , the process of planning.	
4. Mobilization	June –July 2015	Mobilization of Consultants and Logistics	

Survey Phase Activity

Task	Date of Performance	Activity Performed	Remark
1. Conducting of PRA	Dec, 2015-Feb, 2016	<ul style="list-style-type: none"> • Social Mapping • Identified Problems and Potential using Venn Diagram • Prioritized Execution of Identified Projects using ToP Chart Method 	<ul style="list-style-type: none"> ▪ Nawabganj: 14 Unions ▪ Av. No. of Participants: 24-30 ▪ Participant: Cross section of People
2. Field survey, data collection and study	July 2016-December 2016	<ol style="list-style-type: none"> 1. Upazila Level Socio-economic Sample Survey 2. Geological Survey and Study 3. Traffic and Transportation Survey and Study 4. Formal and Informal Economic Activity Study 5. Agriculture Sector Assessment Report 6. Hydrological Study 	
3. Establishment of BM pillar	Nawabganj - Jan 2016	1. Construction and setting up of BM Pillars with data inscription	Nawabganj- 16
4. Mauza map collection, and processing	July – October 2016	<ol style="list-style-type: none"> 1. Digitization of maps 2. Georeferencing 3. Spatial Adjustment 	Nawabganj- 190

Survey Phase Activity			
Task	Date of Performance	Activity Performed	Remark
5. Satellite image procurement and processing	December 2016	<ul style="list-style-type: none"> ▪ Procured 3D Satellite Imagery ▪ Collected GCPs and done rectification ▪ Extracted data for field verification and mapping of features 	
6. Physical Feature Survey	January, 2017 May,2017	<ol style="list-style-type: none"> 1. Physical Feature Survey, 2. Land use survey 3. Building Vulnerability Assessment 4. Topo Survey 	Nawabganj- 244.8 sq.km

Focus Group Discussion and Tea Stall Meetings

Nawabganj	No. of FGD	7
	Date	11/08/2015 to 13/08/2015
	No. of Participants	12 to 24 persons
Nawabganj	No. of Tea Stall Meetings	4
	Date	12/08/2015 to 13/08/2015
	No. of Participants	24 to 44 persons
Nawabganj	No. of Courtyard	4
	Date	12/08/2015 to 13/08/2015
	No. of Participants	24 to 44 persons

Focus Group Discussion and Tea Stall Meetings



Tea Stall Meetings

Socio-Economic Survey

Sample households of Socio-economic Survey in **Nawabganj** Upazila

- No. of Sample Households in **Township** areas **68**
- No. of Sample Households in **Unions** **942**

GCP SURVEY

Upazila	Number	Date
Nawabganj	16	05-09-16

Geological Survey Activities

Nawabganj	Borehole	21
	PS Logging	3
	MASW	5

Geological Survey



Downhole Seismic Test data logger



Wooden Plank as Vibration Source



Geophone Lowering in Borehole



Data Acquisition Unit



Direction of Excitations



Geophone Installation

Agricultural Study

Nawabganj (349 samples)



Establishment of BM Pillar

Number of
BM Pillars

Nawabganj
16



Traffic and Transportation Survey (Nawabganj)

Types of Survey	Sample Size/Locations	Name of the Spot
Traffic Volume Count	Intersection Survey: 4 nodes (9 links at nodes) and one road	Tikorpur Nawabganj Proper Notun Bandura Sholla Bazar
	Road Segments Survey: 4 Roads	Notun Bandura Bazar Sholla Bazar Tikorpur Bazar Upazila Mor
O-D Survey	200 Samples at four nodes	Kolakopa Bagmara Bazar Komarganj Hat Bandura
Bus Passenger Survey	40 samples at two locations	Nawabganj Bus Stand Bandura Bus Stand
Pedestrian Survey	40 samples at two locations	Bandura Bazar Baghmara Bazar
Regional Transportation System	4 locations	Kolakopa Baghmara Bazar Komarganj Hat Hasnabad (Holy Cross School)

Traffic and Transportation Survey



Formal-Informal Economy

- **Formal Sector**

- **Ten hats-bazar have been studied**
- **Twenty Bank-Insurance (10 Bank and 10 Insurance Companies)**
- **Ten NGO's and Ten CBO's**
- **Ten Industries**

- **Informal Sector**

- Sample surveys were conducted-
 - ✓ Household level and
 - ✓ Business unit level in trading centers with two separate sets of questionnaires.
- The household surveys were designed to collect information on
 - ✓ Employees
 - ✓ Type and nature of employment
 - ✓ Income level etc.
- Business unit level survey was conducted to collect information on
 - ✓ Investment
 - ✓ Production
 - ✓ Products for local consumption and
 - ✓ Export
- **10 Traders/Sellers were interviewed also**

Formal-Informal Economy



Formal Economic Survey

Consultation with Stakeholders based PRA

➤ PRA

- No. of PRA in Unions 14
- No. of Participants 476

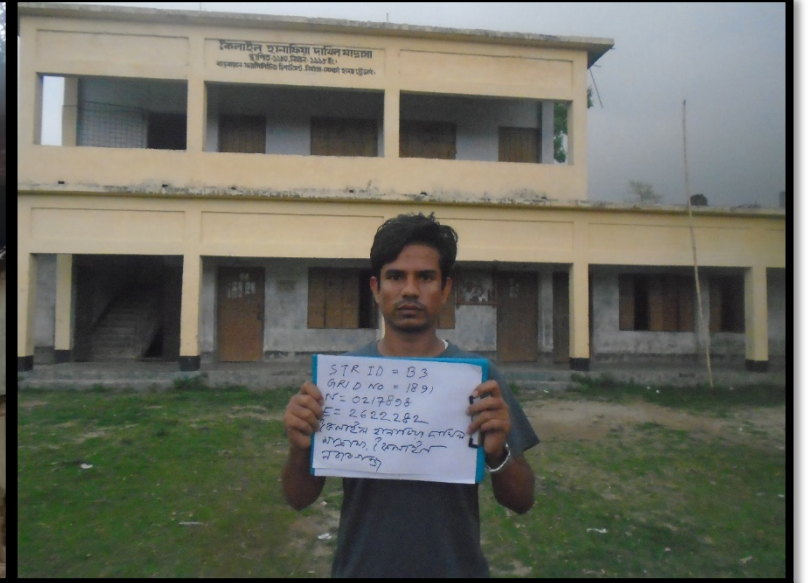
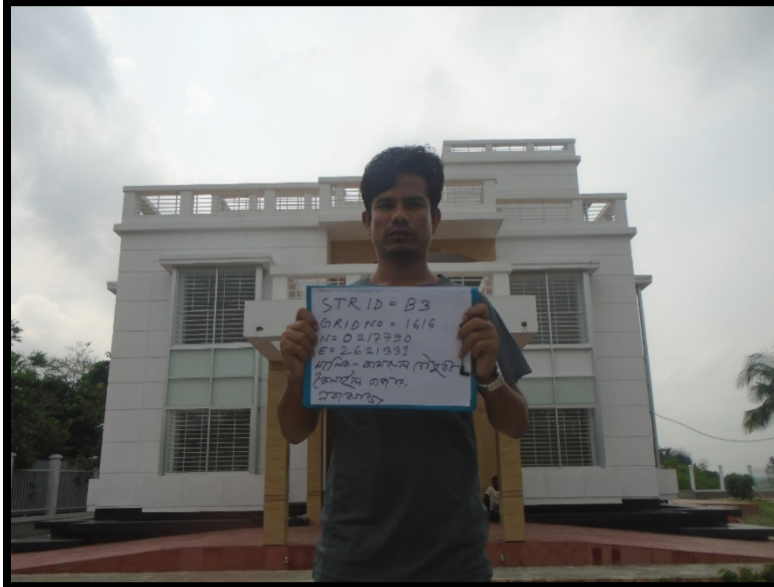
Consultation with Stakeholders based PRA



Conducting Physical Features Survey



Vulnerability Assessment



Field Checking & Supervision



Digitization



Development Fair



Development Fair



Development Fair



Development Fair



Consultation with Honorable MP



Consultation with Honorable MP



Consultation with Honorable MP



Public Hearing



Public Hearing



Public Hearing



Workshop



Workshop



Workshop



Field Visit for Drainage Plan

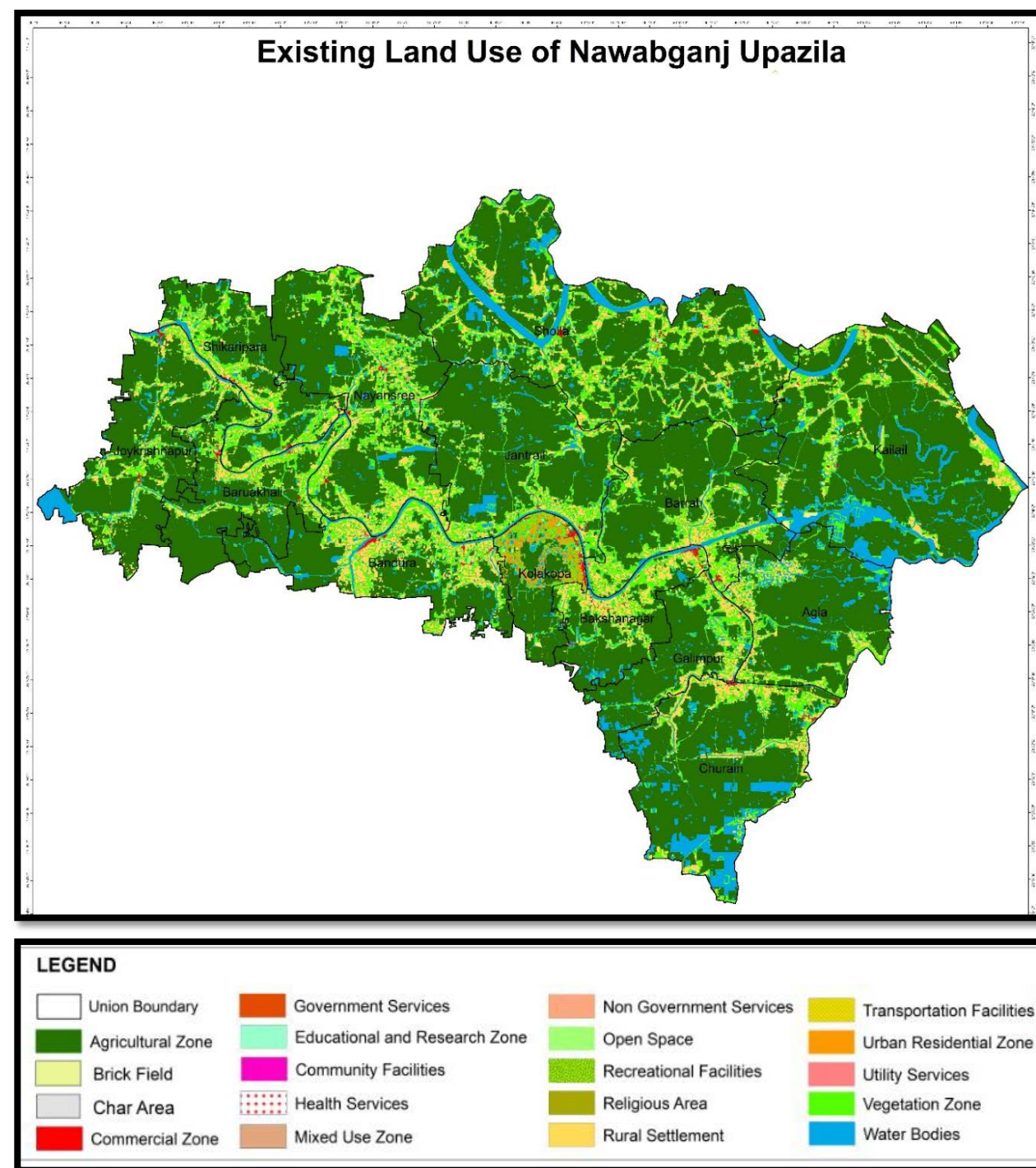
Field Visit for Drainage Plan

THEMATIC MAPS

EXISTING LANDUSE MAP

SI. No.	Land use Category	Existing Land use	
		Area (acre)	%
1	Agricultural Zone	38885.44	63.300
2	Brick Field	47.79	0.078
3	Commercial Zone	222.29	0.362
4	Community Facilities	1.72	0.003
5	Educational and Research Zone	49.37	0.080
6	Government Services	6.84	0.011
7	Health Services	2.98	0.005
8	Mixed Use Zone	22.05	0.036
9	Open Space	149.54	0.243
10	Recreational Facilities	3.44	0.006
11	Religious Area	77.93	0.127
12	Rural Settlement	6023.60	9.806
13	Transportation Facilities	505.00	0.822
14	Urban Residential Zone	292.54	0.476
15	Vegetation Zone	9217.58	15.005
16	Water Body	5922.63	9.641
	Total	61430.72	100

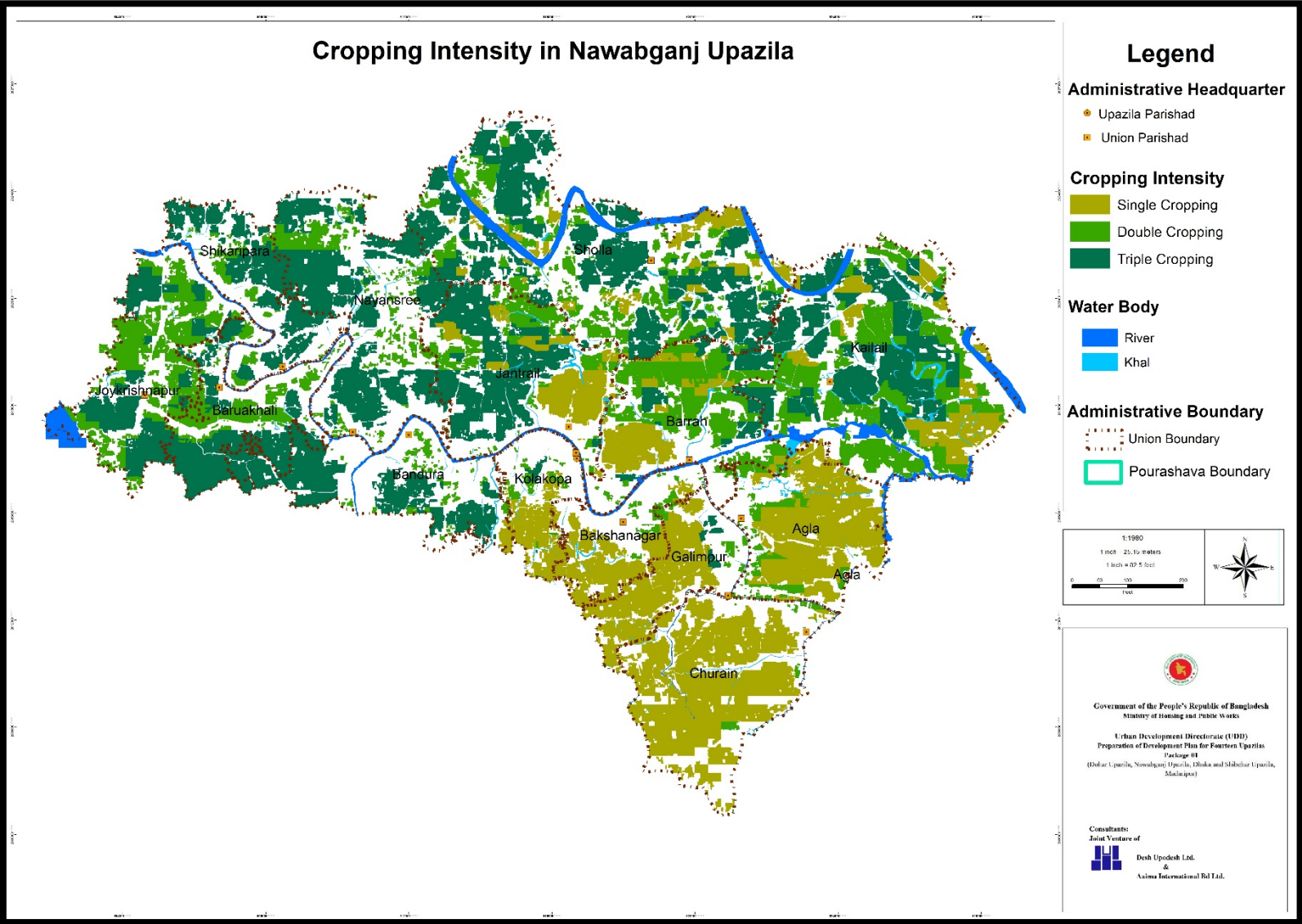
Source: Prepared by Consultant Team Based on Field Survey, 2017



CROPPING INTENSITY MAP

Cropping Pattern	Area in acre	Percentage (%)
Single Cropping	11510.57	31.10
Double Cropping	9849.54	26.61
Triple Cropping	15648.36	42.28

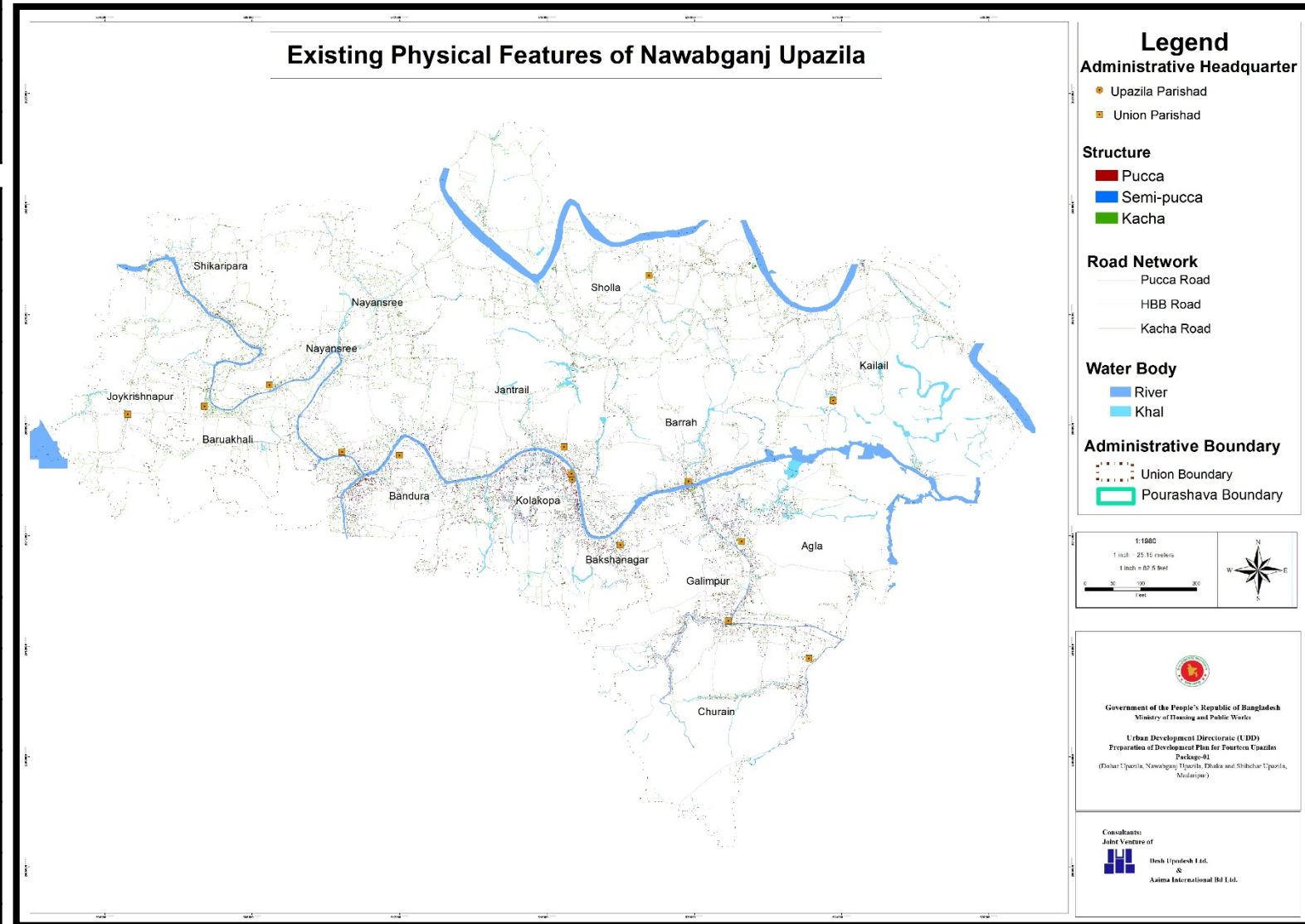
Source: Prepared by Consultant Team Based on Field Survey, 2017



Existing Structural Information

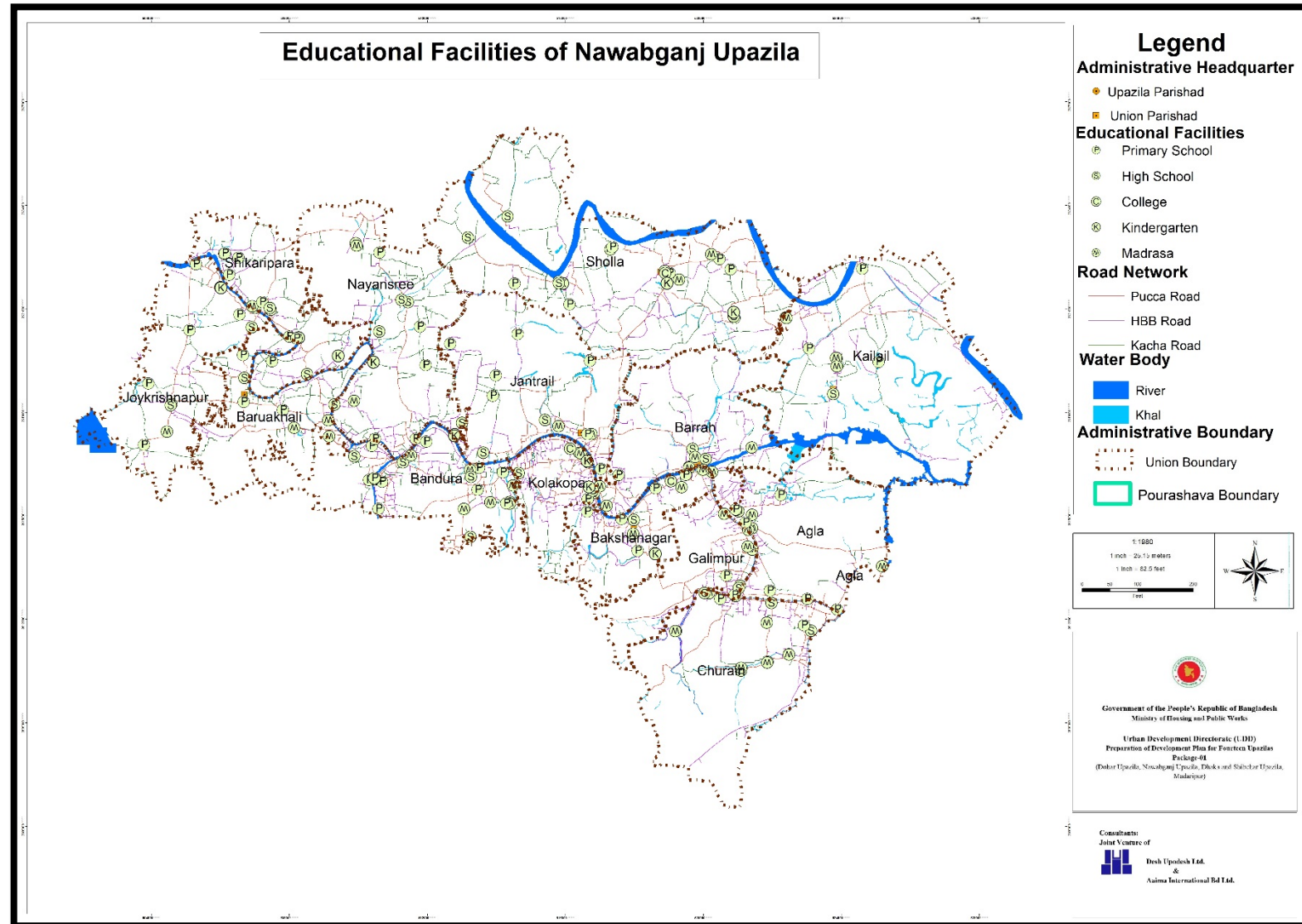
Structure Type	Number
Katcha	53541
Pucca	10392
Semi-pucca	14753
Total	78686

Structure Use	Number
Commercial Activities	3396
Community Facilities	23
Educational & Research	301
Government Services	30
Health Facilities	16
Recreational Facilities	24
Mixed Use	108
Monuments	7
Religious	503
Residential	72529
Under Construction	74
Unused	19
Total	77030
Multi-storied Structure	1656
Apparently Vulnerable	279
Total Structures	78686



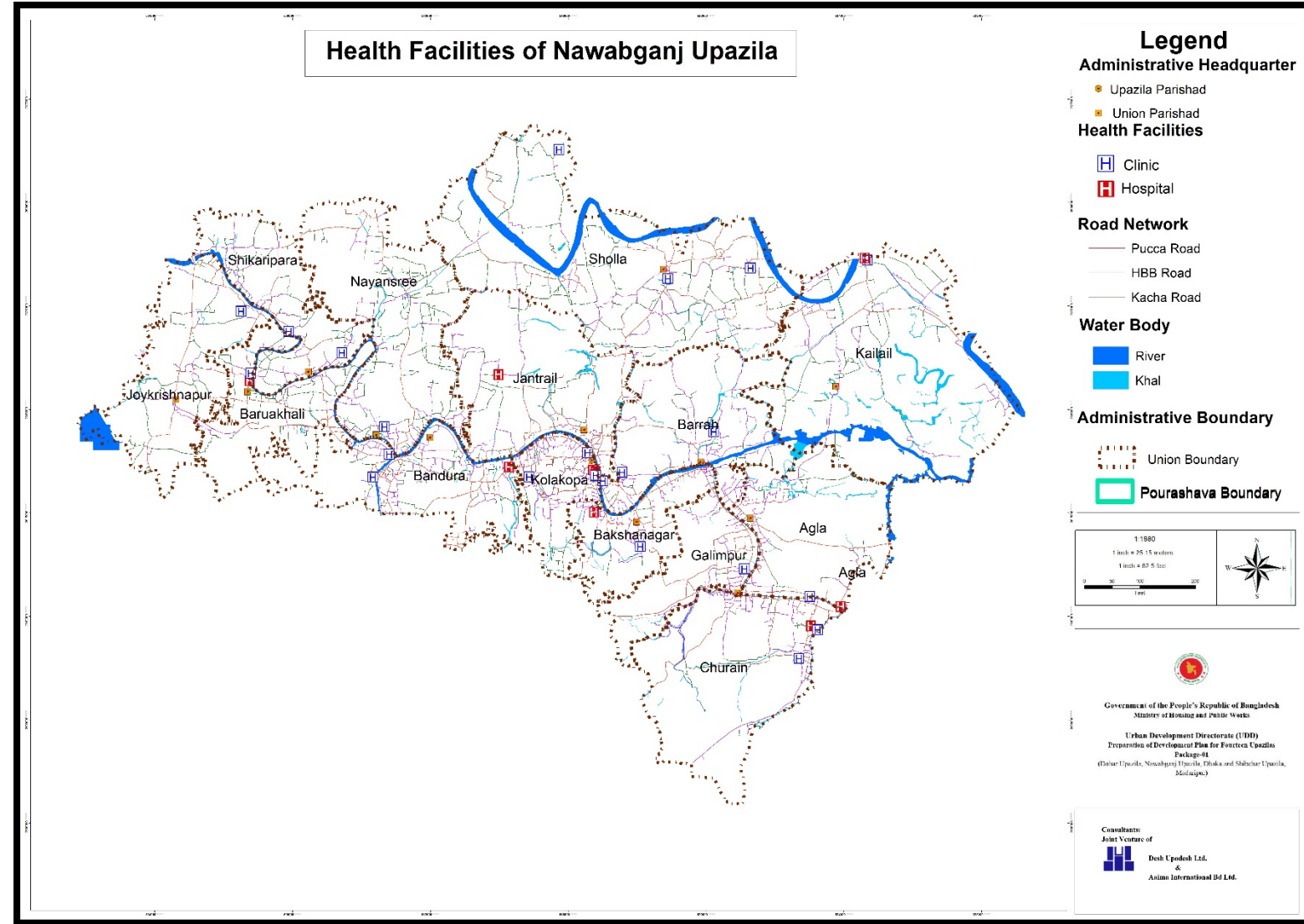
EXISTING EDUCATIONAL FACILITIES

Educational Facilities	No. of Facilities
Primary School	90
Kindergarten/Nursery School	14
High School	39
College	5
Madrasa	59



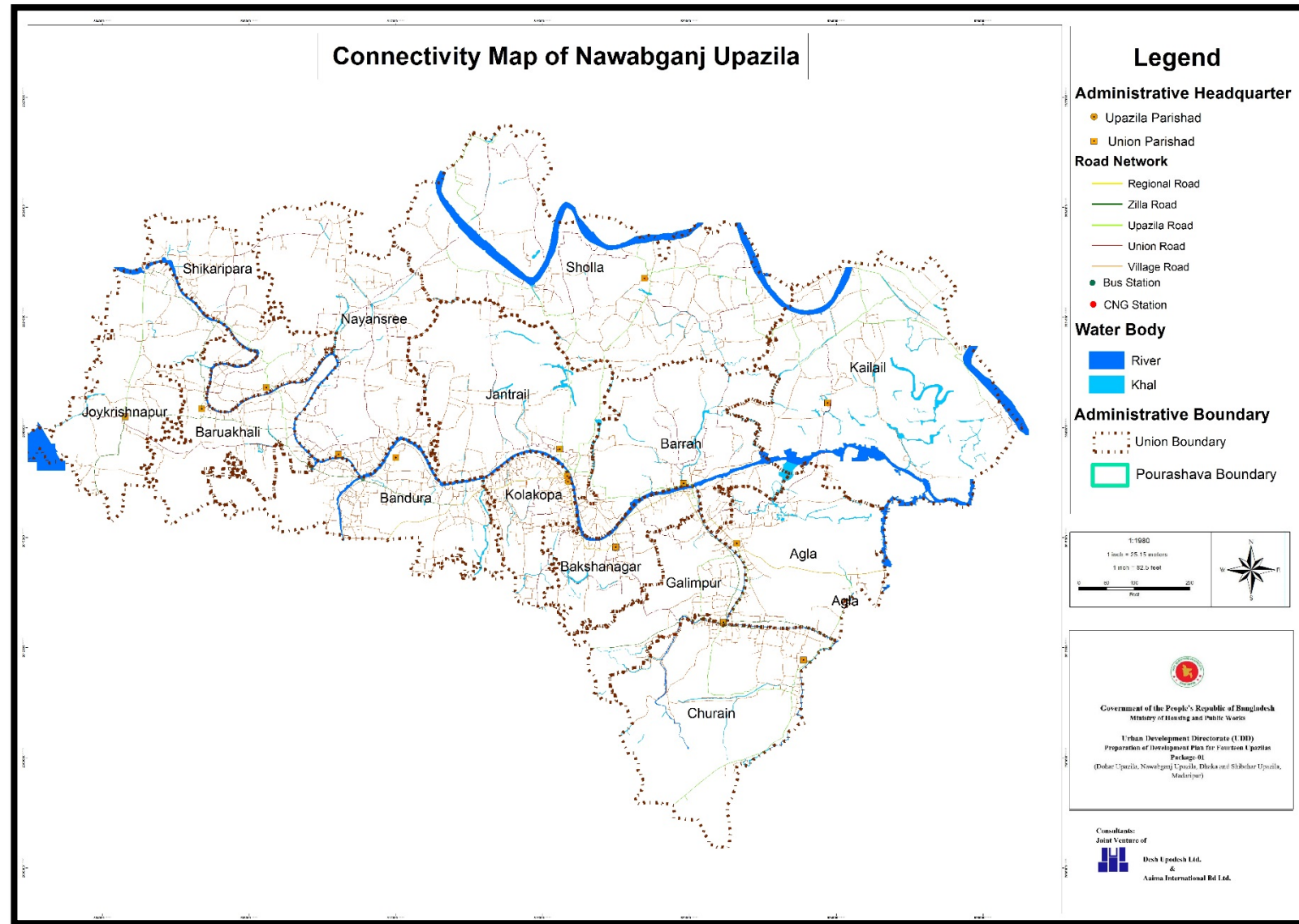
EXISTING HEALTH FACILITIES

Health Facilities	No. of Facilities
Clinic	23
Hospital	11



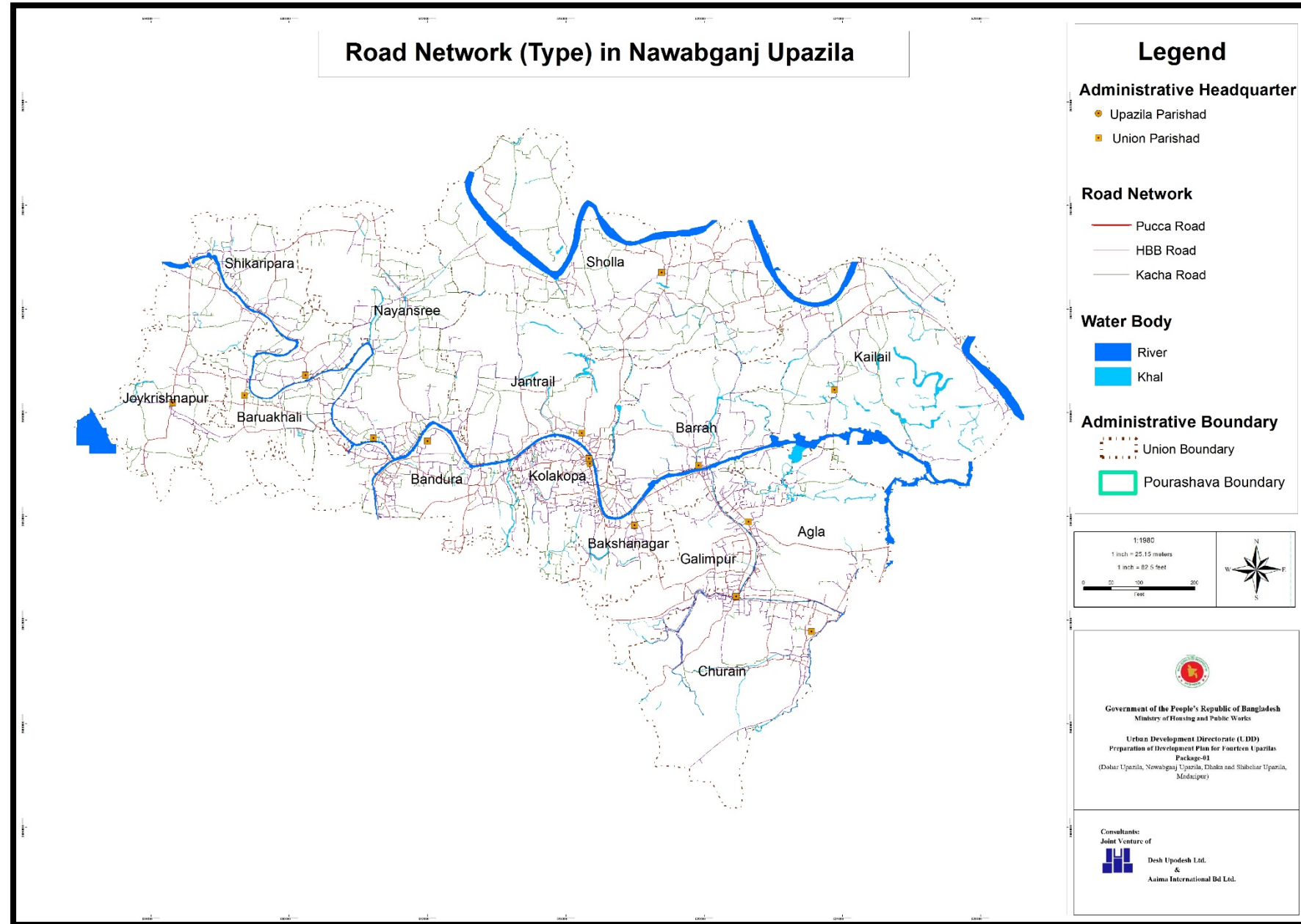
CONNECTIVITY MAP

Road Category	Length (Km)
Regional Road	17.85
Zilla Road	30.36
Upazila Road	74.09
Union Road	103.83
Village Road	587.8



ROAD TYPE MAP

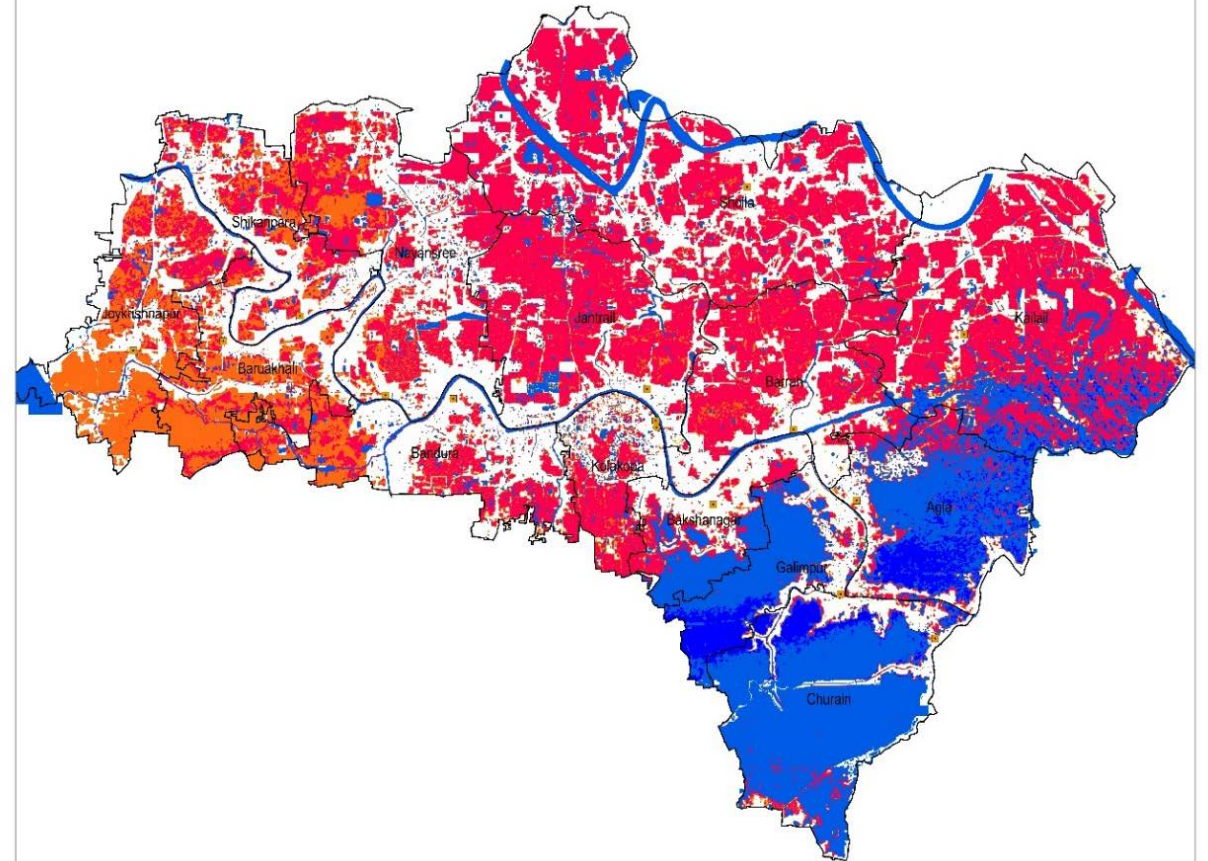
Road Type	Length (KM)
Kacha	269.7
Pucca	240.48
HBB	303.75
Total	813.93



FLOOD SCENERIO MAP

Different Flooding Scenario

Flooded Land Category	Water Height (m)	Area in acre	(%)	Remarks
1st Degree (F0)	<0.3	863.67	2.04	
2nd Degree (F1)	0.3-0.9	7170.5	16.97	
3rd Degree (F2)	0.9-1.8	21137.23	50.01	
4th Degree (F3)	1.8-3.6	11507.29	27.23	Sub Flood Flow Zone
5th Degree (F4)	>3.6	1584.19	3.75	Main Flood Flow Zone
Total		42262.88	100	



Legend

Flood Zone

F0 (Flood Free)	Union Boundary
F1 (Occasionally Flooded)	Pourashava Boundary
F2 (Occasionally Sub-flood Flow)	River/Khal
F3 (Sub Flood Flow Zone)	Administrative Headquarter
F4 (Main Flood Flow Zone)	Upazila Parishad
	Union Parishad

The Master Planning Organization (MPO) was a strategic planning wing of the Government of the People's Republic of Bangladesh. The MPO land type classification was introduced considering inundation criteria of lands during monsoon. Details of MPO land type classification along with flood flow zone considerations for this project are presented in the table.

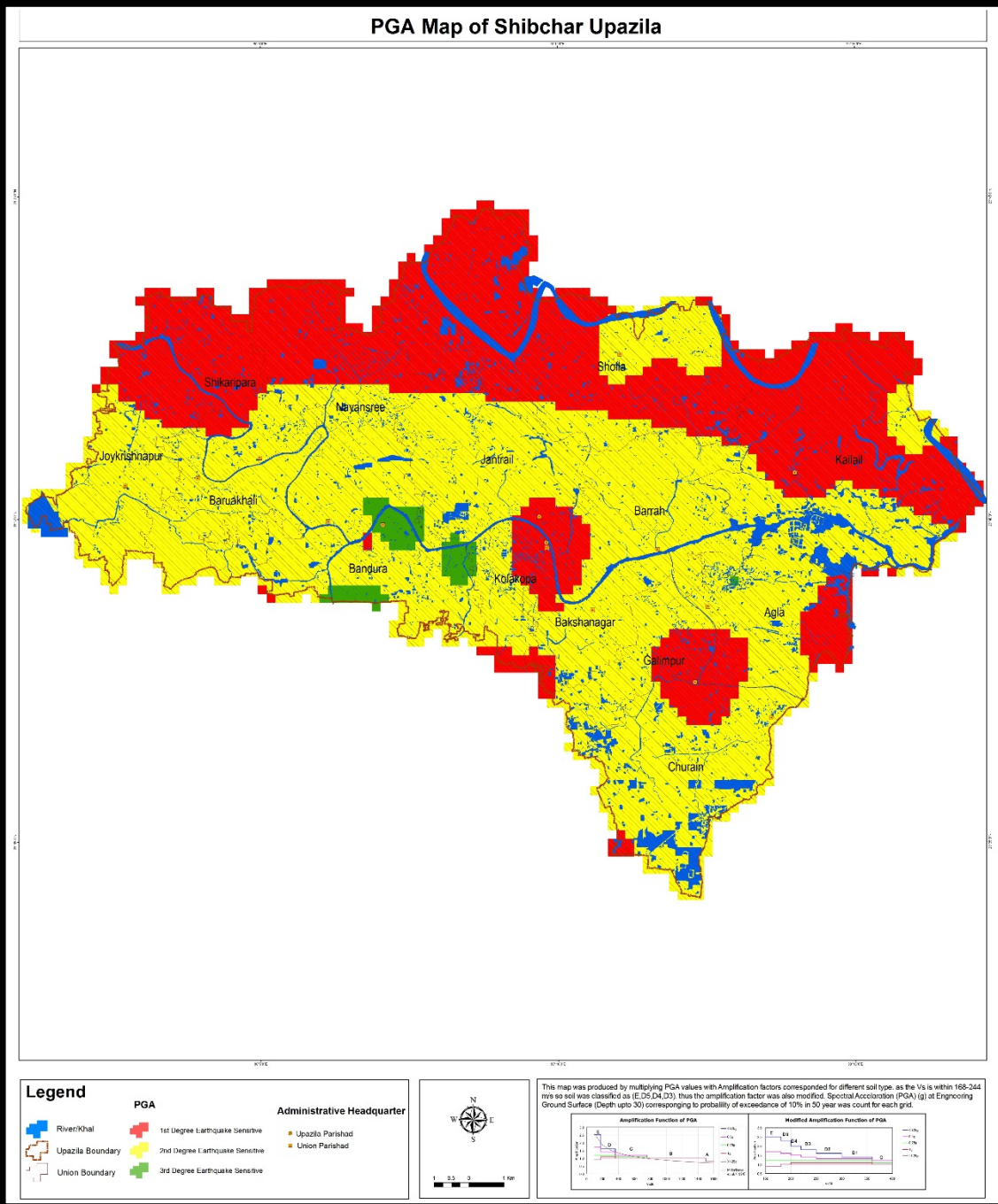
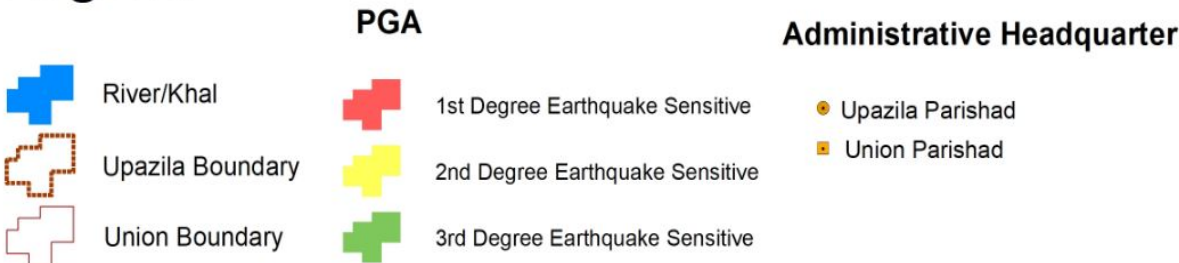
The land type was based on flood return probability of at least once in two years at a particular land or area.

MPO land types				Flood zones
Land type	Description	Flood depth (m)	Nature of flooding	Based on MPO
F ₀	High land	<0.30	Intermittent	Flood free
F ₁	Medium high land	0.30 – 0.90	Seasonal	Occasionally flooded
F ₂	Medium low land	0.90 – 1.80	Seasonal	Occasionally Sub- flood flow zone
F ₃	Low land	1.80 – 3.60	Seasonal	Sub- flood flow zone
F ₄	Low to very low land	>3.60(excluding waterway)	Seasonal / Perennial	Main flood flow zone

PGA MAP

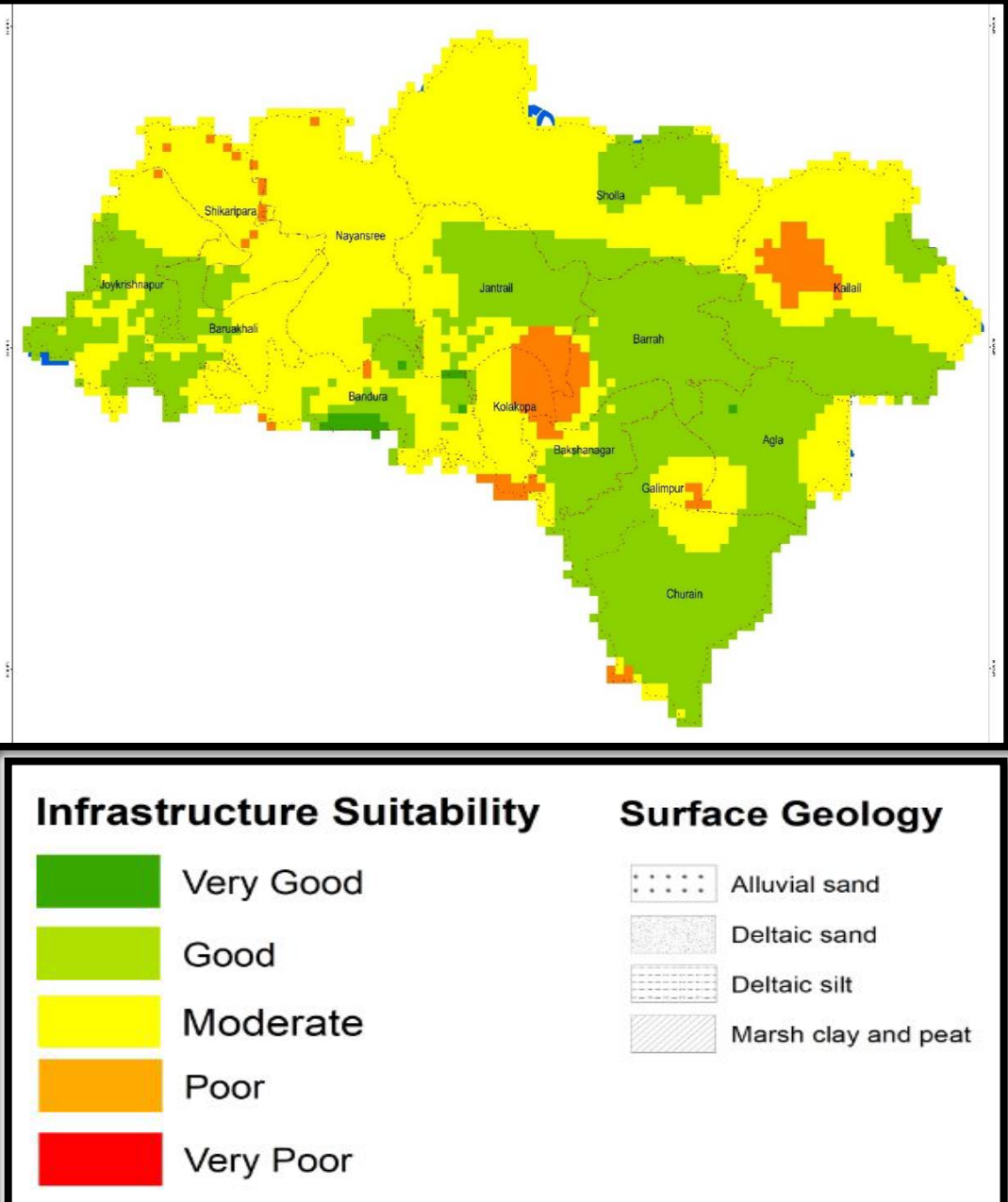
Earthquake Sensitivity	Area in acre	Percentage (%)
1st Degree Sensitive	24525.21	37.67
2nd Degree Sensitive	39567.75	60.78
3rd degree Sensitive	1003.87	1.54

Legend



GEOLOGICAL /INFRASTRUCTURE SUITABILITY

Infrastructure Suitability	Subsurface Sediments	Infrastructure foundation suitability	Suggested land use suitability
Very Good	Tipam Sandstone (Neogene), Dupi Tila Formation (Pleistocene and Pliocene),	4-6 story light infrastructure is suitable with a foundation depth of up to 2 m. Large and tall infrastructure requires pile foundation placed on Soil layer no 4.	Commercial area Residential area Industrial zone
Good	Dihing and Dupi Tila Formations undivided	4-6 story light infrastructure is suitable in Dupitila Formation. General foundation depth is within 5 m, at places higher Large and tall infrastructure requires pile foundation placed on layer no 4	Commercial area Residential area Industrial zone
Moderate	Dihing Formation (Pleistocene and Pliocene)	4-6 story light infrastructure requires on-site subsoil investigation and proper foundation design. Deep pile foundation is needed for large and tall infrastructure	Industrial zone Residential area Commercial area Agricultural Zone Park and Recreation
Poor	Girujan Clay (Pleistocene and Neogene)	Detail subsoil investigation and proper foundation design is required for all types of infrastructure, due to low bearing capacity with hazard potential.	Agricultural zone Flood flow zone Wetland Rural settlement Park and Recreation
Very Poor	Valley alluvium and colluviums. Mainly silty clay, with alternate layers of Organic clay and peat. Thickness is more than 10 m. In low floodplain areas less organic layers can be expected.	Detail subsoil investigation for deep pile foundation is essential, due to very low bearing capacity and high hazard potential. Shallow foundation is not preferred.	Agricultural zone Flood flow zone Wetland Rural settlement Park and Recreation

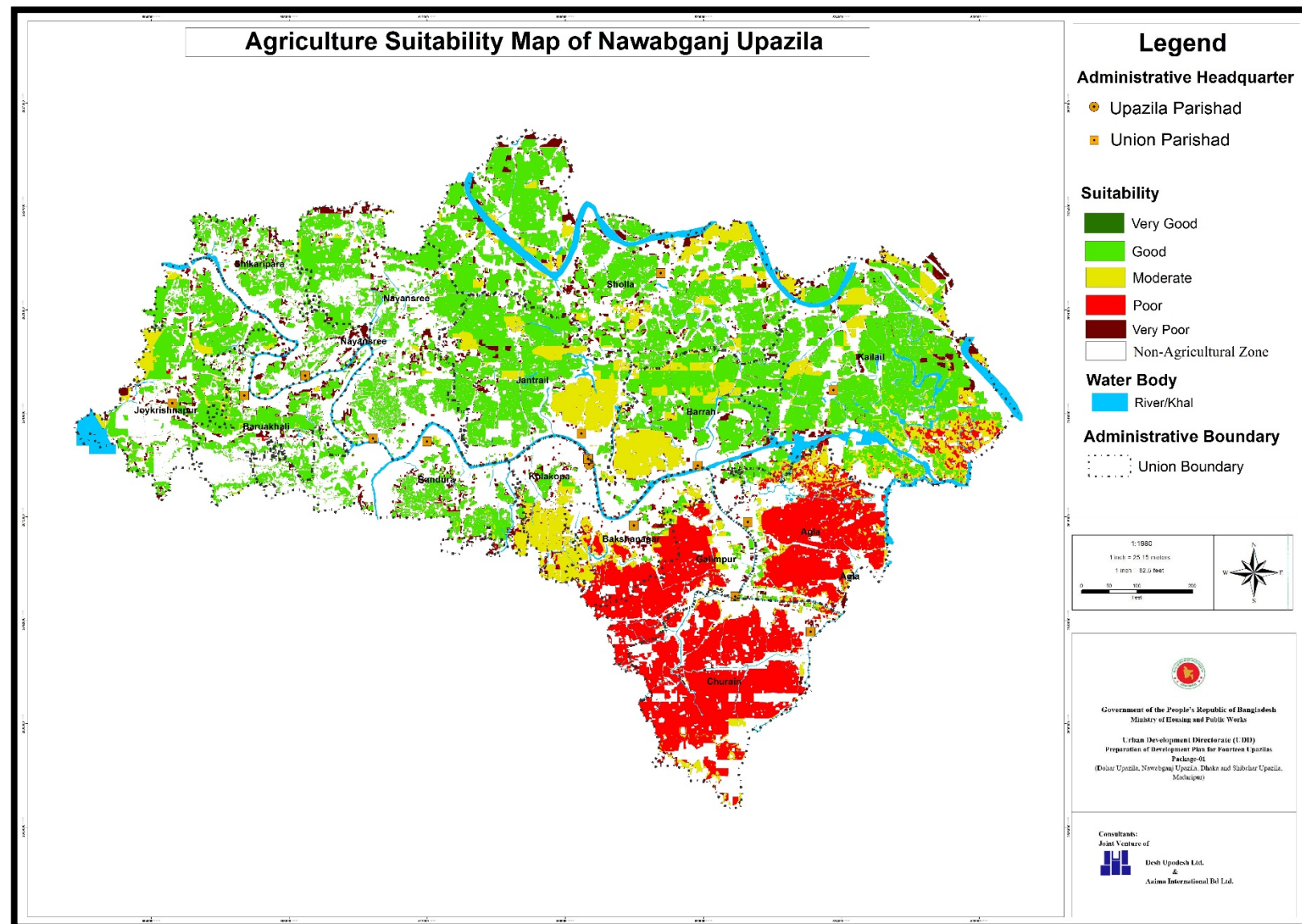


SUITABILITY MAPS

SUITABLE AREA FOR AGRICULTURE

Suitability	Area(Acre)	Percentage(%)
Very Good	3582.47	9.38
Good	19447.8	50.94
Moderate	5594.16	14.65
Poor	9549.95	25.02

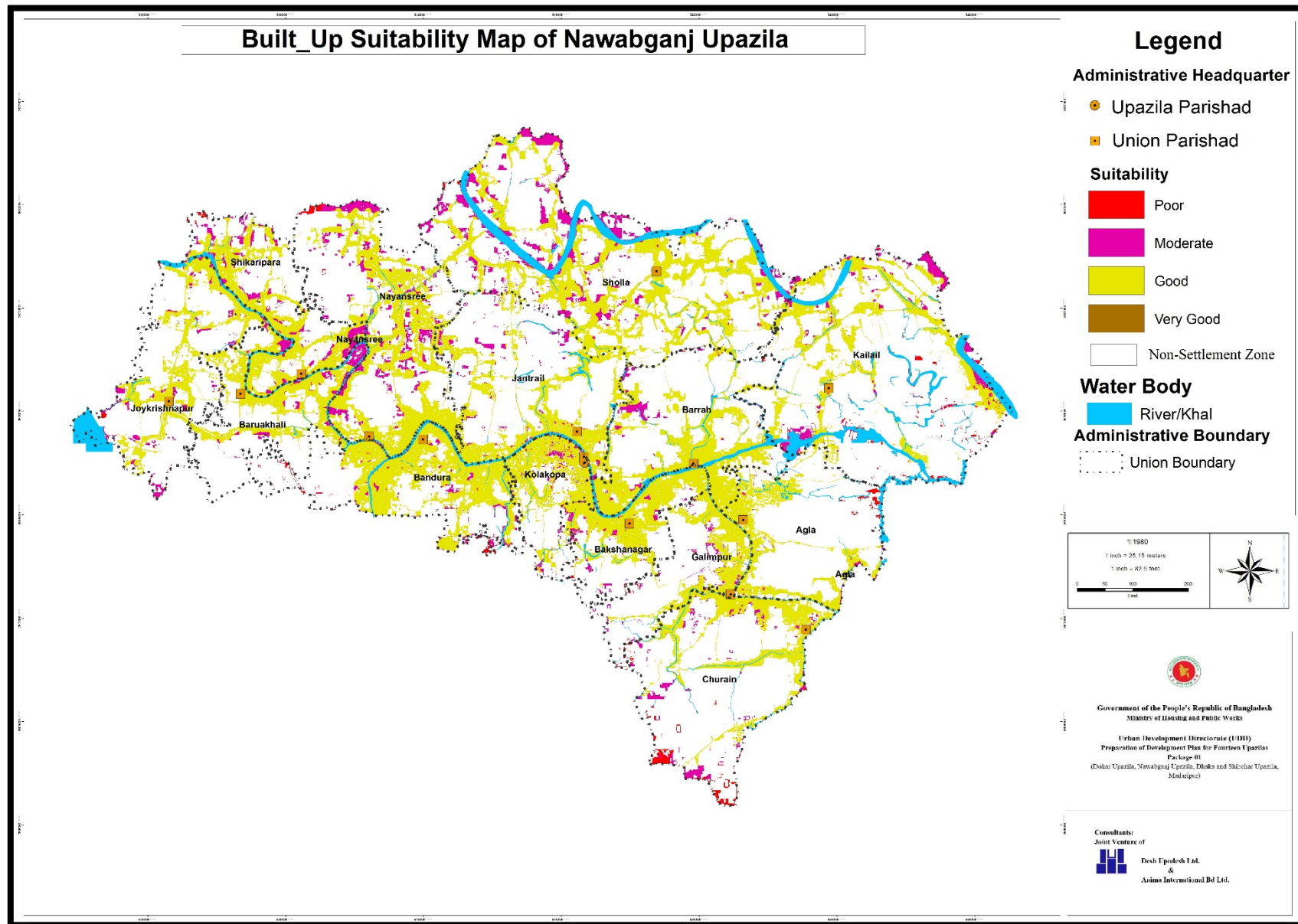
Source: Prepared by Consultant Team Based on Field Survey, 2017



LAND SUITABILITY FOR HUMAN SETTLEMENT

Suitability	Area(Acres)	Percentage
Very Good	59.84	0.32
Good	15911.98	84.92
Moderate	2459.40	13.12
Poor	307.37	1.64

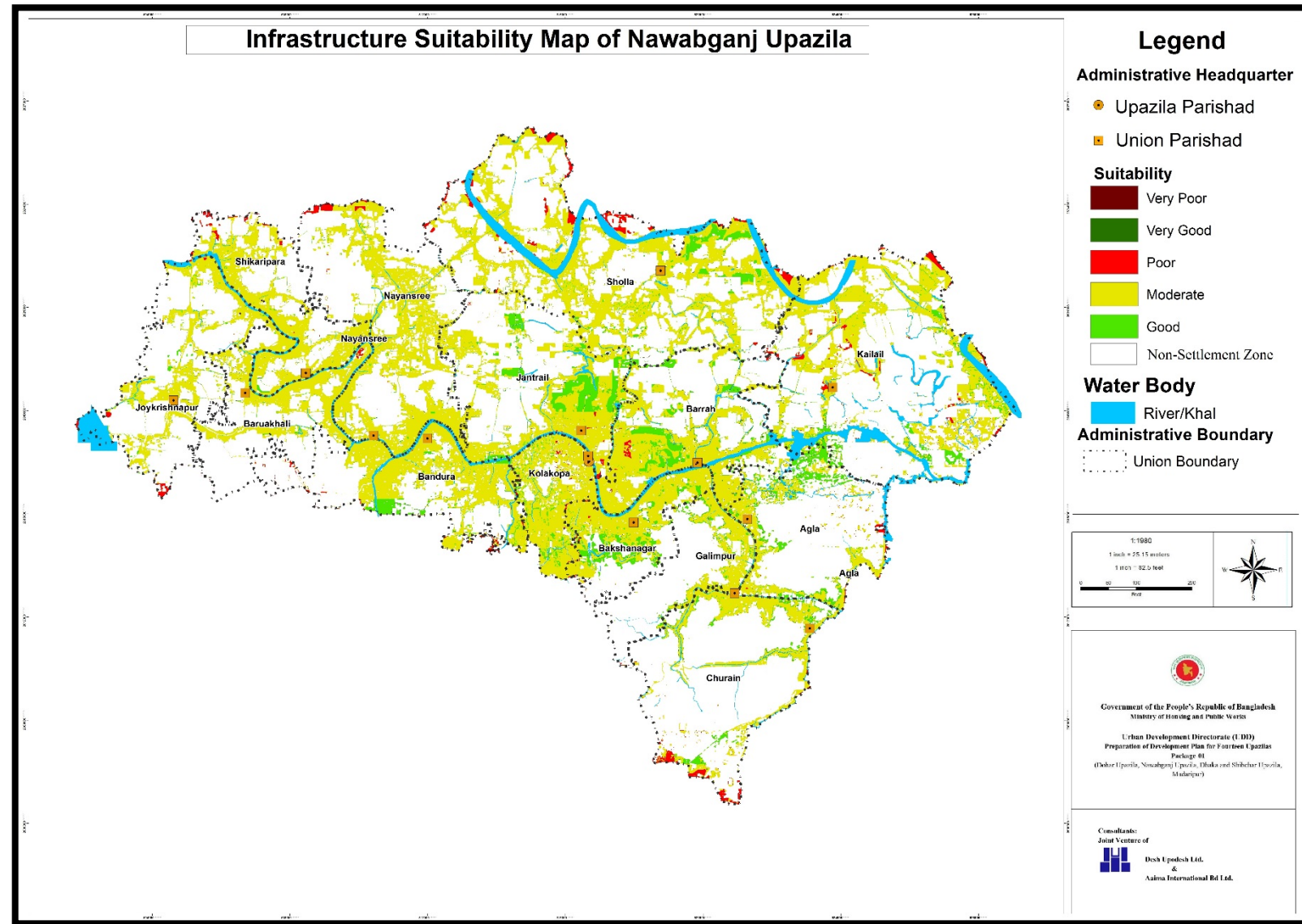
Source: Prepared by Consultant Team Based on Field Survey, 2017



SUITABLE AREA FOR INFRASTRUCTURE

Suitability	Areas(Acres)	Percentage (%)
Very Good	128.95	0.58
Good	2541.54	11.35
Moderate	19064.94	85.13
Poor	659.15	2.94

Source: Prepared by Consultant Team Based on Field Survey, 2017



PRA FINDINGS OF NAWABGANJ UPAZILA

Sl	Major Problems	Affected Unions	No
1	Problem of Transport and Communication	Barrah, Sholla, Bandura, Galimpur, Kailail, Joykrishnapur, Bakshanagar, Nayansree, Shikaripara, Kolakopa, Baruakhali, Jantrail, Agla, Churain	14
2	No Deep Tube Well for Safe Water Supply	Barrah, Sholla, Bandura, Galimpur, Kailail, Joykrishnapur, Bakshanagar, Shikaripara, Baruakhali, Jantrail, Agla, Churain	12
3	Sanitation Problem	Barrah, Sholla, Bandura, Joykrishnapur, Shikaripara, Baruakhali, Jantrail, Churain	8
4	Small Number of Old And Widow Allowance.	Churain, Agla, Kolakopa	3
5	Problem of Education Facility and Quality Education	Galimpur, Baruakhali, Jantrail	3

PRA FINDINGS OF NAWABGANJ UPAZILA

6	Health Care Facility Not Available.	Agla, Shikaripara, Baruakhali, Kailail, Nayansree, Bandura	6
7	Canal Siltation.	Jantrail	1
8	Absence of Water Line	Churain	1
9	Waterlogging Problem	Galimpur, Sholla, Bandura, Kolakopa, Bakshanagar	5
10	Repairing of Mosque, Madrasa, Mandir And Graveyard.	Agla, Nayansree, Kailail	3
11	Drug Abuse Problem	Kolakopa, Bakshanagar	2
12	Problem of River Erosion	Kailail	1
13	Absence Of Shelter for Poor and Landless.	Bakshanagar	1
14	Maintenance and Repairing of Hat-Bazar	Barrah	1
15	Absence of UP Complex	Galimpur	1
16	Absence of Sluice Gate In Vadrpara Beribad.	Shikaripara	1

PLANNING STANDARD

Education Facilities				
Urban Area (Kolakopa Union): Projected Population: 46399 (2028)				
Use/Facility	Standard Provision(unit)	Existing (Unit)	Required (Unit)	Additional
Primary School	2.00 acres/5000 population	2	9	7
High School	5.00 acres/ 20,000 population	3	2	None
College	10.00 acres/30,000 population	1	2	1
Vocational Training Centre	5.00 acre/ Upazila	None	1	1

PLANNING STANDARD

Education Facilities				
Rural Area Projected Population : 404186 (2038)				
Use/Facility	Standard Provision(unit)	Existing (Unit)	Required (Unit)	Additional
Primary School	2.00 acres/5000 population	88	81	None
Secondary/High School	5.00 acres/ 20,000 population	36	20	None
College	10.00 acres/30,000 population	4	13	9

Education Facilities				
Rural Area Projected Population : 404186 (2038)				
Use/Facility	Standard Provision(unit)	Existing (Unit)	Required (Unit)	Additional
Primary School	2.00 acres/5000 population	88	81	None
Secondary/High School	5.00 acres/ 20,000 population	36	20	None
College	10.00 acres/30,000 population	4	13	9/90 acres

PLANNING STANDARD

Recreation Open Space			
Urban Area (Kolakopa Union): Projected Population: 46399 (2028)			
Facility	Recommended Standard	Requirement	Remark
Play field	3.00 acres/20,000 population	2	There is no play field for public use. Most fields are attached to education facilities for their own use.
Park	10.00 acre /40000 population	1	

Recreation Open Space			
Rural Area Projected Population : 404186 (2038)			
Facility	Recommended Standard	Requirement	Remarks
Play field	3.00 acres/20,000 population	20	There is no play field for public use. Most fields are attached to education facilities for their own use.
Park	10.00 acre /40000 population	10	

PLANNING STANDARD

Community, Social and Administrative Facilities			
Urban Area (Kolakopa Union): Projected Population: 46399 (2028)			
Facility	Recommended Standard	Requirement	Remarks
Central Graveyard, and Cemetery	10.00 acre/One for Urban Area	1	
Shwashan	3.00 acres/ Urban Area	1	
Cemetery	2.00 acres/ Urban Area	1	

Social, Administrative and Institutional Facilities with Lump sum Land allocation			
Urban Area (Kolakopa Union): Projected Population: 46399 (2028)			
Facility	Allotted Land (acres)	Required	Remark
Amphitheatre	1.50 acres	1	In Urban area
Amusement park	20.00 acres	1	In Urban area
Central mosque	0.50 acre	1	In Urban area
Cold storage	3.00 acres	1	In Urban area
Common Examination Hall	.5 acre	1	In Urban area
Community Center	.50 acre	1	In Urban area
Community clinic	.50 acre	1	In Urban area
Food Godown	3.00 acres	1	In Urban area
Hospital with ICU and CCU facility.	20.00 acres	1	In Urban area
ICT Park	2.50 acres	1	In Urban area
Jail	15.00 acres	1	In Urban area
Low cost housing of poor destitute site and service project	100 acres	1	In Urban area
Shilpokola Academy	.50 acre	1	In Urban area
Slaughter House	0.30 acre	1	In Urban area
Sludge treatment plant- 1.5 acre- Practical action design, cost tk.3 crore	1.50 acres	1	In Urban area
Wholesale Market	2 acres/50,000 population	1	In Urban area
Retail Market	1 acre/30,000 population	2	In Urban area
Youth Center	.20 acre	1	In Urban area

PLANNING STANDARD

Social, Administrative and Institutional Facilities with Lump sum Land allocation			
Rural Area Projected Population : 404186 (2038)			
Facility	Allotted Land (acres)	Required	Remark
Community clinic	.50 acre	13	In each Union
Community Center	.50 acre	13	In each Union
Housing Estate	150 acre	1	In Rural Area
Fisheries	10 acre	1	In Rural Area
Wholesale Market	2 acres/50,000 population	8	In Rural Area
Retail Market	1 acre/30,000 population	13	In Rural Area

Social, Administrative and Institutional Facilities with Lump sum Land allocation			
For entire Upazila			
Facility	Allotted Land (acres)	Required Unit	Remark
Botanical garden	50.00 acres	1	Suitable location in the upazila
Mini stadium	20.00 acres	1	Suitable location in the upazila
Industrial Estate	150.00 acres	1	Suitable location in the upazila
Tourism Site	40 acres	1	Suitable location in the upazila

Transportation	
Types of Facilities	Recommended Standard
Bus terminal	1.0 acre/50000 population
Truck terminal	0.50 acre/20,000 population

PLANNING STANDARD

Road Category	Existing Avg. Width (ft.)	Proposed Width (ft.)	Length (Km)
Regional Road	18	80	17.796394
Primary Road A	10	60	26.737513
Primary Road B	10	50	83.80765
Secondary Road	10	30	141.351971

PROPOSED FEATURES FOR UPAZILA

Sub-Regional Plan	Structure Plan
<ul style="list-style-type: none">➤ Industrial Zone➤ Bus terminal➤ Truck Terminal	<ul style="list-style-type: none">➤ Hospital with ICU and CCU Facility➤ Housing Estate➤ Solid Waste Disposal Site➤ Jail➤ Mini Stadium

PROPOSED FEATURES FOR UPAZILA

Urban Area Plan	
<ul style="list-style-type: none">➤ Amphitheatre➤ Amusement Park➤ Cemetery➤ Central Graveyard➤ Central Mosque➤ Cold Storage➤ College➤ Common Examination Hall➤ Community Center➤ Community Clinic➤ Food Godown	<ul style="list-style-type: none">➤ ICT Park➤ Low Cost Housing➤ Play Field➤ Primary School➤ Sawshan➤ Shilpokola Academy➤ Slaughter House➤ Sludge Treatment Plant➤ Vocational Training Center➤ Waste Transfer Station➤ Youth Center

PROPOSED FEATURES FOR UPAZILA

Rural Area Plan
<ul style="list-style-type: none">➤ Wholesale Market➤ Rural Sales and Service Center➤ College➤ Botanical Garden➤ Park➤ Playfield➤ Waste Transfer Station➤ Community Center➤ Community Clinic➤ Fisheries and fish processing center

- Wholesale Market
- Rural Sales and Service Center
- College
- Botanical Garden
- Park
- Playfield
- Waste Transfer Station
- Community Center
- Community Clinic
- Fisheries and fish processing center

PROPOSED FEATURES FOR UPAZILA

Strategic Proposal	Location	Area (acre)
Mini Stadium	Bakshanagar	20.79
Bus Terminal	Galimpur, Bakshanagar, Bandura	1
Truck Terminal	Churain, Kolakopa, Bandura	0.5
Housing Estate	Barrah, Jantrail	150
Industrial Zone	Bakshanagar	150
Hospital with ICU and CCU Facility	Kolakopa	18.96
Food Godown	Kolakopa	3
Cold Storage	Jantrail	3
Central Mosque	Kolakopa	0.5
Amusement Park	Kolakopa	20.28

PROPOSED FEATURES FOR UPAZILA

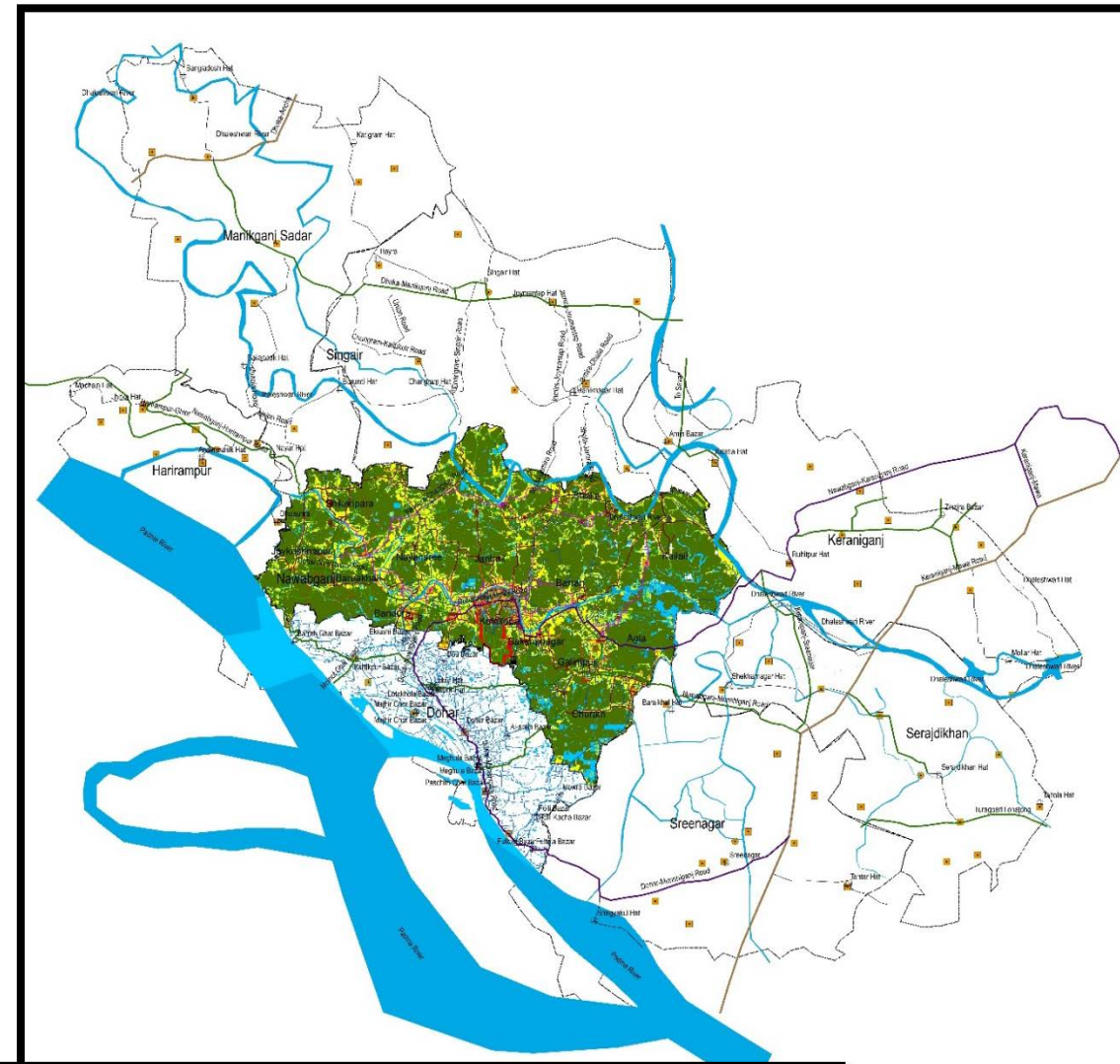
Common Examination Hall	Kolakopa	0.5
Fisheries and fish processing center	Agla	15.48
ICT Park and Amphitheatre	Kolakopa	4.19
Jail	Kolakopa	15
Low Cost Housing	Kolakopa	92.12
Shilpokola Academy	Kolakopa	0.5
Sludge Treatment Plant	Kolakopa, Jantrail	1.5
Slaughter House	Kolakopa	0.3
Vocational Training	Kolakopa	5
Youth Center	Kolakopa	0.2

SUBREGIONAL PLAN

SUB REGIONAL PLAN

Components of Sub-regional Plan

- ☐ Connectivity and Transportation Network
- ☐ Biodiversity and Nature Conservation
- ☐ Community Resilience through Disaster Management



SUB REGIONAL PLAN

Policies for Sub-regional Planning

Connectivity and Transportation Network

Policy 1: Prioritize inter- (Zila-Upazila/Upazila-Upazila) and intra- (Urban-Rural) regional connectivity.

Policy 2: Accelerate high standard road links through widening of primary and secondary and construction of new tertiary roads.

Biodiversity and Nature Conservation

Policy 1: Conserve natural/environmental resources like water bodies.

Policy 2: Execute land use planning for the enhancement of ecosystem and species diversity.

Community Resilience through Disaster Management

Policy 1: Identification of seismic hazard prone zones.

Policy 2: Identification of flood hazard prone zones and river erosion areas.

Policy 3: Provision and implementation of a risk sensitive land use planning.

LOCATION OF BUS TERMINAL

Strategic Proposal	Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Bus Terminal	Galimpur	Galimpur	170	1	767-770	1
Bus Terminal	Bakshanagar	Dighirpar	164	1	931	1
Bus Terminal	Bandura	Hasnabad	94	1	276, 397, 399, 400-402	1
Bus Terminal	Bandura	Majhirkanda	155	0	1	1
		Mahabbatpour	96	2	1735-1737	

LOCATION OF TRUCK TERMINAL

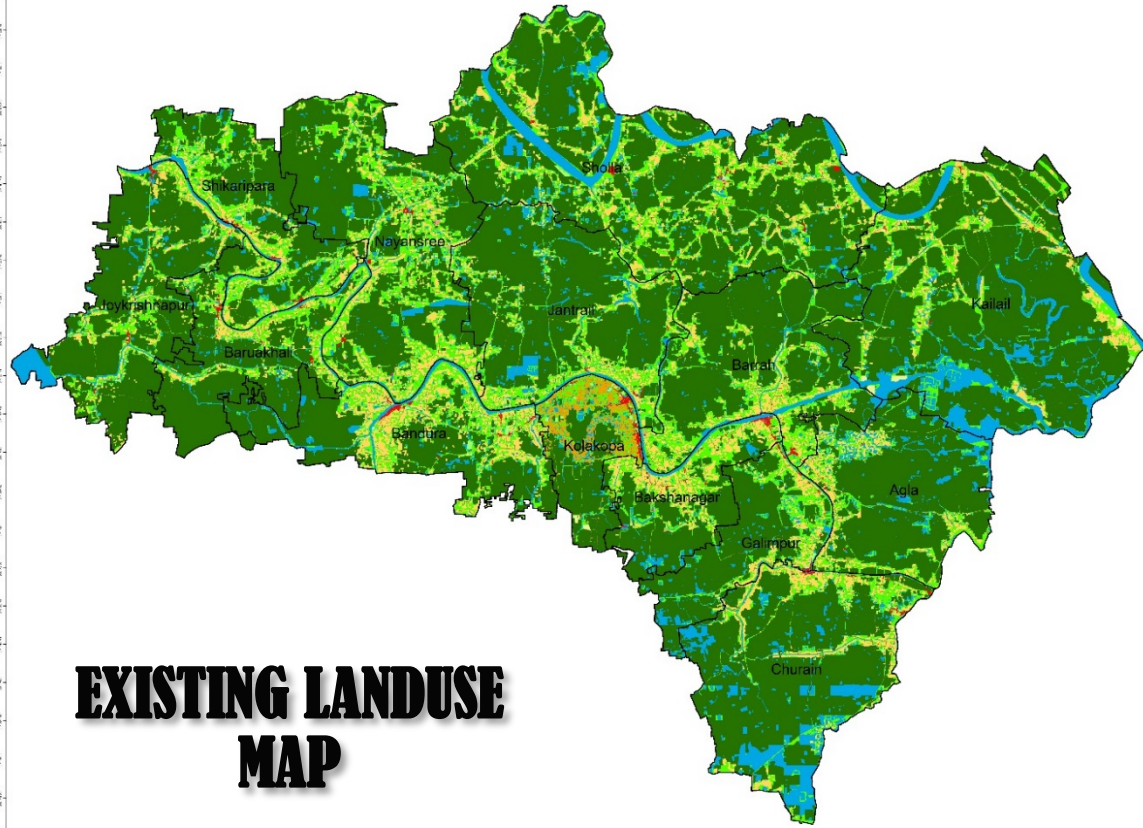
Strategic Proposal	Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Truck Terminal	Churain	Bara Gobindapur	171	1	407-415, 420-423, 428	0.5
Truck Terminal	Kolakopa	Kalakopa	148	2	621-622, 688-690	0.5
Truck Terminal	Bandura	Hasnabad	94	1	433, 454-459, 528-529	0.5
Truck Terminal	Bandura	Mahabbatpou r	96	2	1758-1760, 1769-1770	0.5

LOCATION OF INDUSTRIAL ESTATE

Strategic Proposal	Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Industrial Estate	Bakshanagar	Bara Bakshanagar	165	1	1-31	150
		Dighirpar	164	1	279-347, 354-355, 1194-1199, 1204-1215, 1223-1241, 1261-1279, 1281-1325, 1337-1363	
	Kolakopa	Bara Jafarpur	163	2	1727-1735, 1778-1788, 1791-1812	

STRUCTURE PLAN

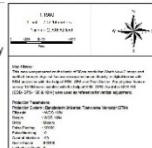
Existing Land Use of Nawabganj Upazila



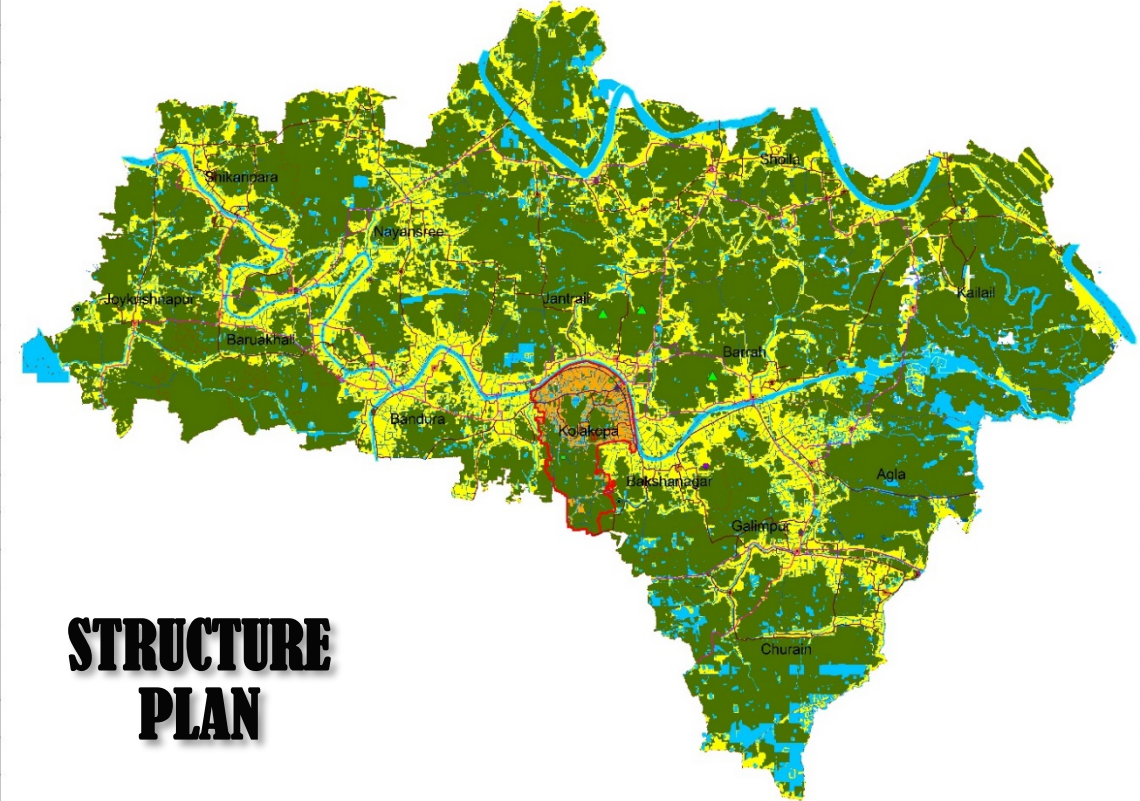
EXISTING LANDUSE MAP

LEGEND

Union Boundary	Government Services	Non Government Services	Transportation Facilities	Pourashava Boundary
Agricultural Zone	Educational and Research Zone	Open Space	Urban Residential Zone	
Brick Field	Community Facilities	Recreational Facilities	Utility Services	
Char Area	Health Services	Religious Area	Vegetation Zone	
Commercial Zone	Mixed Use Zone	Rural Settlement	Water Bodies	



Structure Plan of Nawabganj Upazila



STRUCTURE PLAN

Preparation of Development Plan for fourteen Upazilas (Nawabganj Upazila)

LEGEND

Strategic Zone

Agriculture Protection	Proposed Features
Urban Settlement	Water Body
Restricted Special	Water Protection Zone
Rural Settlement	Circulation Network
Sub Flood Flow	
Main Flood Flow	

Urban Center
Growth Center

Administrative Headquarter
Upazila Parishad
Union Parishad
Proposed Road
Regional Road, 6 Lane
Primary Road A, 4 Lane
Primary Road B, 4 Lane
Secondary Road, 2 Lane

Proposed Features
Hospital with ICU and CCU Facility
Housing Estate
Jail
Mini Stadium
Solid Waste Disposal Site

Existing Features
Fire Service
Police Station
Post Office
Existing_Road

Administrative Boundary
Urban Area
Union Boundary



STRUCTURE PLAN

Strategic Zoning	Area(Acre)
Agriculture	38174.486312
Circulation Network	865.412793
Main Flood Flow Zone	1581.041115
Rural Settlement	17932.40551
Sub Flood Flow Zone	11484.143036
Urban Settlement	806.189554
Water Supply Protection Zone	874.442637
Water Body	7423.934869

LOCATION OF HOSPITAL

Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Kolakopa	Bara Jafarpur	163	1	211-218, 323, 325-338, 341-342, 361-419, 427-437, 442-443, 1034	18.96

LOCATION OF HOUSING ESTATE

Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Barrah	Bara Bahra	134	1	205-222, 224-239, 248-252, 254-257, 263-265, 269, 567, 572, 579	150
	Bara Bahra	134	2	801-809, 815-821, 865-871, 875-879, 881-898, 901-915, 919, 949-951, 1122, 1127, 1130, 1135-1146, 1149, 1159-1162, 1171-1176, 1184-1191, 1198, 1202-1204, 1208-1218, 1227-1231, 1234-1284, 1286-1328, 1388-1390, 1399-1400, 1488-1495, 1497-1501, 1505-1507, 1509-1524, 1527-1533, 1539-1547, 1674	
	Kahur	138	0	485- 489, 492-518, 521-523, 537	

LOCATION OF HOUSING ESTATE

Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Jantrail	Chandrakhola	102	2	769-770, 772-779, 785-789, 795-802, 808-812, 814-818, 823, 1134-1136, 1146-1153, 1160-1163, 1166-1206, 1277-1296, 1300-1309	150
	Jantrail	140	1	2-4, 6-75, 80-83, 87-189, 190, 200, 206-207, 209, 224-226, 228-260, 289-296, 301-307, 312-317, 319, 321, 793-794	

LOCATION OF HOUSING ESTATE

Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Jantrail	Chandrakhola	102	2	744-766	150
	Harishkul	101	1	981-1002, 1004-1008, 1078-1080, 1082-1097, 1113-1131	
	Harishkul	101	2	1711, 1743-1746, 1749, 1751-1752, 1757-1758, 1762-1764, 1769-1772, 1789-1798, 1802, 1817-1818, 1833-1836, 1843-1844, 1852-1854, 1858-1966, 1977-1978, 1994-2155, 2157-2162, 2170, 2230-2240, 2246, 2309-2357, 2360-2380, 2394-2398, 2401-2404, 2883	

LOCATION OF SOLID WASTE DISPOSAL SITE

Strategic Proposal	Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Solid Waste Disposal Site	Joykrishnapur	Raypur	29	0	12-17, 20-60, 123-158	10
Solid Waste Disposal Site	Bakshanagar	Dighirpar	164	1	253-257, 262-264, 267-273, 363-372, 376-377	10

LOCATION OF JAIL

Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Kolakopa	Madhabpur	161	1	560-600, 639, 664	15

LOCATION OF MINI STADIUM

Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Bakshanagar	Bara Bakshanagar	165	2	1318, 1320-1331, 1341-1378, 1381-1384, 1465-1467, 1469, 1474-1477, 1479-1496, 1501-1506, 1508, 1511-1514, 1520-1522	20.79

URBAN AREA PLAN

AND

RURAL AREA PLAN

PROPOSED IMPORTANT FEATURES FOR UPAZILA

Type	No	Location
Proposed Primary School	7	Kolakopa

Type	No	Location
Proposed College	1	Kolakopa Union
	1	Bandura Union
	2	Shikaripara Union
	1	Sholla Union

PROPOSED IMPORTANT FEATURES FOR UPAZILA

Type	No	Location
Proposed Wholesale Market	2	Kolakopa
	1	Galimpur
	1	Kailail
	2	Bakshanagar
	1	Barrah
	6	Sholla
	1	Bandura
	1	Nayansree
	1	Shikaripara
	1	Joykrishnapur
	1	Jantrail

PROPOSED IMPORTANT FEATURES FOR UPAZILA

Type	No	Location
Proposed Community Clinic	2	Kolakopa
	1	Agla
	1	Barrah
	1	Kailail
	2	Sholla
	1	Bandura
	1	Baruakhali
	2	Nayansree

PROPOSED IMPORTANT FEATURES FOR UPAZILA

Type	No	Location
Proposed Community Center	1	Kolakopa
	1	Agla
	1	Churain
	2	Bakshanagar
	1	Bandura
	1	Shikaripara
	1	Joykrishnapur
	1	Kailail
	2	Sholla

PROPOSED IMPORTANT FEATURES FOR UPAZILA

Type	No	Location
Proposed Rural Sales and Service Center (RSSC)	1	Galimpur
	2	Bakshanagar
	1	Barrah
	5	Sholla
	2	Nayansree
	1	Baruakhali
	2	Joykrishnapur

PROPOSED IMPORTANT FEATURES FOR UPAZILA

Type	No	Location
Proposed Waste Transfer Station	1	Kolakopa
	2	Bakshanagar
	1	Galimpur
	1	Agla
	1	Churain
	1	Barrah
	1	Kailail
	1	Sholla
	1	Bandura
	1	Nayansree
	1	Baruakhali
	1	Shikaripara

LOCATION OF AMUSEMENT PARK

Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Kolakopa	Kalakopa	148	2	721-722, 724-732, 736-742, 748, 751, 860, 864-865, 871-895, 1136-1142, 1144-1153	20
	Madhabpur	161	1	43-45, 64-68	

LOCATION OF FOOD GODOWN

Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Kolakopa	Rajarampur	150	0	121, 214	3
	Samshabad	149	0	8-14, 19-24, 50-59, 61	
Kolakopa	Kasimpur	146	0	192-196, 208-214, 218-221	3

LOCATION OF COLD STORAGE

Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Jantrail	Jantrail	140	2	2624-2627, 2631-2636, 2639-2640, 2680-2682	3

LOCATION OF CENTRAL MOSQUE

Strategic Proposal	Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Central Mosque	Kolakopa	Kasimpur	146	0	489, 491	0.5
Central Mosque	Kolakopa	Bara Jafarpur	163	1	262-263	0.5

LOCATION OF COMMON EXAMINATION HALL

Strategic Proposal	Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Common Exam Hall	Kolakopa	Bara Jafarpur	163	1	81-82	0.5
Common Exam Hall	Kolakopa	Kolakopa	148	1	333-334, 408-416, 419	0.5
Common Exam Hall	Kolakopa	Pir Mamudia	147	0	71	0.5

LOCATION OF FISHERIES AND FISH PROCESSING CENTER

Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Agla	Agla	122	1	217-220, 233-257, 270-279	15

LOCATION OF ICT PARK AND AMPHITHEATRE

Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Kolakopa	Kalakopa	148	1	192-194, 240, 242, 283-298, 434	4.19

LOCATION OF LOW COST HOUSING

Strategic Proposal	Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Low Cost Housing	Kolakopagar	Bara Jafarpur	163	1	723-726, 728-729, 743, 750-768, 771, 773-775, 779-860, 862-897, 900-969, 972-1021, 1023-1028	92
		Bara Jafarpur	163	2	1401-1416, 1503-1504	
		Madhabpur	161	2	1074, 1078-1082, 1090-1101	
	Bakshana gar	Dighirpar	164	1	1-5, 7, 14-18, 36, 38-58, 95-96	
		Tuknikanda	144	0	3-24	

LOCATION OF SHILPOKOLA ACADEMY

Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Kolakopa	Kasimpur	146	0	126-127, 131-132	0.5

LOCATION OF SLUDGE TREATMENT PLANT

Strategic Proposal	Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Sludge Treatment Plant	Kolakopa	Kalakopa	148	1	23, 25-26, 28	1.5
		Kalakopa	148	2	501-506, 508	
	Bandura	Hazratpur	153	0	31-35	
		Sadapur	151	0	204-211	
Sludge Treatment Plant	Jantrail	Jantrail	140	2	2758-2761	1.5

LOCATION OF SLAUGHTER HOUSE

Strategic Proposal	Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Slaughter House	Kolakopa	Rajarampur	150	0	154, 163-164	0.3
		Samshabad	149	0	28-29	
Slaughter House	Kolakopa	Rajarampur	150	0	159-162, 166, 177, 179-180	0.3
Slaughter House	Kolakopa	Samshabad	149	0	60, 69-71	0.3
Slaughter House	Kolakopa	Kasimpur	146	0	415	0.3

LOCATION OF VOCATIONAL TRAINING CENTER

Strategic Proposal	Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Vocational Training Center	Kolakopa	Kalakopa	148	1	339-340, 342-345, 360-364, 367-371, 373-376	5
		Kalakopa	148	2	791-796, 821	
		Rajarampur	150	0	66, 70-71, 75-76	
Vocational Training Center	Kolakopa	Bara Jafarpur	163	1	688-696, 698-700, 704-721	5

LOCATION OF VOCATIONAL TRAINING CENTER

Strategic Proposal	Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Vocational Training Center	Churain	Churain	175	0	1217, 1219-1220, 1222-1224, 1231-1243, 1261-1262, 1265-1266, 1280-1287, 1292	5

LOCATION OF YOUTH CENTER

Location	Mouza Name	Mouza No	Sheet no	Plot No	Area (acre)
Kolakopa	Kalakopa	148	1	420-423	0.2

LOCATION OF HOSPITAL WITH 10 BED FACILITY

Name	Location	Mouza Name	Mouza no	Sheet no	Plot Nos
Hospital with 10 Bed Facility	Kailail	Kaliail	119	3	4124-4126, 4138, 4140-4143, 4145-4146, 4154-4156

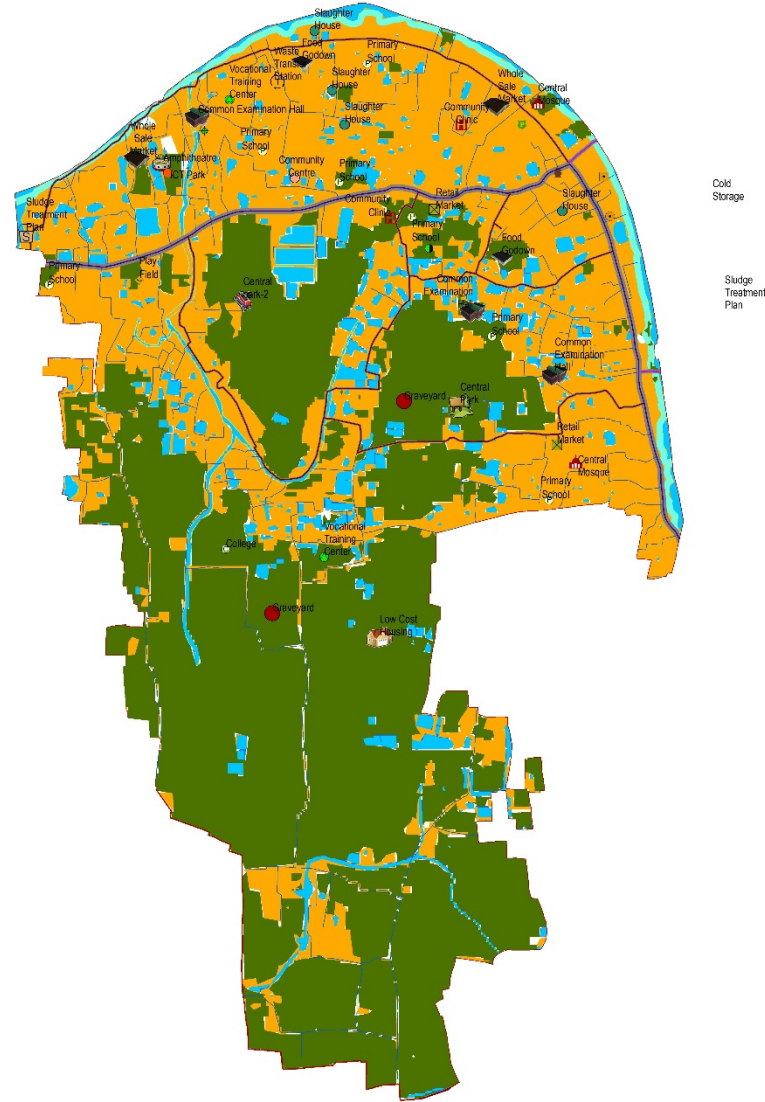
LOCATION OF BOTANICAL GARDEN

Name	Location	Mouza Name	Mouza no	Sheet no	Plot Nos
Botanical Garden	Barrah	Algir Char	136	0	1-5, 7-29
		Kahur	138	0	369-371, 379-395, 400-405
		Subharia	135	0	1-20, 56, 58- 59, 70-81, 90-91, 94-96
		Urarchar	137	0	6-24, 51-52

URBAN AREA PLAN

URBAN AREA PLAN

Urban Area Plan of Urban Area of Nawabganj Upazila



Legend

Administrative Headquarter

- Upazila Parishad
- Pourashava

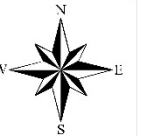
Strategic Zone

- Agriculture Protection
- Urban Settlement
- Rural Settlement
- Sub Flood Flow
- Main Flood Flow
- Water Body
- Water Protection Zone
- Circulation Network

Administrative Boundary

- Pourashava Boundary
- Ward Boundary

1:1980
1 inch = 154.79 meters
1 inch = 507.85 feet



Government of the People's Republic of Bangladesh
Ministry of Housing and Public Works

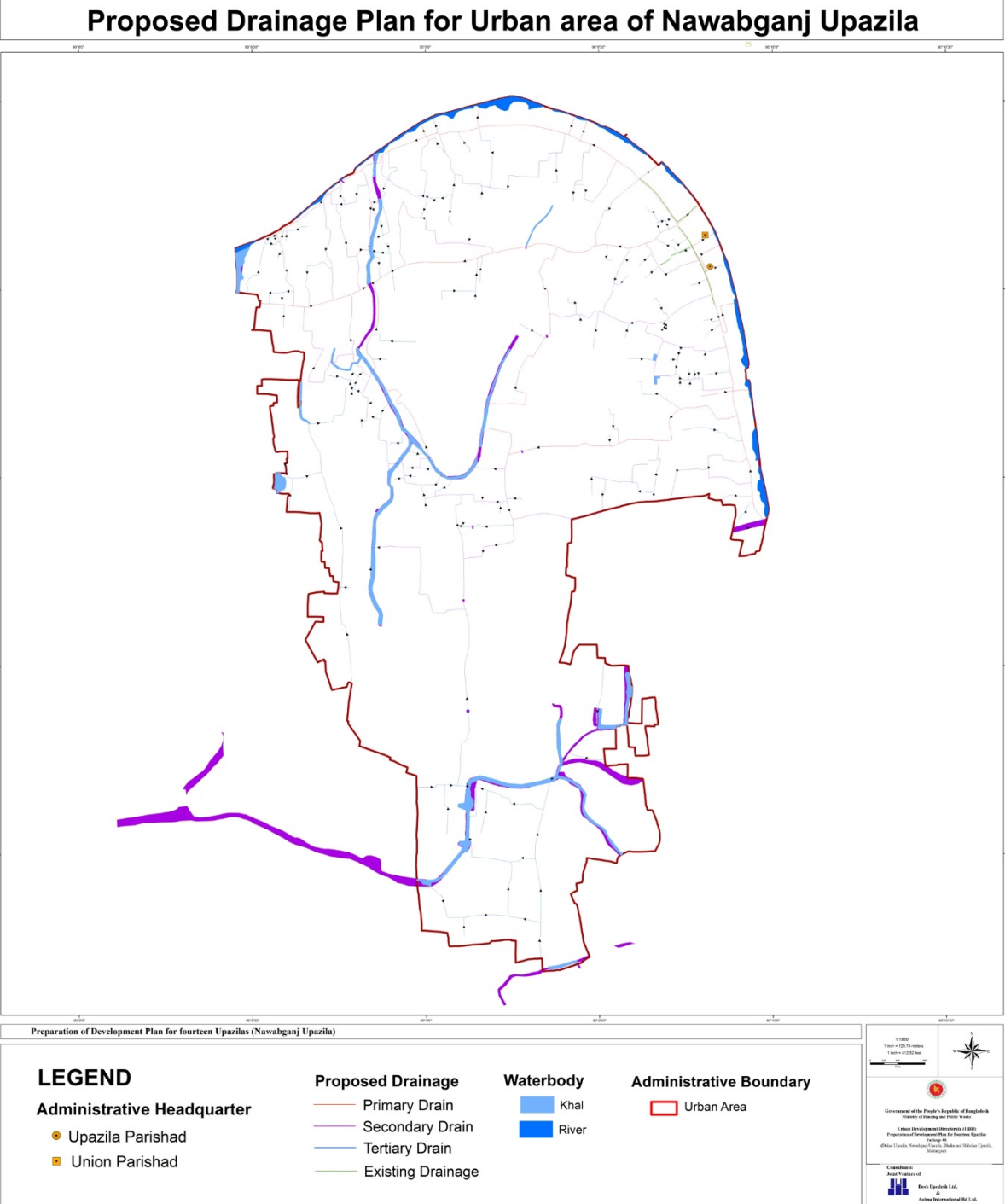
Urban Development Directorate (UDD)
Preparation of Development Plan for Fourteen Upazilas
Package 01
(Dohar Upazila, Nawabganj Upazila, Dinka and Shishchar Upazila, Madaripur)

Consultants:
Joint Venture of



Desh Upodesh Ltd.
&
Azima International Bd Ltd.

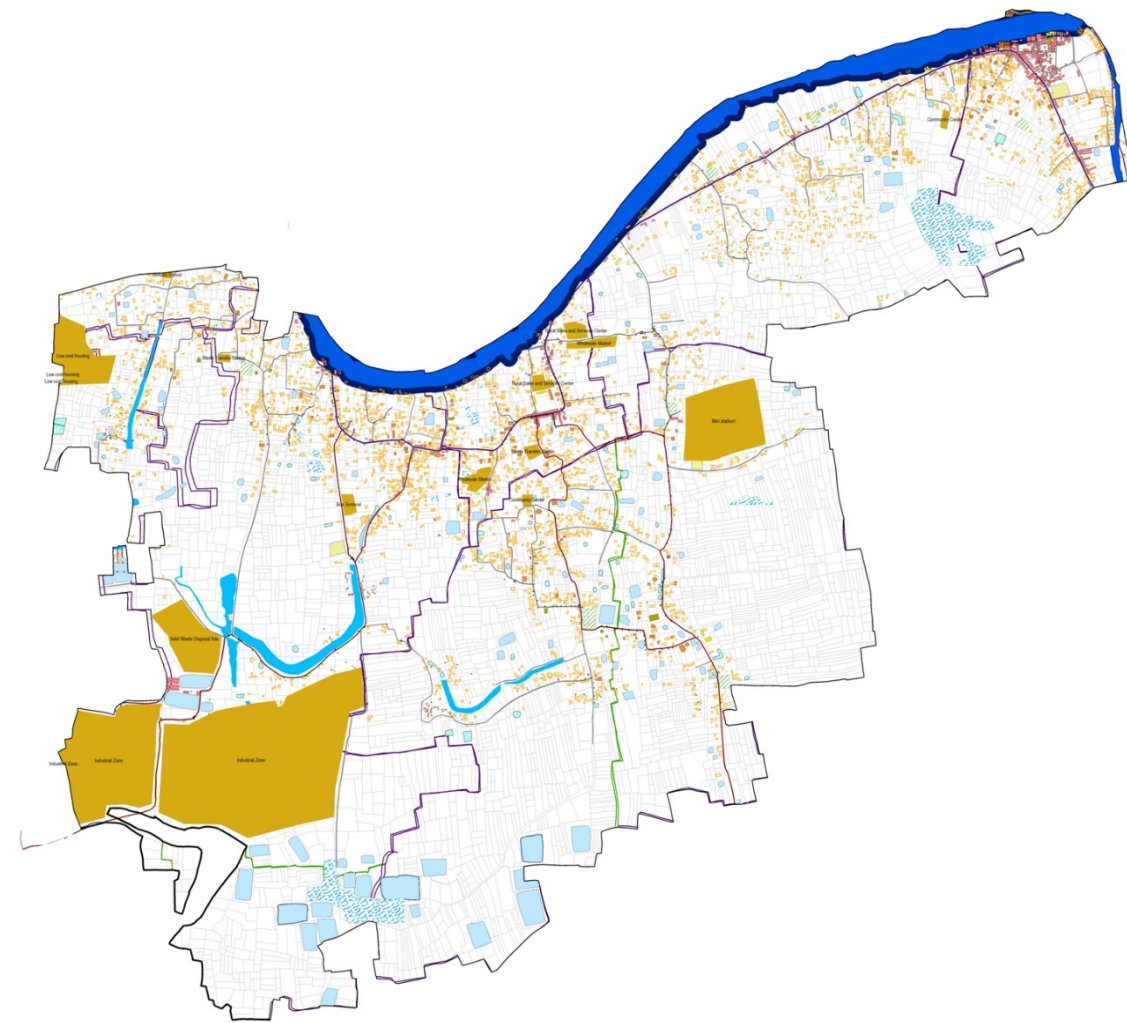
PROPOSED DRAINAGE PLAN FOR URBAN AREA OF NAWABGANJ UPAZILA



RURAL AREA PLAN

RURAL AREA PLAN

Proposed features of Bakshanagar Union, Nawabganj Upazila, Dhaka



Preparation of Development Plan for fourteen Upazilas (Bakshanagar Union, Nawabganj Upazila, Dhaka)

Urban Development Directorate (UDD), Ministry of Housing & Public Works

Index Map

Legend

Proposed Road	Proposed Canal	Proposed Water Body	Proposed Land Use
Proposed Road (1st Class)	Proposed Canal (1st Class)	Proposed Water Body (1st Class)	Proposed Land Use (1st Class)
Proposed Road (2nd Class)	Proposed Canal (2nd Class)	Proposed Water Body (2nd Class)	Proposed Land Use (2nd Class)
Proposed Road (3rd Class)	Proposed Canal (3rd Class)	Proposed Water Body (3rd Class)	Proposed Land Use (3rd Class)
Proposed Road (4th Class)	Proposed Canal (4th Class)	Proposed Water Body (4th Class)	Proposed Land Use (4th Class)
Proposed Road (5th Class)	Proposed Canal (5th Class)	Proposed Water Body (5th Class)	Proposed Land Use (5th Class)
Proposed Road (6th Class)	Proposed Canal (6th Class)	Proposed Water Body (6th Class)	Proposed Land Use (6th Class)
Proposed Road (7th Class)	Proposed Canal (7th Class)	Proposed Water Body (7th Class)	Proposed Land Use (7th Class)
Proposed Road (8th Class)	Proposed Canal (8th Class)	Proposed Water Body (8th Class)	Proposed Land Use (8th Class)
Proposed Road (9th Class)	Proposed Canal (9th Class)	Proposed Water Body (9th Class)	Proposed Land Use (9th Class)
Proposed Road (10th Class)	Proposed Canal (10th Class)	Proposed Water Body (10th Class)	Proposed Land Use (10th Class)

Consultant Team

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Project Director

Shakeen Ahmed

Project Manager-1

Fazila Sharmila Tobi

1. This map has been produced on Urban Upazila for preparation of Development Plan for fourteen Upazilas (Bakshanagar Union, Nawabganj Upazila, Dhaka).

2. Map prepared based on the survey database of March, 2017 by joint venture of UDD & ADB.

3. This map is produced on the basis of the survey database of March, 2017 by joint venture of UDD & ADB.

4. This map is produced on the basis of the survey database of March, 2017 by joint venture of UDD & ADB.

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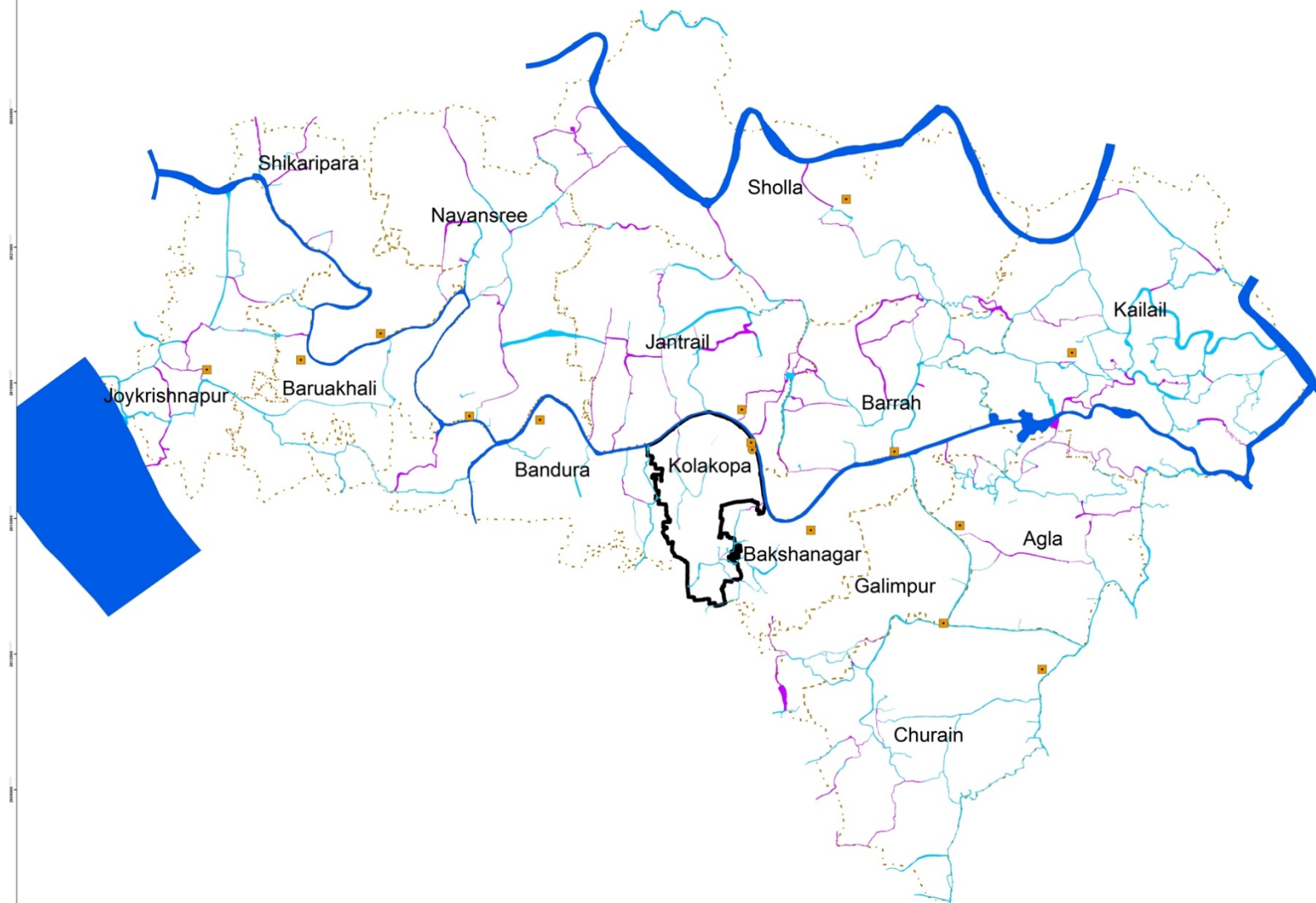
8. This map is produced on the basis of the survey database of March, 2017 by joint venture of UDD & ADB.

9. This map is produced on the basis of the survey database of March, 2017 by joint venture of UDD & ADB.

10. This map is produced on the basis of the survey database of March, 2017 by joint venture of UDD & ADB.

Proposed Natural Drainage Plan of Nawabganj Upazila

PROPOSED NATURAL DRAINAGE NETWORK MAP



Legend

Administrative Headquarter

- Upazila Parishad
- Union Parishad

Proposed Drain

- Propose Natural Drainage

Water Body

- River
- Khal

Administrative Boundary

- Pourashava Boundary
- Ward Boundary
- Urban Area

1:1980
1 inch = 798.56 meters
1 inch = 2,621.26 feet
0 2,150 4,300 8,600
Feet



Government of the People's Republic of Bangladesh
Ministry of Housing and Public Works

Urban Development Directorate (UDD)
Preparation of Development Plan for Fourteen Upazilas
Package-01
(Dohar Upazila, Nawabganj Upazila, Dohar and Shabbar Upazila,
Madaripur)

Consultants:
Joint Venture of



Desh Upodesh Ltd.
&
Aima International Bd Ltd.

THANK YOU ALL FOR BEING WITH US