

Preparation of Development Plan for fourteen Upazilas (Package-1)

DRAFT FINAL DEVELOPMENT PLAN OF DOHAR
UPAZILA

Wednesday, 23 May, 2018.

Project Area

Upazila	Area	Sq.km	Total Sq.km
Dohar Upazila, Dhaka	Urban	20.31	161.49
	Rural	141.18	



1. Inception Phase

2. Survey Phase

3. Planning Phase

Activities Performed

Task	Date of Performance	Activity Performed	Remark
	INCEPTION PHASE		
1. Mobilization and Reconnaissance Survey	9June-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	August-November 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	Mobililzation 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"> ▪ Dohar : 8 Unions and 8 Poura Wards (excluding Ward No. 08) ▪ Av. No. of Participants- 24-30 ▪ Type of 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	Dohar- June 2016	1. Construction and setting up of BM Pillars with data inscription	Dohar- 14
4. MAUZA MAP COLLECTION, DIGITIZATION AND PROCESSING	July – October 2016	<ol style="list-style-type: none"> 1. Digitization of maps 2. Edge matching 3. Georeferencing 	Dohar- 114

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 SURVEY	January, 2017 May,2017	<ol style="list-style-type: none">1. Physical Feature Survey,2. Land use survey3. Building Vulnerability Assessment4. Topo Survey	Dohar- 161.49 sq. km

Focus Group Discussion and Tea Stall Meetings

Dohar	No. of FGD	7
	Date	11/08/2015 to 13/08/2015
	No. of Participants	12 to 24 persons
Dohar	No. of Tea Stall Meetings	4
	Date	12/08/2015 to 13/08/2015
	No. of Participants	24 to 44 persons
Dohar	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 **Dohar** Upazila
 - No. of Sample Households in **Wards 176**
 - No. of Sample Households in **Unions 910**

GCP SURVEY

Upazila	Number	Date
Dohar	14	05-09-16

Geological Survey Activities

Dohar	Borehole	12
	PS Logging	3
	MASW	5

Geological Survey



Downhole Seismic Test data logger



Wooden Plank as the Vibration Source



Geophone Lowering In the Borehole



Data Acquisition Unit



Direction of Excitations



Geophone Installation into the Borehole

Agricultural Study

- Dohar (258 samples)



ESTABLISHMENT OF BM PILLAR

NUMBER
OF
BM
PILLARS

Dohar
14



Traffic and Transportation Survey



Traffic and Transportation Survey

Surveys Conducted

1. Traffic Volume Count
2. Origin- Destination (O-D) Survey
3. Bus Passenger Survey
4. Pedestrian Survey
5. Regional Transportation System 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 8
- No. of Participants 259
- No. of PRA in Wards 8 (excluding Ward No.08)
- No. of Participants 223

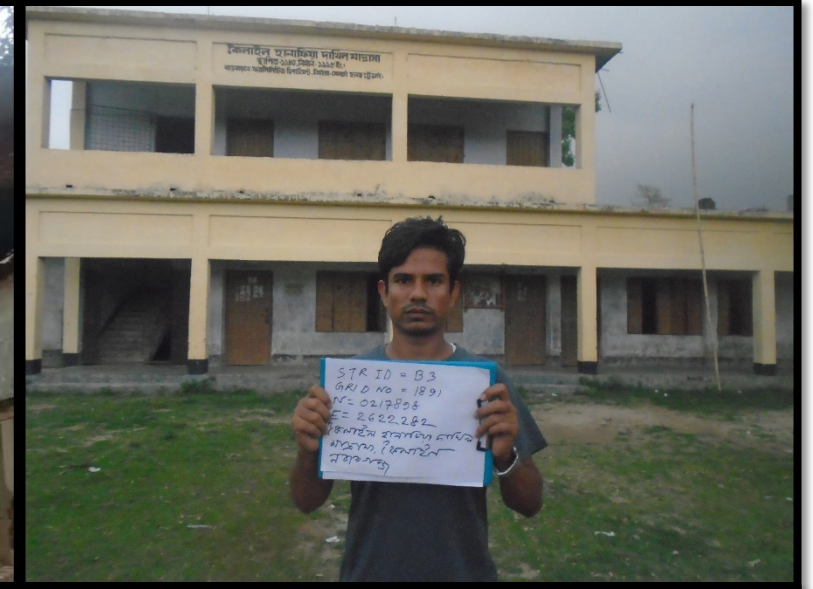
Consultation with Stakeholders based PRA



Conducting Physical Features Survey



Vulnerability Assessment



Field Checking & Supervision



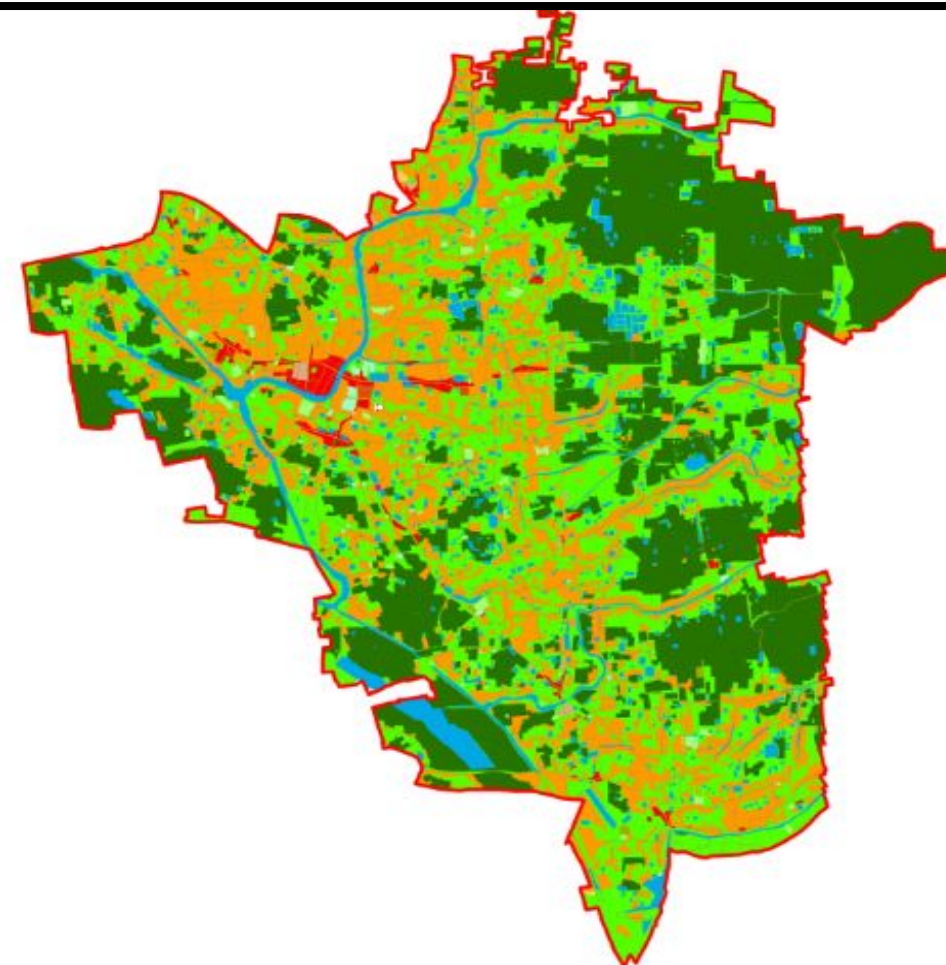
Digitization



THEMATIC MAPS

EXISTING LANDUSE MAP

Sl. No.	Land use Category	Existing Land use Area	
		Area (acre)	%
1	Urban Residential	1236.07	24.94
2	Agricultural Zone	1927.08	38.88
3	Commercial	68.22	1.37
4	Recreational	0.39	0.007
5	Community Facilities	0.4	0.008
6	Education	15.58	0.31
7	Government Services	4.1	0.08
8	Health Facilities	1.17	0.02
9	Mixed Use	11.4	0.22
10	Open Space	53.38	1.08
11	Religious	9.9	0.2
12	Transportation	92.87	1.8
13	Under construction	0.09	0.001
14	Waterbody	387.93	7.83
15	Vegetation	1140	22.9
	Total	4956.68	100



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	

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

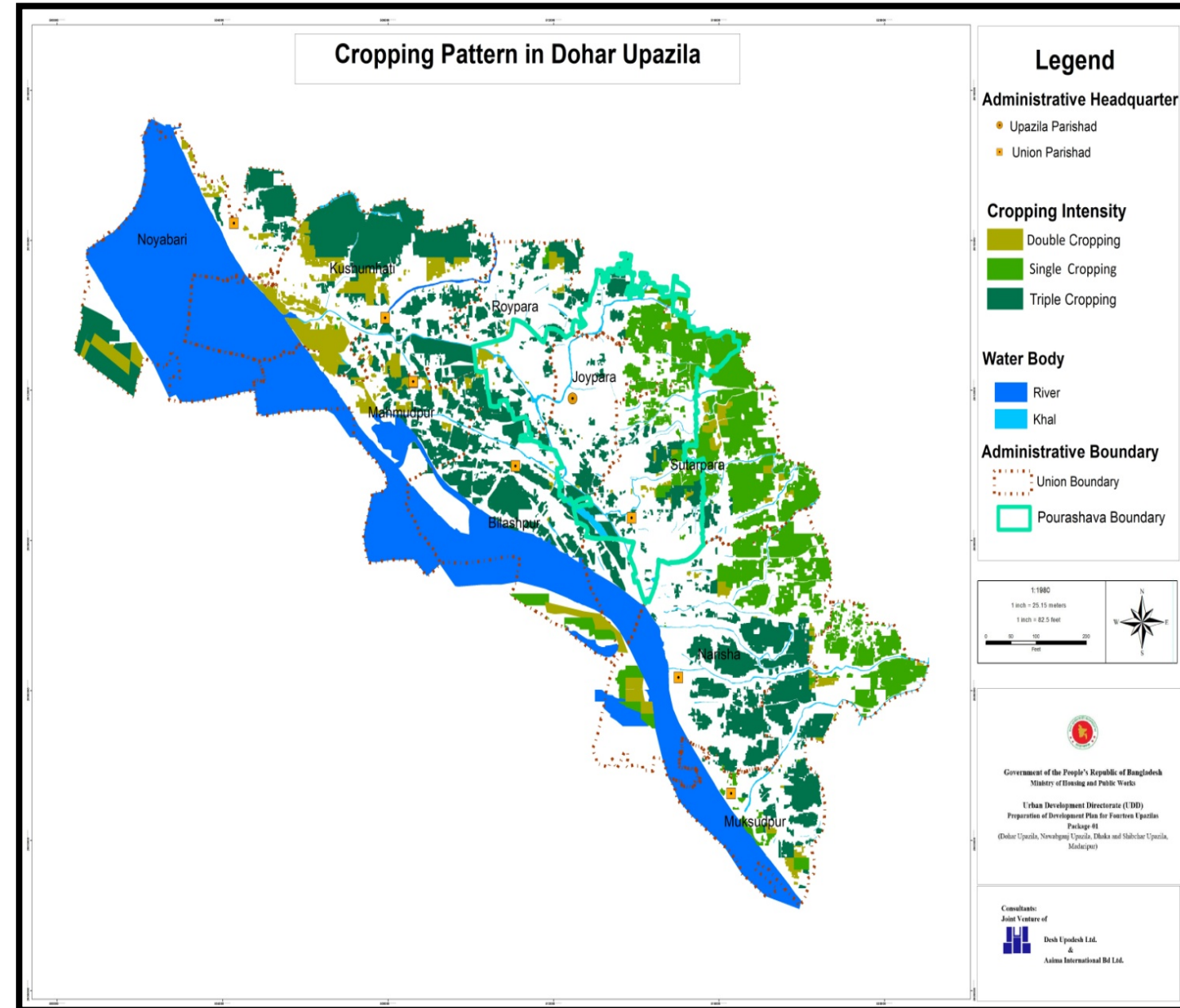
CROPPING PATTERN MAP

POURASHAVA

Cropping Pattern	Area in sqkm	Area in acre	Percentage (%)
Single Cropping	3.29	814.12	49.63
Double Cropping	.33	84.02	5.12
Triple Cropping	3	742.33	45.25

UPAZILA

Cropping Pattern	Area in sqkm	Area in acre	Percentage (%)
Single Cropping	13.2955	3285.3987	31.36
Double Cropping	5.5857	1447.7240	13.83
Triple Cropping	23.239	5742.6495	54.81

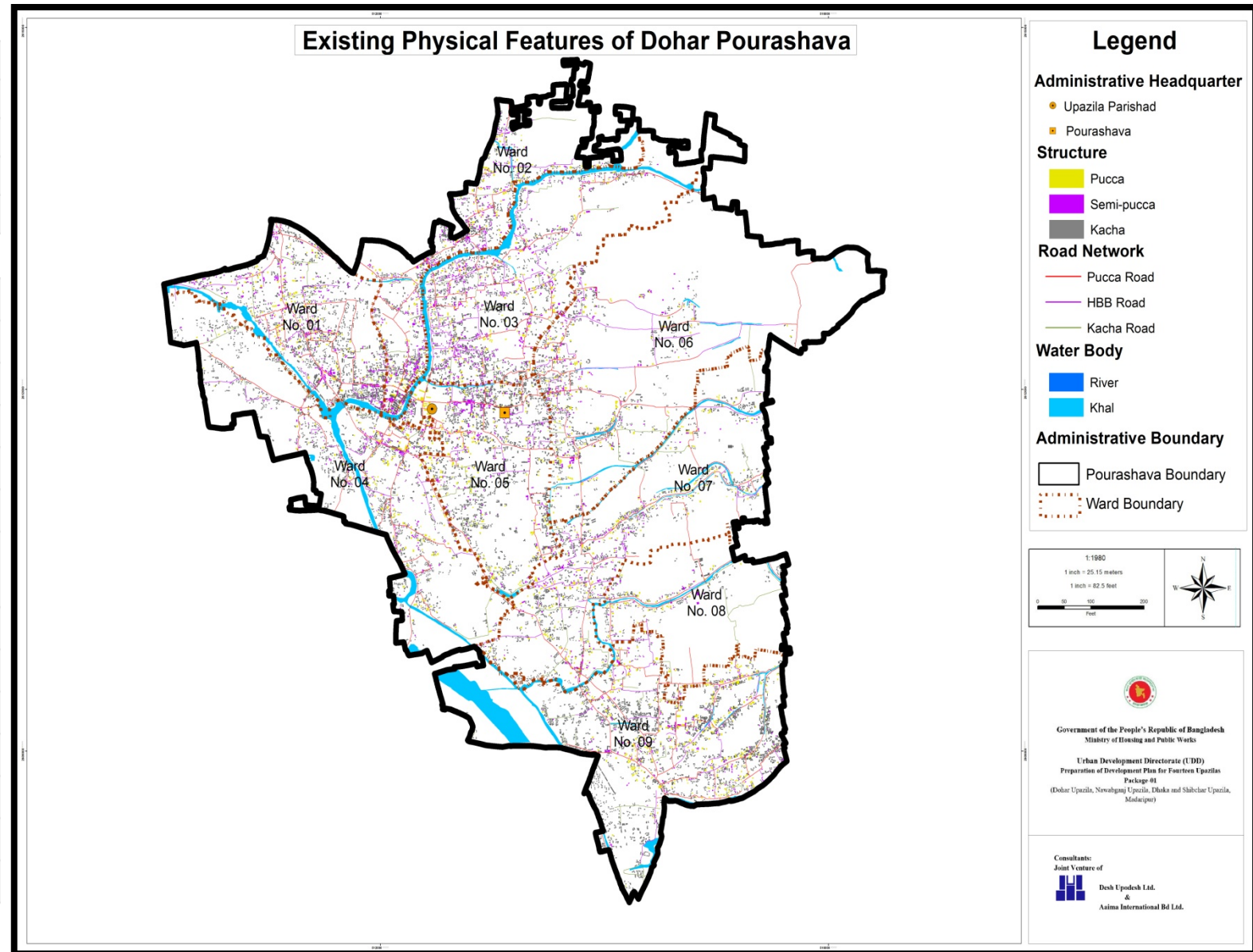


Source: Prepared by Consultant Team Based on Field Survey, 2017

Existing Structural Information

Structure Type	Number
Katcha	14019
Pucca	2695
Semi-pucca	2446
Total	19160

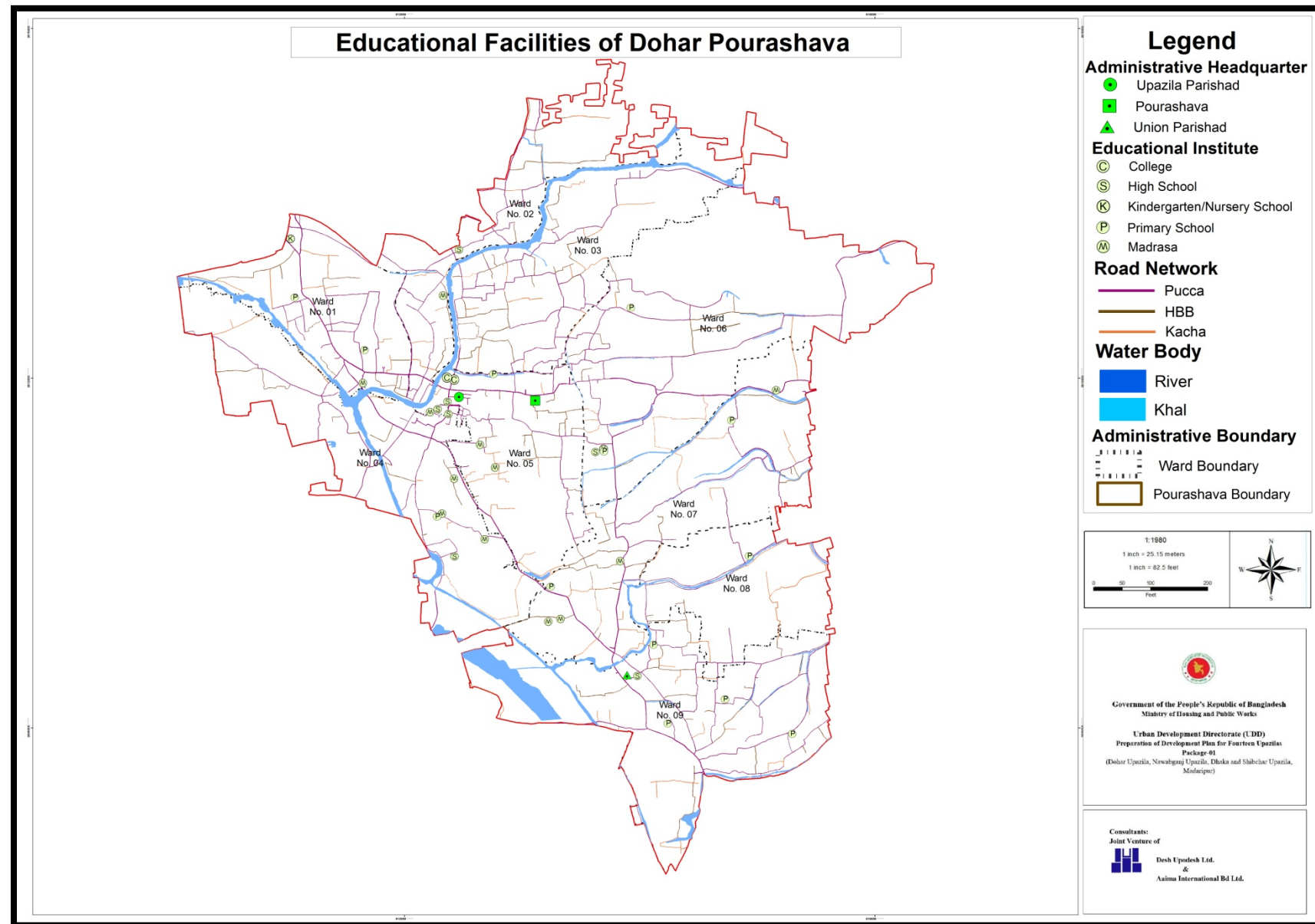
Structure Use	Number
Commercial Activities	1180
Community Facilities	1
Educational & Research	100
Government Services	15
Health Facilities	7
Recreational Facilities	4
Mixed Use	10
Religious	99
Residential	17142
Under Construction	19
Total	19160
Multi-storied Structure	758
Risky Structure	80



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

EXISTING EDUCATIONAL FACILITIES

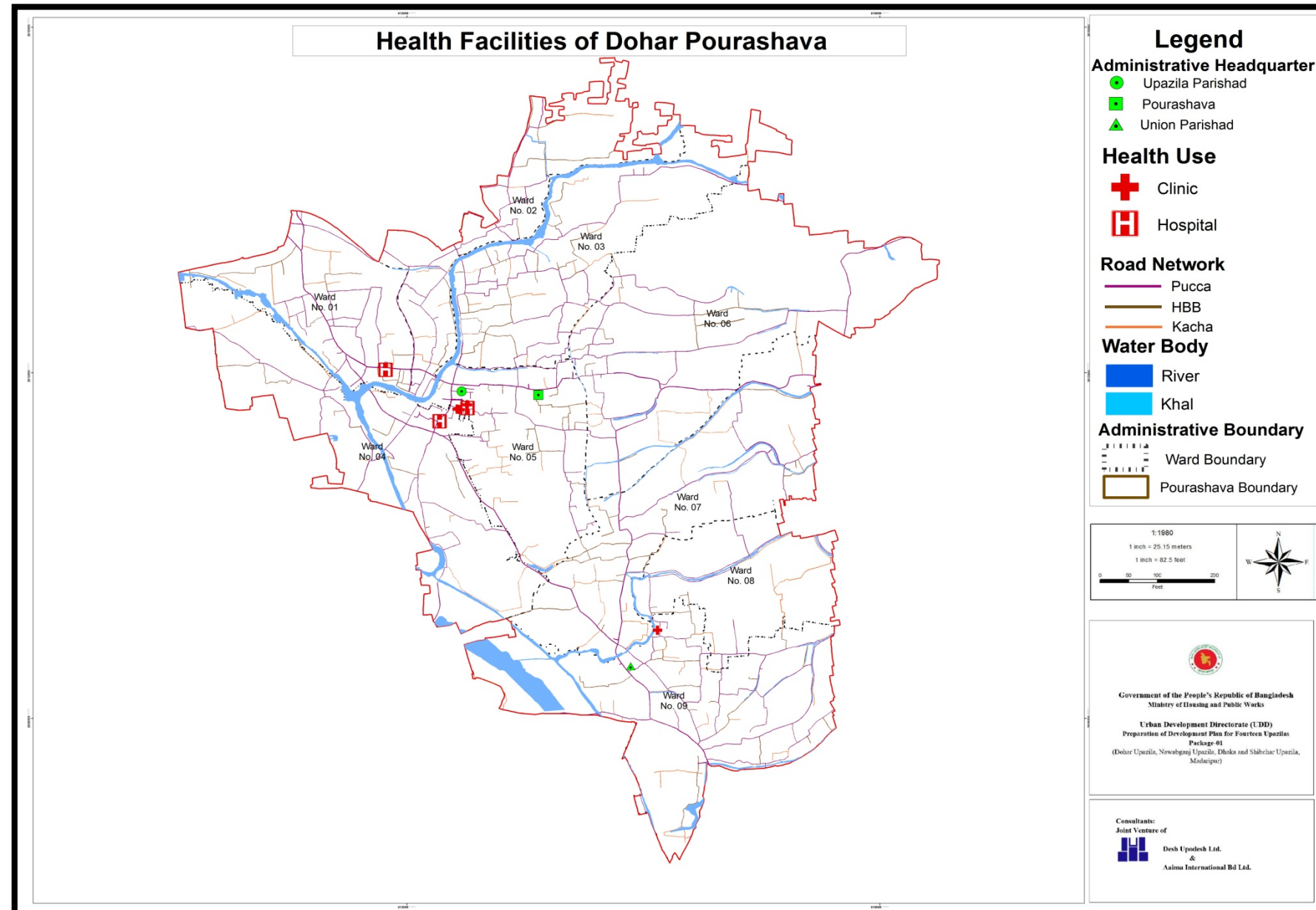
Educational Facilities	No. of Facilities
Primary School	12
Kindergarten/Nursery School	3
High School	7
College	2
Madrasa	13



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

EXISTING HEALTH FACILITIES

Health Facilities	No. of Facilities
Clinic	4
Hospital	3

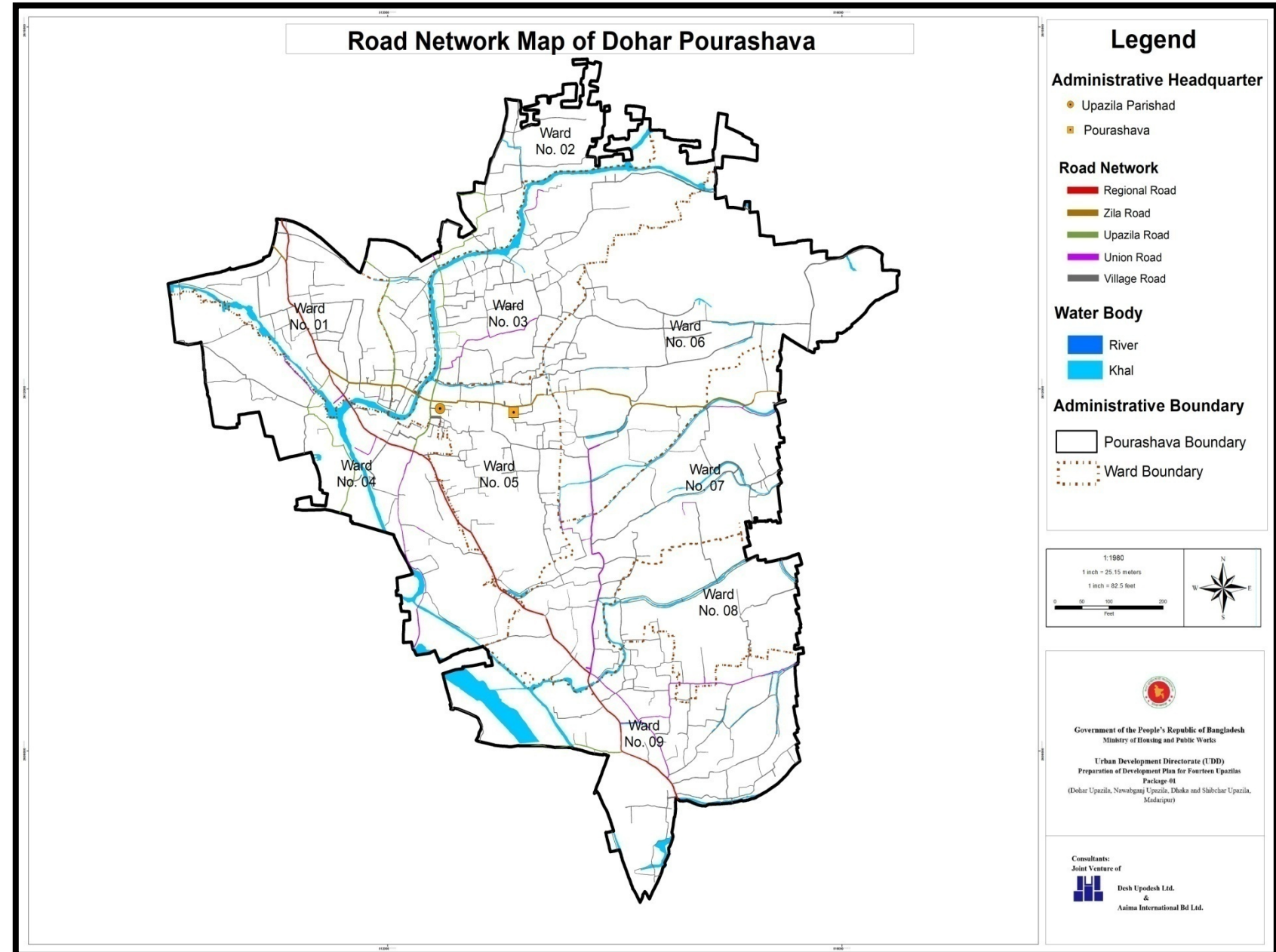


Source: Prepared by Consultant Team Based on Field Survey, 2017

ROAD CONNECTIVITY MAP

Road Category	Length (Km)
Regional Road	6.7
Zilla Road	7.16
Upazila Road	6.82
Union Road	11.13
Village Road	114.17

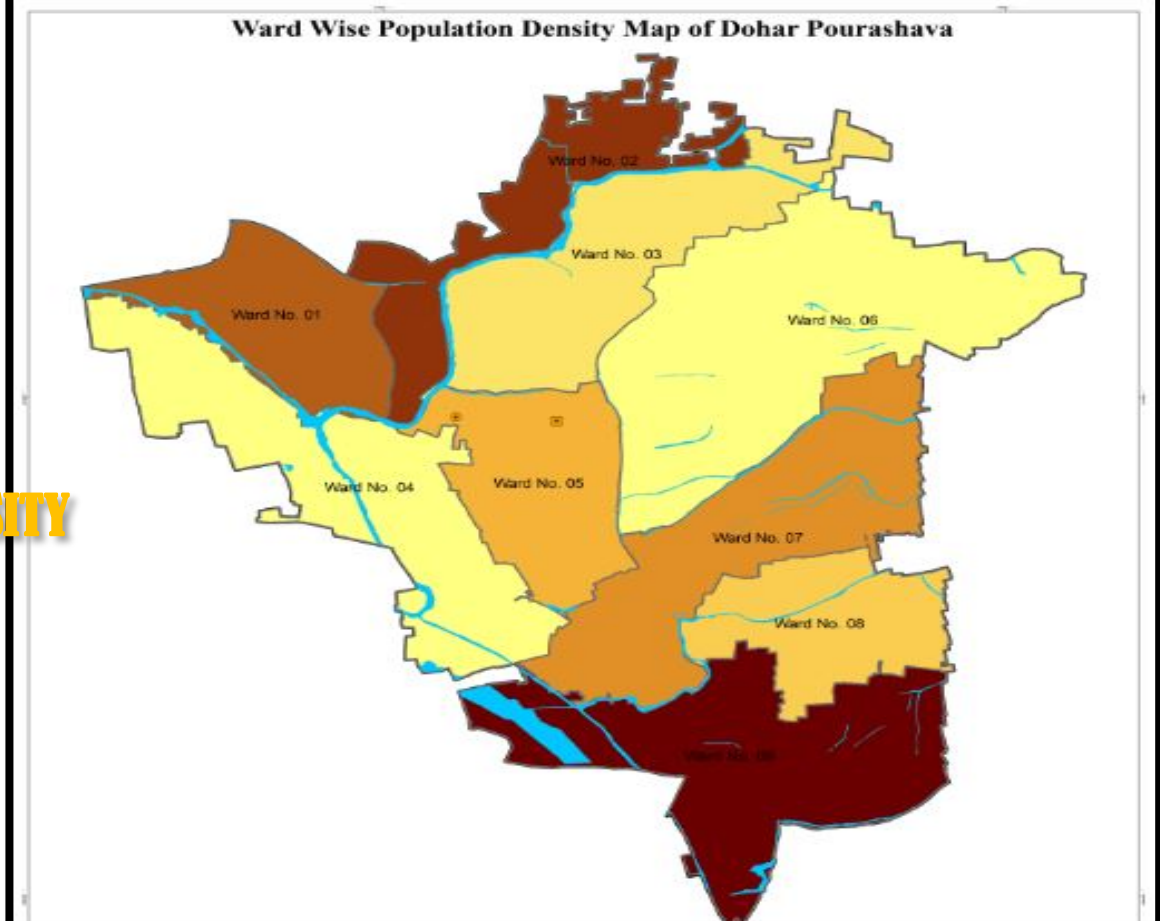
Road Type	Length (KM)
Kacha	27.63
Pucca	81.88
HBB	36.79
Total	146.3



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

POPULATION DENSITY

WARD WISE POPULATION DENSITY MAP (2011)



Legend

Population Density

Person per Acre



Administrative Headquarter

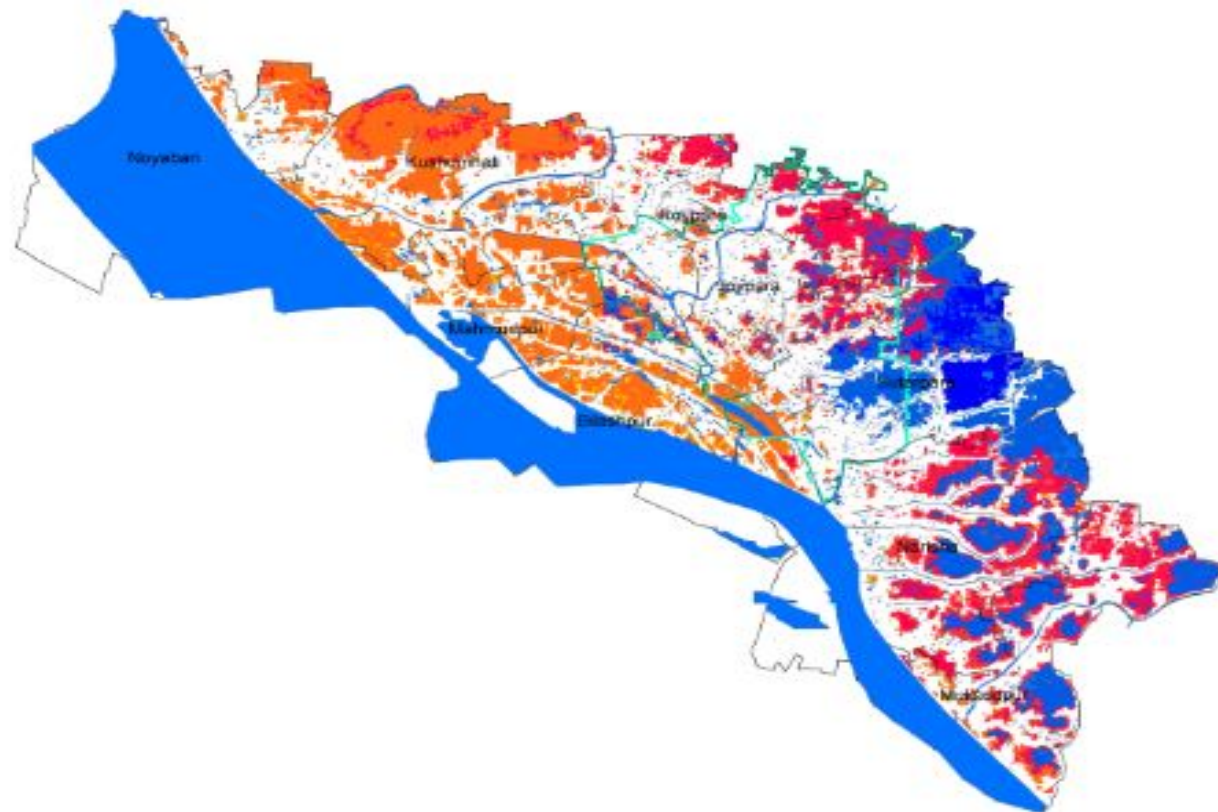
- Upazila Parishad
- Pourashava

Administrative Boundary

- Pourashava Boundary
- Ward Boundary
- River/Khal

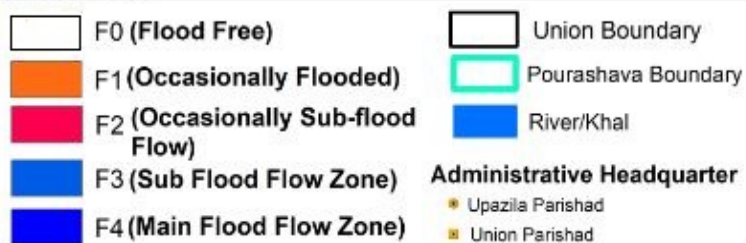
FLOOD SCENERIO MAP

Different Flooding Scenario				
Flooded Land Category	Water Height (m)	Area in acre	Percentage (%)	Remarks
1st Degree Flooded area (F0)	0-0.3	445.03	3.84	
2nd Degree Flooded area (F1)	0.3-0.9	4723.86	40.75	
3rd Degree Flooded area (F2)	0.9-1.8	2715.51	23.42	
4th Degree Flooded area (F3)	1.8-3.6	2924.44	24.22	Sub Flood Flow Zone
5th Degree Flooded area (F4)	>3.6	783.12	7.75	Main Flood Flow Zone



Legend

Flood Zone



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.









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

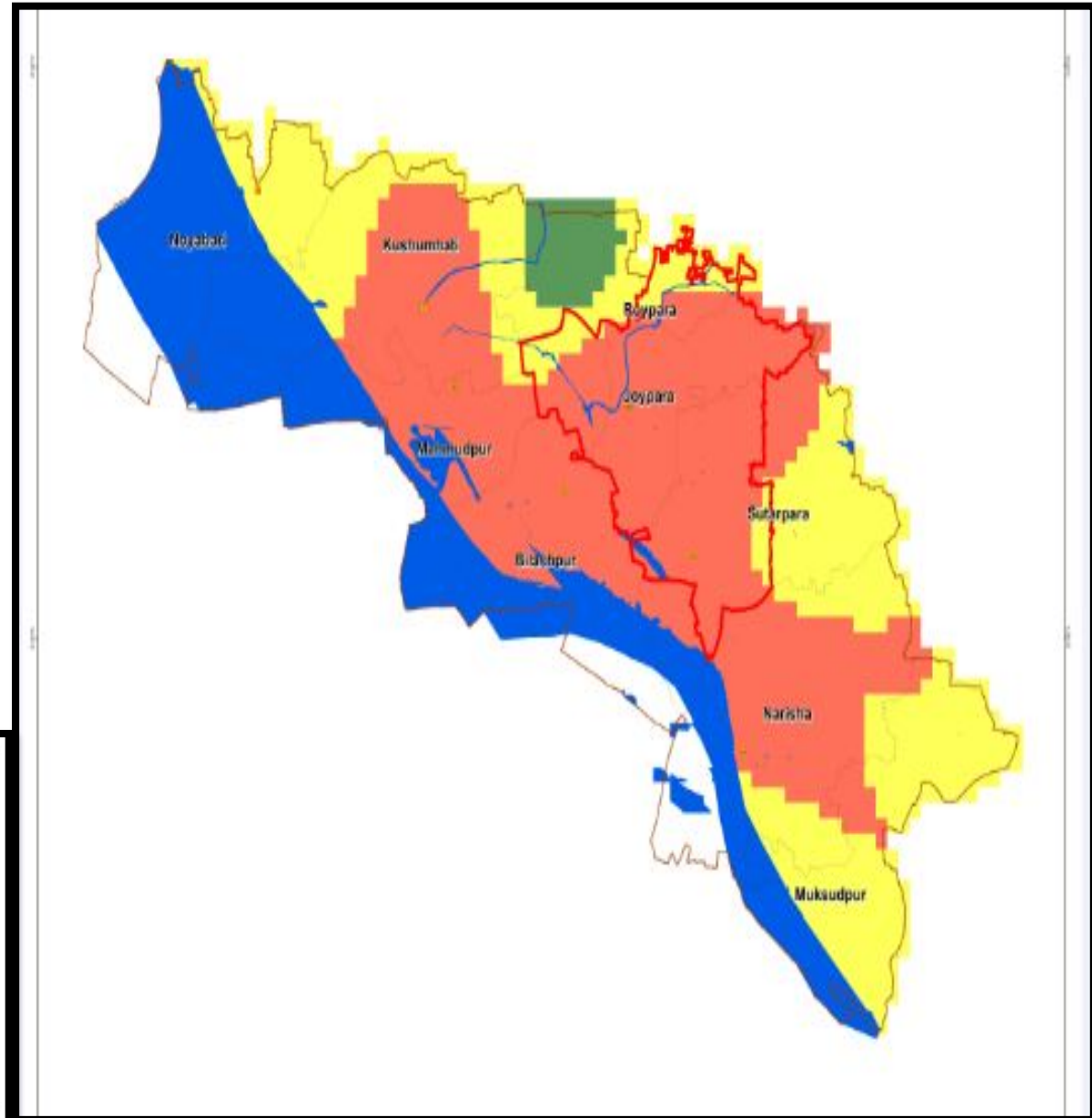
Source: Prepared by Consultant Team Based on Field Survey, 2017

PGA MAP

Earthquake Sensitivity	Area in acre	Percentage (%)
1 st Degree Sensitive	13884.23	55.43
2 nd Degree Sensitive	10347.53	41.30
3 rd Degree Sensitive	818.54	3.27

Legend

PGA			Administrative Headquarter	
	River/Khal		1st Degree Earthquake Sensitive	 Upazila Parishad
	Upazila Boundary		2nd Degree Earthquake Sensitive	 Union Parishad
	Union Boundary		3rd Degree Earthquake Sensitive	



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

GEOLOGICAL /INFRASTRUCTURE SUITABILITY

Legend

 River/Khal

 Upazila Boundary

 Pourashava Boundary

 Union Boundary

Administrative Headquarter

 Upazila Parishad

 Union Parishad

Infrastructure Suitability

 Very Good

 Good

 Moderate

 Poor


 Very Poor

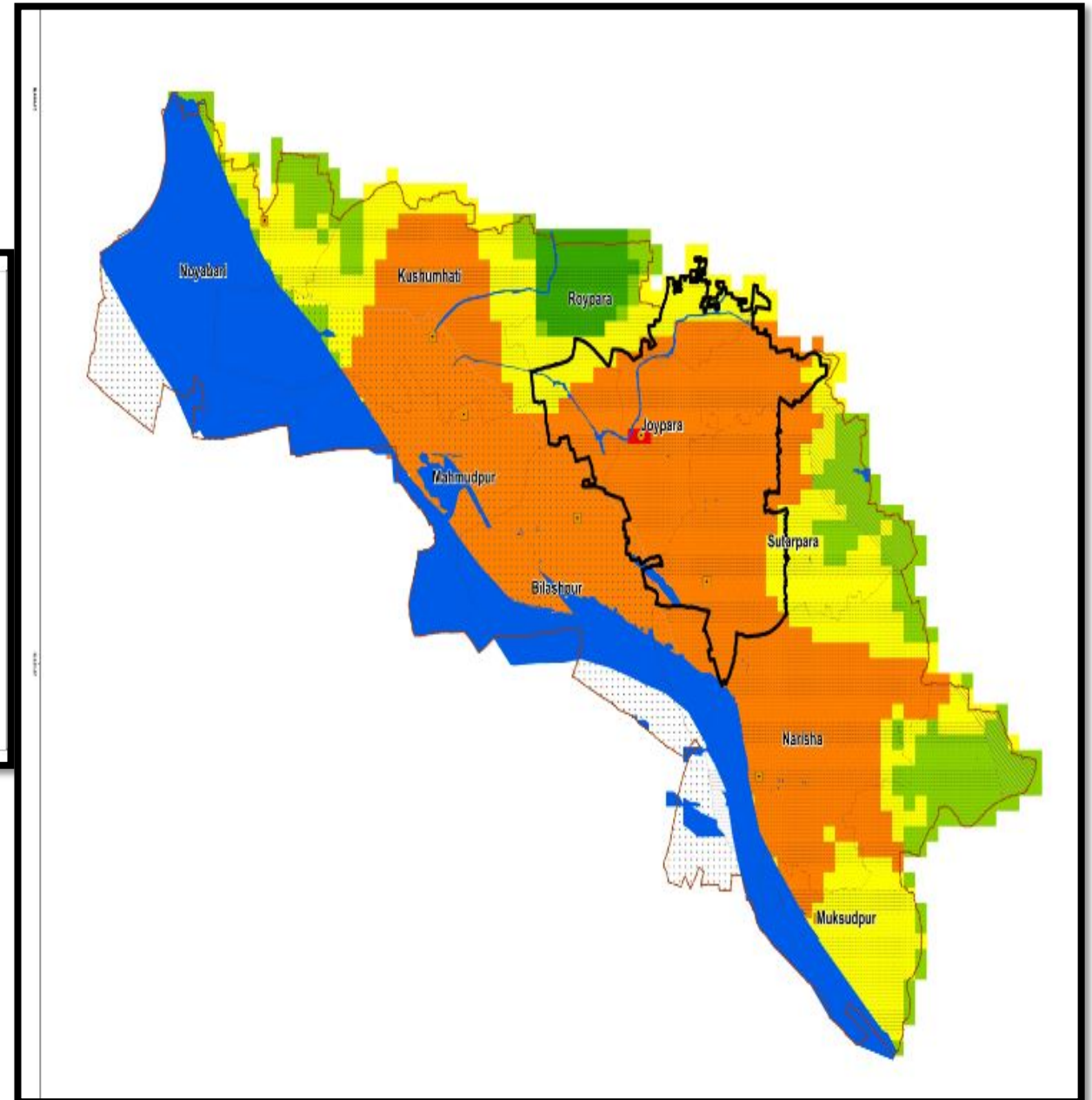
Surface Geology

 Alluvial sand

 Deltaic sand

 Deltaic silt

 Marsh clay and peat



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

SUITABILITY MAPS

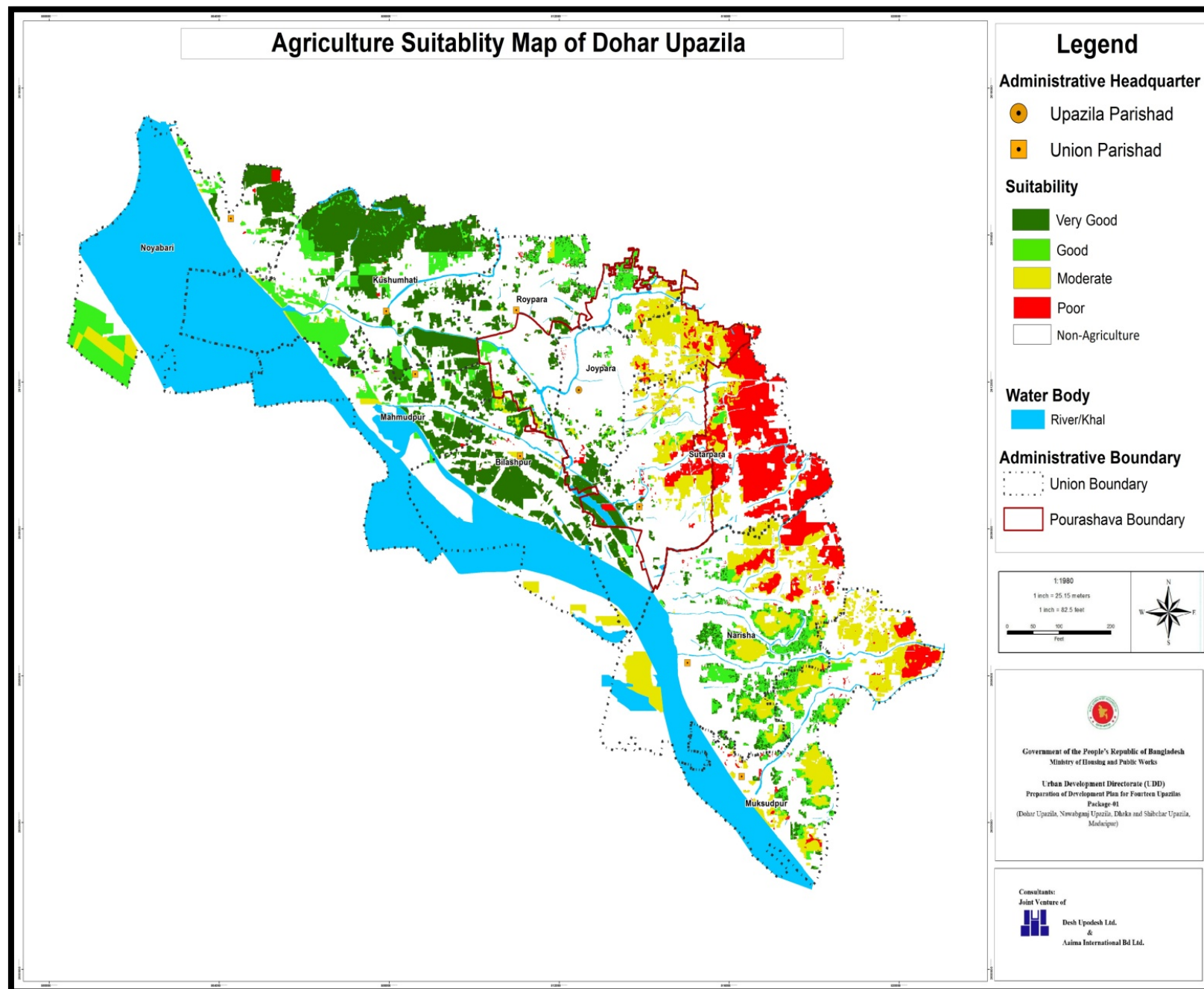
SUITABLE AREA FOR AGRICULTURE

Criteria for Suitability

Criteria	Weightage
Cropping Pattern	60%
Flood Depth	40%

Suitability

Suitability	Area(Acre)	Percentage(%)
Very Good	3322.06	33.97
Good	2096.63	21.44
Moderate	2641.72	27.02
Poor	1716.46	17.56



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

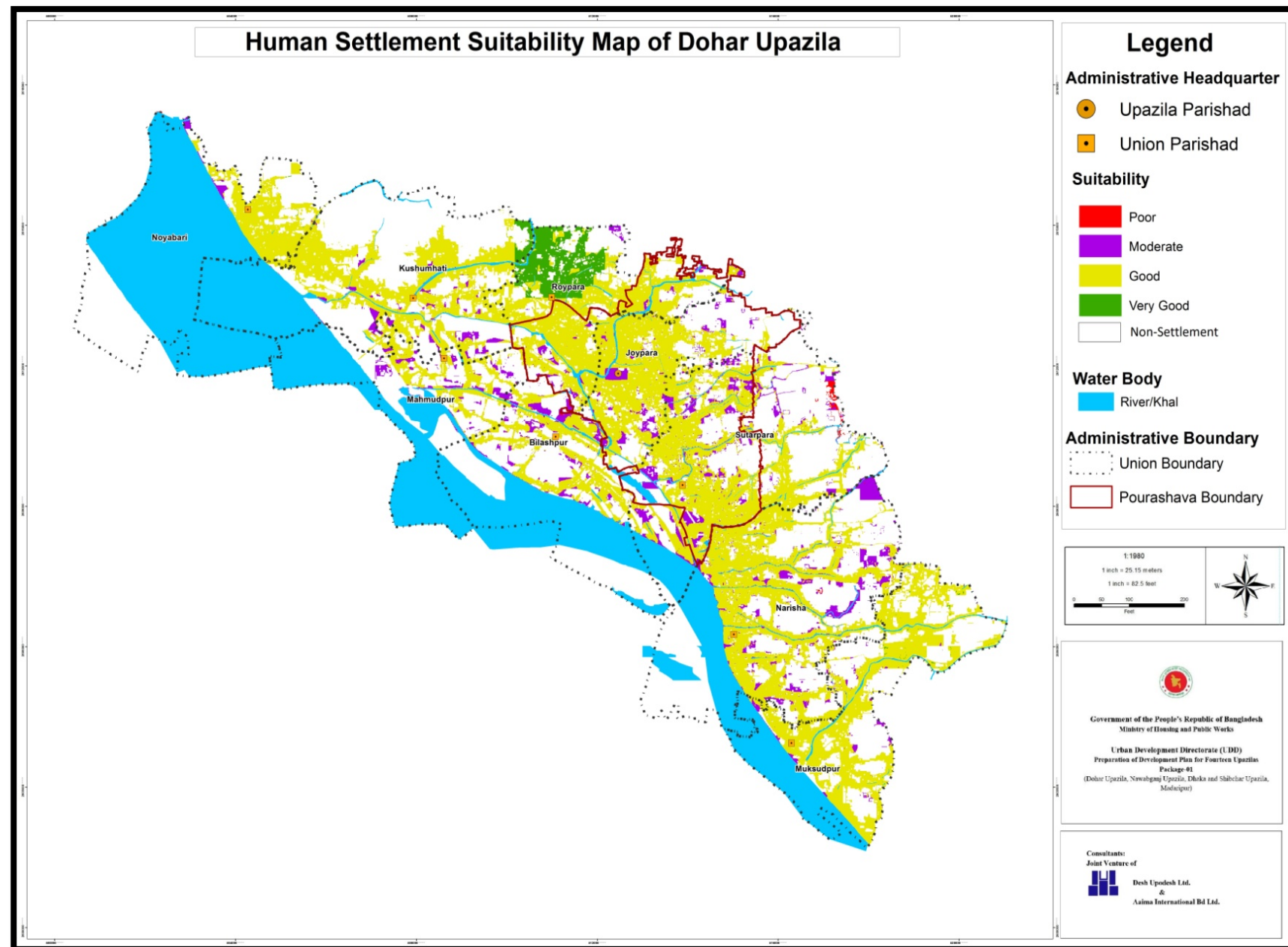
LAND SUITABILITY FOR HUMAN SETTLEMENT

Criteria for Suitability

Criteria	Weightage
Proximity Road	35%
Geological Suitability	25%
DEM	25%
Inundation	15%

Suitability

Suitability	Area(Acres)	Percentage
Very Good	470.92	4.42
Good	9106.68	85.37
Moderate	1063.86	9.97
Poor	25.81	0.24



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

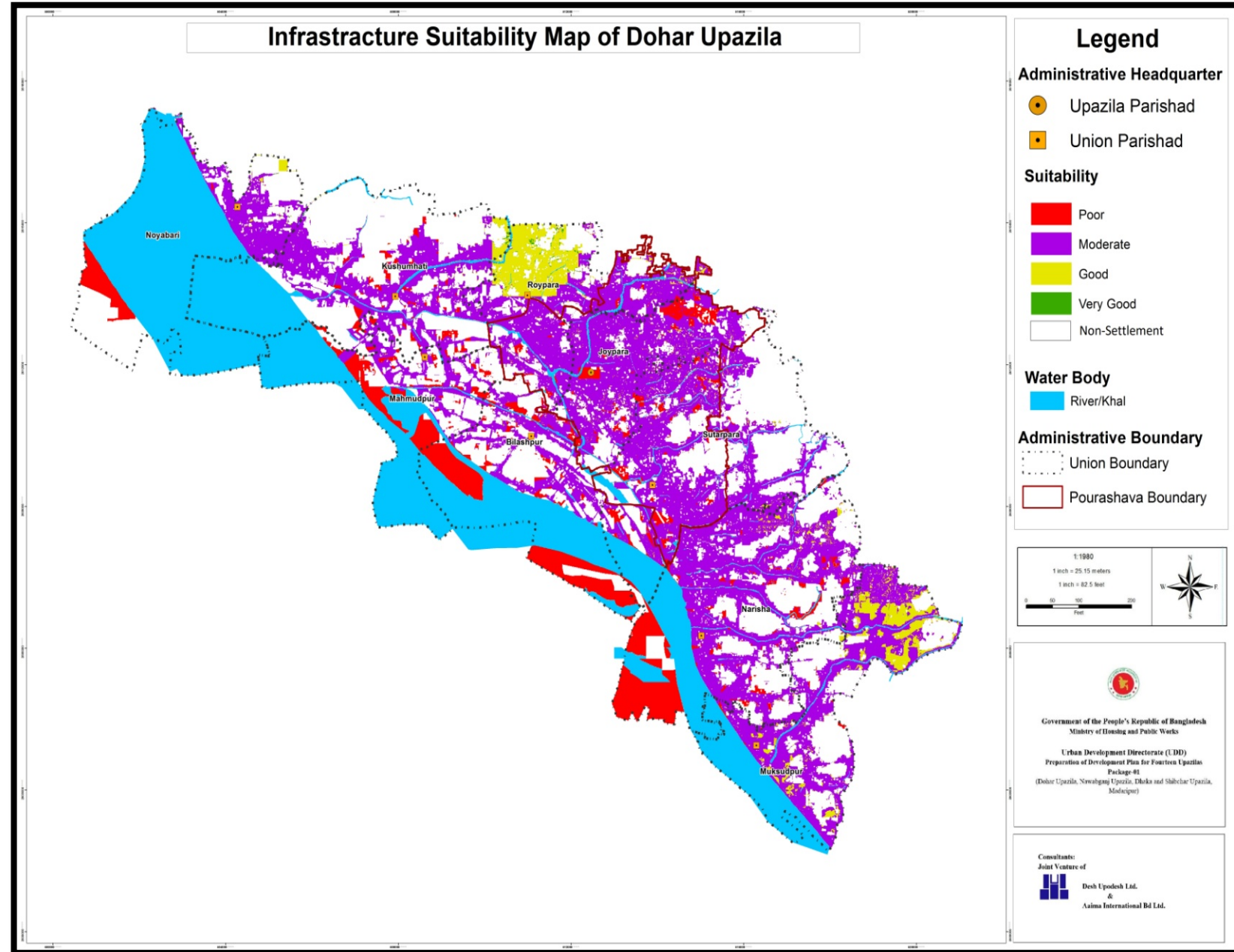
SUITABLE AREA FOR INFRASTRUCTURE

Criteria for Suitability

Criteria	Weightage
Geologic Suitability	45%
Inundation	35%
Proximity Road	20%

Suitability

Suitability	Areas(Acres)	Percentage (%)
Very Good	25.87	0.196344
Good	1035.48	7.858936
Moderate	10078.83	76.49484
Poor	1243.58	15.979377



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

PLANNING STANDARD

EDUCATION FACILITIES				
Use/Facility	Recommended Standard Provision(unit)	Existing No.	Total Required No. and Land	Additional Needed
Urban Area Projected Population: 99,924 (2028)				
Primary School	2.00 acres/5000 population	12	NO. 20 39.96 acre	8
High School	5.00 acres/ 20,000 population	7	No.5 25.00 acres	None
College	10.00 acres/30,000 population	2	No.3 30.00 acres	1
Vocational Training Centre	5 acre/ Upazila	None	5.00 acres	1
Rural Area Projected Population : 3,70,642(2038)				
Primary School	2.00 acres/5000 population	26	No. 74 148 acres	48
Secondary/High School	5.00 acres/ 20,000 population	18	No. 18 92.66 acres	None
College	10.00 acres/30,000 population	4	No.12 123.54 acres	8

ROAD	
Road Category	Recommended Standard
Regional Highway	80 ft
Primary Road A	60 ft.
Primary Road B	50 ft.
Service/Access Road	30 ft.

RECREATION OPEN SPACE			
Facility	Recommended standard	No. and Land Requirement for New Facilities (acre)	Remark
Urban Area Projected Population: 99,924(2028)			There is no play field for public use. Most fields are attached to education facilities for their own use.
Play field	3.00 acres/20,000 pop ⁿ	No.5 14.98 acres	
Park	10.00 acre /40000 pop ⁿ	No.2 24.98 acres	
Rural Area Projected Population : 3,70,642 (2038)			
Play field	3.00 acres/20,000 pop ⁿ	No.18 55.59 acres	
Park	10.00 acre /40000 pop ⁿ	No.9 92.66 acres	

COMMUNITY, SOCIAL AND ADMINISTRATIVE FACILITIES			
Use/Facility	Recommended Standard	No. and Land Requirement (acre)	Remark
Urban Area Projected Population: 99,924(2028)			
Central Graveyard, and Cemetery	10.00 acre / One for Pourashava	No.1 10.00 acre	
Swasan	3.00 / Pourashava	3.00	
Cemetery	2.00 acres/ Pourashava	2.00	
Ward Centre	One in each ward/0.50 acre	.50 x 9	

PLANNING STANDARD

SOCIAL ,ADMINISTRATIVE AND INSTITUTIONAL FACILITIES WITH LUMP SUM LAND ALLOCATION		
Facility	Allotted Land	Remark
1. Jail	15.00 acres	In Urban area/Pourashava
2. 200 bed Hospital with ICU and CCU facility.	20.00 acres	In Urban area/Pourashava
3. Low cost housing of poor destitutesite and service project	100 acres	In Urban area/Pourashava
4. Sludge treatment plant- 1.5 acre-Practical action design, cost tk.3 crore	1.50 acres	In Urban area/Pourashava
5. ICT Park	2.50 acres	In Urban area/Pourashava
6. Amphitheatre	.50 acres	In Urban area/Pourashava
7. Central/Amusement park	20.00 acres	In Urban area/Pourashava
8. Botanical garden	50.00 acres	Suitable location in the upazila
9. Examination hall/development fair.	0.50 acre	In Urban area/Pourashava
10. Community clinic	.50 acre	One in the Pourashava and one in each Union
11. Central mosque	0.50 acre	In Urban area/Pourashava
12. Food godown	.50 acres	Urban area/Rural Area
13. Cold storage	.50 acres	Urban area/Rural Area

14. Slaughter House	0.30 acre	In Urban area/Pourashava
15. Mini stadium	20.00 acres	Suitable location in the upazila
16. Graveyard/Swasan/Cemetry	10.00 acres	In Urban area/Pourashava/Union
17. Industrial Estate	150.00 acres	Suitable location in the upazila
18. Tourism Site	40 acres	Alongside Moinot Ghat
19. Community Center	.50 acre	In Urban area/Pourashava/Union
20. Housing Estate	150 acre	Rural Area
21. Shilpokola Academy	.50 acre	In Urban area/Pourashava
22. Youth Center	.20 acre	In Urban area/Pourashava
23. Fisheries	10 acre	Rural Area
24. Common Examination Hall	.5 acre	In Urban area/Pourashava
25. Wholesale Market	2.00 acre/50,000 population	Area: 15.00 acres
26. Retail Market/ Rural Sales and Services	One bazar for every 30,000 population (1 acre for each bazar)	Total Area: 15 acres Existing: 10 acre Additional: 5 acre
27. Solid Waste Disposal Site	10 acre	

Transportation	
Bus terminal	1.0 acre /50000 population
Truck terminal	0.50 acre /50,000 population

PRA FINDINGS OF DOHAR UPAZILA (In Unions)

Major Problems	Unions Affected	No. of Union
Problems of Road (Narrow Road)	Nayabari, Kushumhati, Roypara, Sutarpara, Narisha, Muksudpur, Mahmudpur, Bilashpur	8
Problem of shelter for landless people.	Nayabari	1
Infrastructure problem of educational institutions.	Nayabari, Narisha, Mahmudpur, Bilashpur	4
Problem of safe drinking water.	Nayabari, Kushumhati, Sutarpara, Narisha	4
Repair of religious institutions	Nayabari	1
Water logging problem.	Kushumhati, Sutarpara, Narisha, Muksudpur	4
Sanitation problem.	Kushumhati, Roypara, Sutarpara, Mahmudpur,	4
Health services problems.	Kushumhati, Roypara, Mahmudpur Bilashpur , Nayabari	5
Padma river erosion problem.	Sutarpara, Narisha, Muksudpur, Mahmudpur, Bilashpur	5
Absence of sluice gate.	Bilashpur	1
Electricity problem.	Bilashpur	1

PRA FINDINGS OF DOHAR UPAZILA (In Wards)

Major Problems	Affected Wards	No. of Wards
Problems of drug abuse	Ward No. 1	1
Problem of Road (Narrow Road)	Ward No. 1, Ward No. 2, Ward No.3, Ward No. 4, Ward No. 5, WardNo. 6, Ward No. 7, Ward No. 9	8
Problem of Safe drinking water.	Ward No. 1, Ward No. 2, Ward No.3, Ward No. 5	4
Infrastructure problem of educational institutions.	Ward No. 1, Ward No. 2, Ward No.3, Ward No. 5, Ward No. 7, WardNo. 9	6
Problem of infrastructure in religious facilities.	Ward No. 1, Ward No. 6, Ward No.7	3
Drainage problem + water logging	Ward No. 1, Ward No. 2, Ward No. 4, Ward No.7, Ward No. 9	5
Sanitation problem.	Ward No. 2	1
Want pucca ghat in Padma branch river.	Ward No. 3	1
Absence of government primary school.	Ward No. 4	1
Need ICT tanning center for young people.	Ward No. 4	1
Absence of river bank protection dam.	Ward No. 5	1
Poor health service	Ward No. 6, Ward No. 9,	2
Electricity expansion problem.	Ward No. 9	1

PROPOSED FEATURES FOR UPAZILA

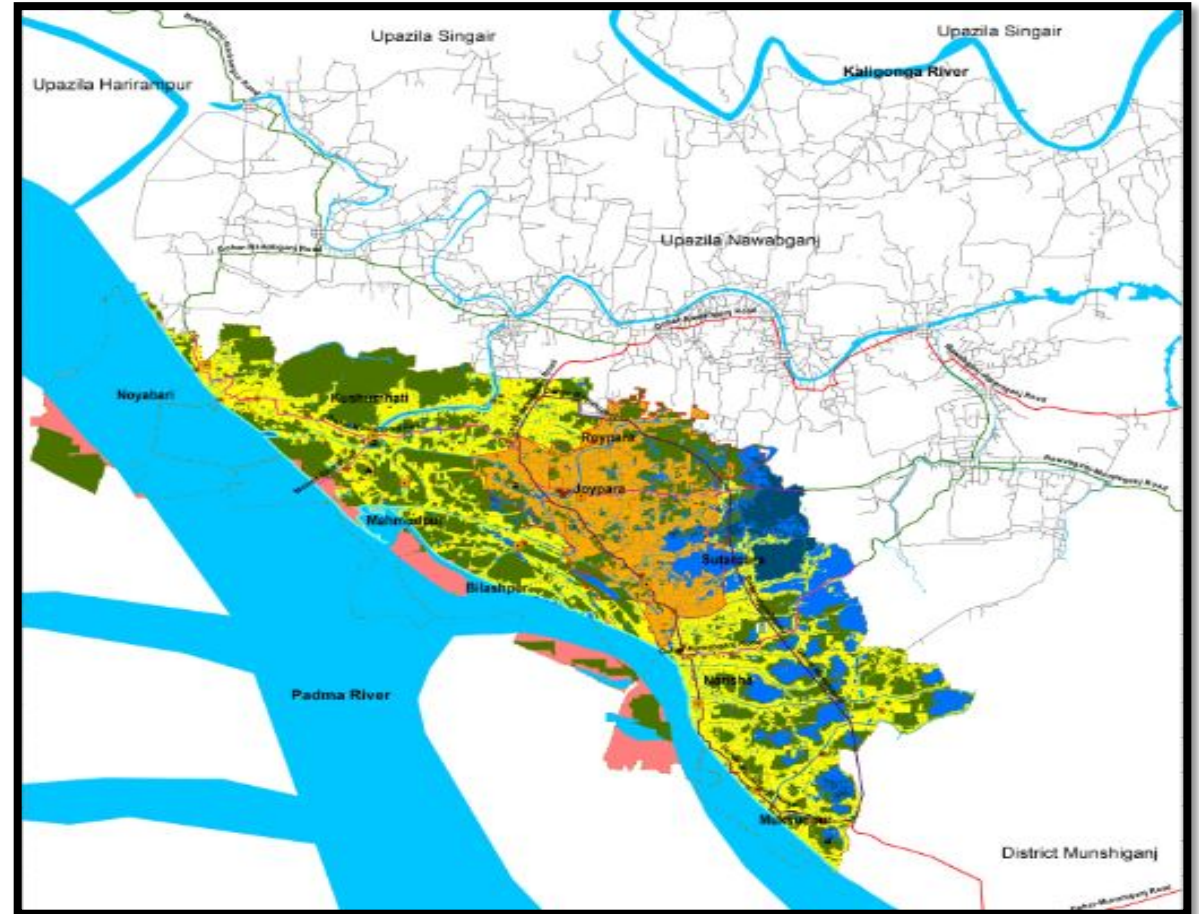
Sub-Regional Plan	Structure Plan	Urban Area Plan	Rural Area Plan
<ul style="list-style-type: none"> ➤ Industrial Zone ➤ Tourist Zone ➤ Bus terminal ➤ Truck Terminal ➤ Economic Zone 	<ul style="list-style-type: none"> ➤ Hospital with ICU and CCU Facility ➤ Industrial Zone ➤ Housing Estate ➤ Solid Waste Disposal Site ➤ Jail ➤ Mini Stadium 	<ul style="list-style-type: none"> ➤ Amphithetre ➤ ICT Park ➤ Vocational Training Center ➤ Sludge Treatment Plan ➤ Primary School ➤ College ➤ Amusement Park ➤ Vocational Training Center ➤ Food Godown ➤ Cold Storage ➤ Central Graveyard ➤ Central Cemetry ➤ Central Crematory Ground ➤ Neighborhood Park ➤ Play Field ➤ Electric Substation ➤ Waste Transfer Station ➤ Central Mosque ➤ Common Examination Hall ➤ Low Cost Housing ➤ Community Center ➤ Community Clinic ➤ Public Toilet ➤ Slaughter House ➤ Shilpokola Academy ➤ Youth Center 	<ul style="list-style-type: none"> ➤ Wholesale Market ➤ Retail Market ➤ Rural Sales and Service Center ➤ Primary School ➤ College ➤ Botanical Garden ➤ Food Godown ➤ Cold Storage ➤ Neighborhood Park ➤ Play Field ➤ Electric Substation ➤ Waste Transfer Station ➤ Community Center ➤ Community Clinic ➤ Continental Embankment for River Bank Erosion ➤ Fisheries and fish processing center

SUBREGIONAL PLAN

SUB REGIONAL PLAN

Components of Sub-regional Plan

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



LEGEND

Strategic Zone

- Agriculture Protection
- Urban Settlement
- Restricted Special
- Rural Settlement
- Sub Flood Flow
- Main Flood Flow

- Water Body
- Water Protection Zone
- Circulation Network

Urban Center

- Sub Regional Growth 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

- Bus Terminal
- Industrial Zone
- Tourism Site
- Truck Terminal
- Economic Zone

Existing Features

- Fire Service
- Police Station
- Post Office

- Regional Highway
- Zilla Road
- Other Agency Roads

Administrative Boundary

- Pourashava Boundary
- Union Boundary

SUB REGIONAL PLAN

Policies for Sub-regional Planning

Connectivity and Transportation Network

- Policy 1: Prioritize inter-(Dohar-Nawabganj-Dhaka/Dohar-Srinagar-Dhaka/Dohar-Harirampur-Manikganj) and intra-(Lotakhola-Kushumhati-Barrah Bazar, Thanar More-Narisha, Thanar More-Ghata) regional connectivity.
- Policy 2: Accelerate high standard road links through widening of primary and secondary 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.

STRUCTURE PLAN

Existing Land Use of Dohar Upazila



EXISTING LANDUSE MAP

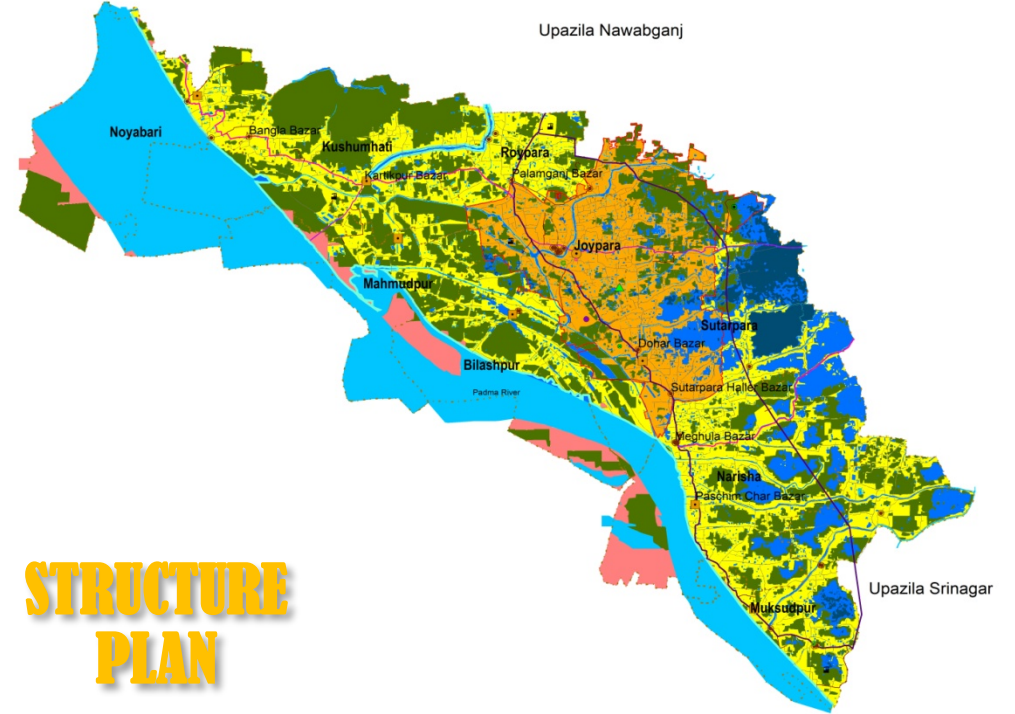
LEGEND

- | | | | | |
|-------------------|-------------------------------|-------------------------|---------------------------|---------------------|
| 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 DOHAR UPAZILA

Upazila Harirampur

Upazila Nawabganj



STRUCTURE PLAN

Upazila Srinagar

Upazila Shibchar

PREPARATION OF DEVELOPMENT PLAN FOR FOURTEEN UPAZILAS (DOHAR UPAZILA)

LEGEND

- | | | | | | |
|--|---|--|--|---|---|
| Strategic Zone
Agriculture Protection
Urban Settlement
Restricted Special
Rural Settlement
Sub Flood Flow
Main Flood Flow | Water Body
Water Protection Zone
Circulation Network
Urban Center
Growth Center | Administrative Headquarter
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
Industrial Zone
Solid Waste Disposal Site
Jail
Mini Stadium | Existing Features
Fire Service
Police Station
Post Office | Administrative Boundary
Pourashava Boundary
Union Boundary |
|--|---|--|--|---|---|



STRUCTURE PLAN

Strategic Zoning	Area(Acre)	Percentage
Agriculture	8816.409	25.92
Circulation Network	300.109	0.88
Main Flood Flow Zone	781.495	2.30.
Restricted Special	1297.439	3.81
Rural Settlement	7442.289	21.88
Sub Flood Flow Zone	2918.378	8.58
Urban Settlement	3193.843	9.39
Water Supply Protection Zone	539.021	1.58
Water Body	8723.227	25.64
Total	34012.21	100.00

Road Category	Existing Width (ft)	Proposed Width (ft)	Length (Km)
Regional Road	19.68	80	16.28
Primary Road A	18.67	60	15.73
Primary Road B	18	50	8.06
Secondary Road	12	30	8.12

PROPOSED FEATURES FOR UPAZILA

Strategic Proposal	Location	Mauza Name	Area (acre)
Upazila Stadium	Dohar Pourashava(Ward No 4)	Nurpur	20
Bus Terminal	Narisha, Roypara	Meghula Charrup	1.56
Truck Terminal	Noyabari, Kushumhati, Muksudpur, Roypara, Sutarpara, Dohar Pourashava(Ward No.04)	Dhor Lotakhola Kharia Muksudpur Kushumhati Dakshin bahra	3.58
Housing Estate	Dohar Pourashava (Ward No. 5,6,7)	Joypara	150

Industrial Zone	Roypara, Kushumhati, Dohar Pourashava(Ward no 4), Muksudpur	Lotakhola Bethua Bara Ekrashi Char Balia	150
Tourism Zone	Mahmudpur, Kushumhati	Char Baita	35

Hospital with ICU and CCU Facility	Dohar Pourashava(Ward No 2)	Joypara	20
Food Godown	Dohar Pourashava(Ward No.4)	Lotakhola	0.5
C old Storage	Dohar Pourashava(Ward No.4)	Lotakhola	0.5
Central Mosque	Dohar Pourashava(Ward No.4)	Joypara	0.5
Amusement Park	Dohar Pourashava(Ward No.09)	Kazir Char	20
Common Examination Hall	Dohar Pourashava(Ward No.01)	Lotakhola	0.3
Fisheries and fish processing center	Narisha	Shimulia	10
ICT Park	Dohar Pourashava(Ward No.4,5)	Joypara	2.5
Jail	Dohar Pourashava (Ward No.7)	Ghata	15

Low Cost Housing	Dohar Pourashava(Ward No.6)	Ghata	70
Public Toilet	Dohar Pourashava(Ward No.5)	Joypara	.05
Shilpokola Academy	Dohar Pourashava (Ward No.4)	Joypara	0.5
Sludge Treatment Plant	Dohar Pourashava (Ward No.4)	Nurpur	1
Slaughter House	Dohar Pourashava(Ward No.7)	Ghata	0.3
Vocational Training	Dohar Pourashava (Ward No.4)	Joypara	5
Youth Center	Dohar Pourashava (Ward No.1)	Lotakhola	.20
Solid Waste Disposal Site	Dohar Pourashava (Ward No.6)	Isufpur	12.86

PROPOSED IMPORTANT
FEATURES FOR UPAZILA

Type	Location
Proposed Primary School	Dohar Pourashava (Ward No. 1, Ward No. 2, Ward No. 3, Ward No. 4, Ward No. 5, Ward No. 8)
	Roypara Union
	Kushumhati Union
	Noyabari Union
	Mahmudpur Union
	Bilashpur Union
	Narisha Union
	Muksudpur Union
	Sutarpara Union

Type	Location
Proposed Wholesale Market	Dohar Pourashava (Ward No.06)
	Noyabari Union
	Muksudpur Union

Type	Location
Proposed College	Dohar Pourashava (Ward No. 8, Ward No. 9)
	Roypara Union
	Kushumhati Union
	Noyabari Union
	Mahmudpur Union
	Bilashpur Union
	Narisha Union
	Muksudpur Union
	Sutarpara Union

Type	Location
Proposed Community Clinic	Dohar Pourashava (Ward No.6)
	Roypara Union
	Kushumhati Union
	Noyabari Union
	Mahmudpur Union
	Bilashpur Union
	Narisha Union
	Muksudpur Union
	Sutarpara Union

PROPOSED IMPORTANT FEATURES FOR UPAZILA

Type	Location
Proposed Community Center	Dohar Pourashava (Ward No.7)
	Roypara Union
	Kushumhati Union
	Noyabari Union
	Mahmudpur Union
	Bilashpur Union
	Narisha Union
	Muksudpur Union
	Sutarpara Union

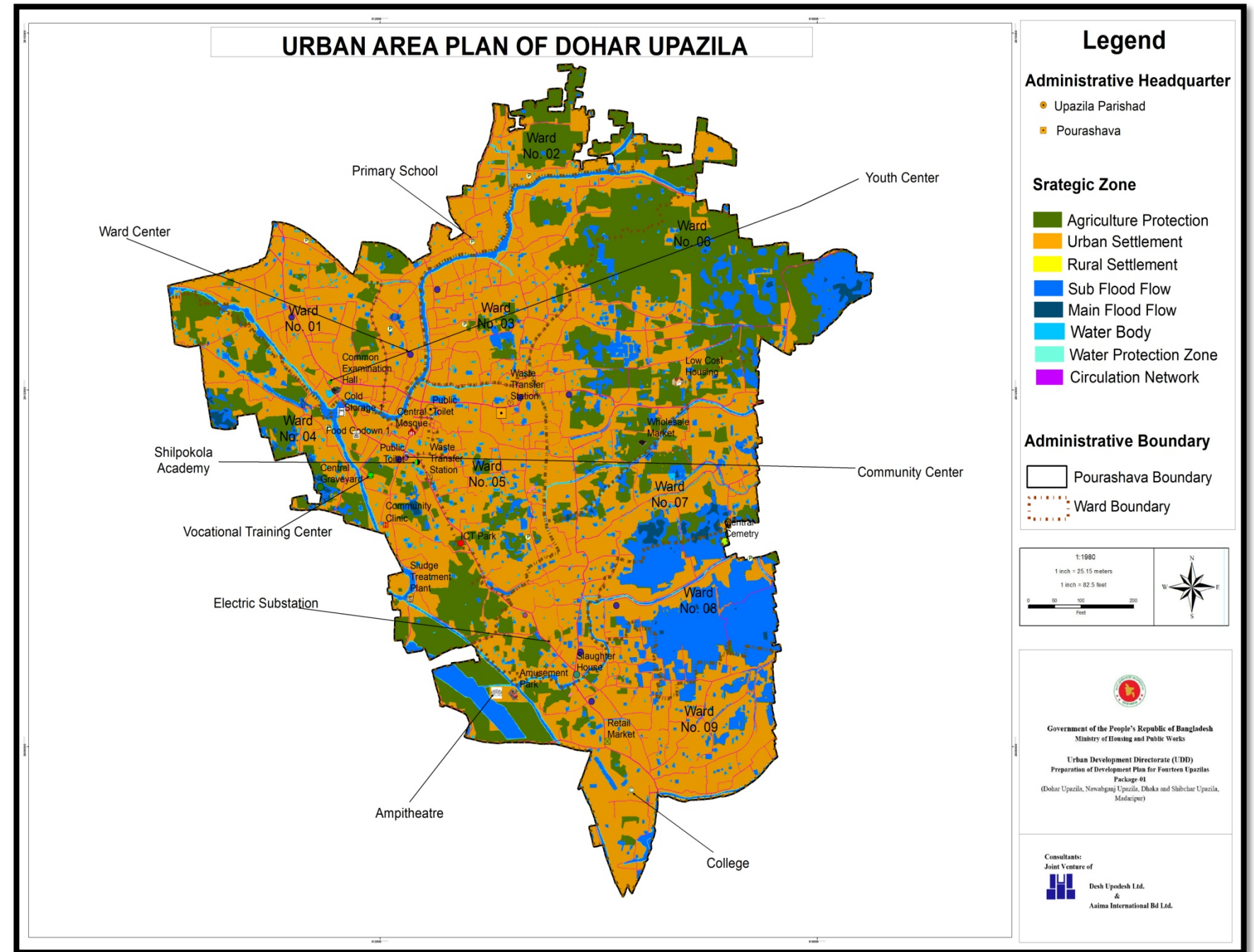
Type	Location
Proposed Waste Transfer Station	Dohar Pourashava (Ward No.4, Ward No. 5)
	Roypara Union
	Kushumhati Union
	Noyabari Union
	Mahmudpur Union
	Bilashpur Union
	Narisha Union
	Muksudpur Union
	Sutarpara Union

Type	Location
Proposed Neighborhood Park	Dohar Pourashava (Ward No.1, Ward No. 9)
	Roypara Union
	Kushumhati Union
	Noyabari Union
	Mahmudpur Union
	Bilashpur Union
	Narisha Union
	Muksudpur Union
	Sutarpara Union

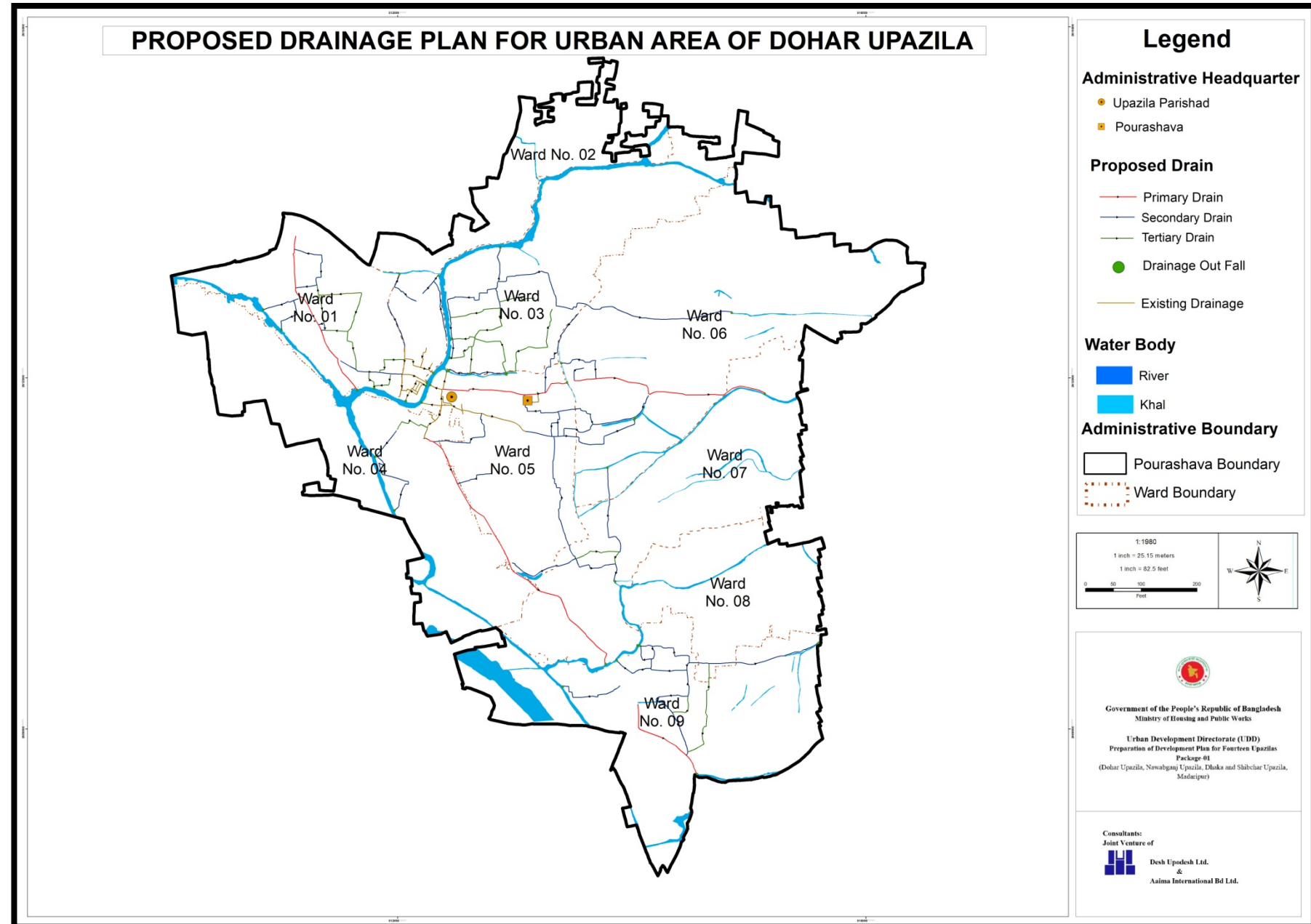
Type	Location
Proposed Electric Sub-station	Dohar Pourashava (Ward No.4, Ward No. 7)
	Roypara Union
	Kushumhati Union
	Noyabari Union
	Mahmudpur Union
	Bilashpur Union
	Narisha Union
	Muksudpur Union
	Sutarpara Union

URBAN AREA PLAN

URBAN AREA PLAN



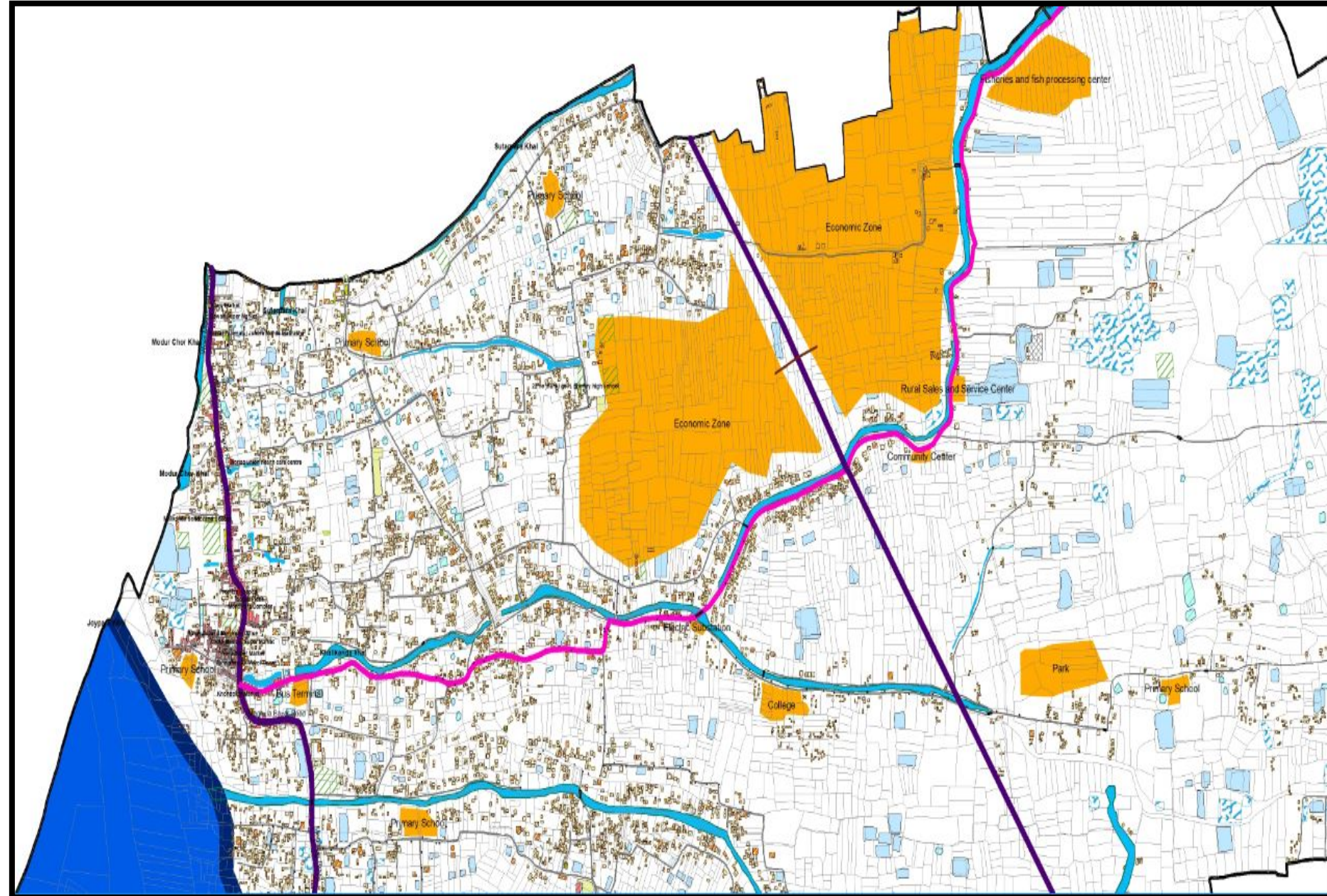
PROPOSED DRAINAGE NETWORK MAP



RURAL AREA PLAN

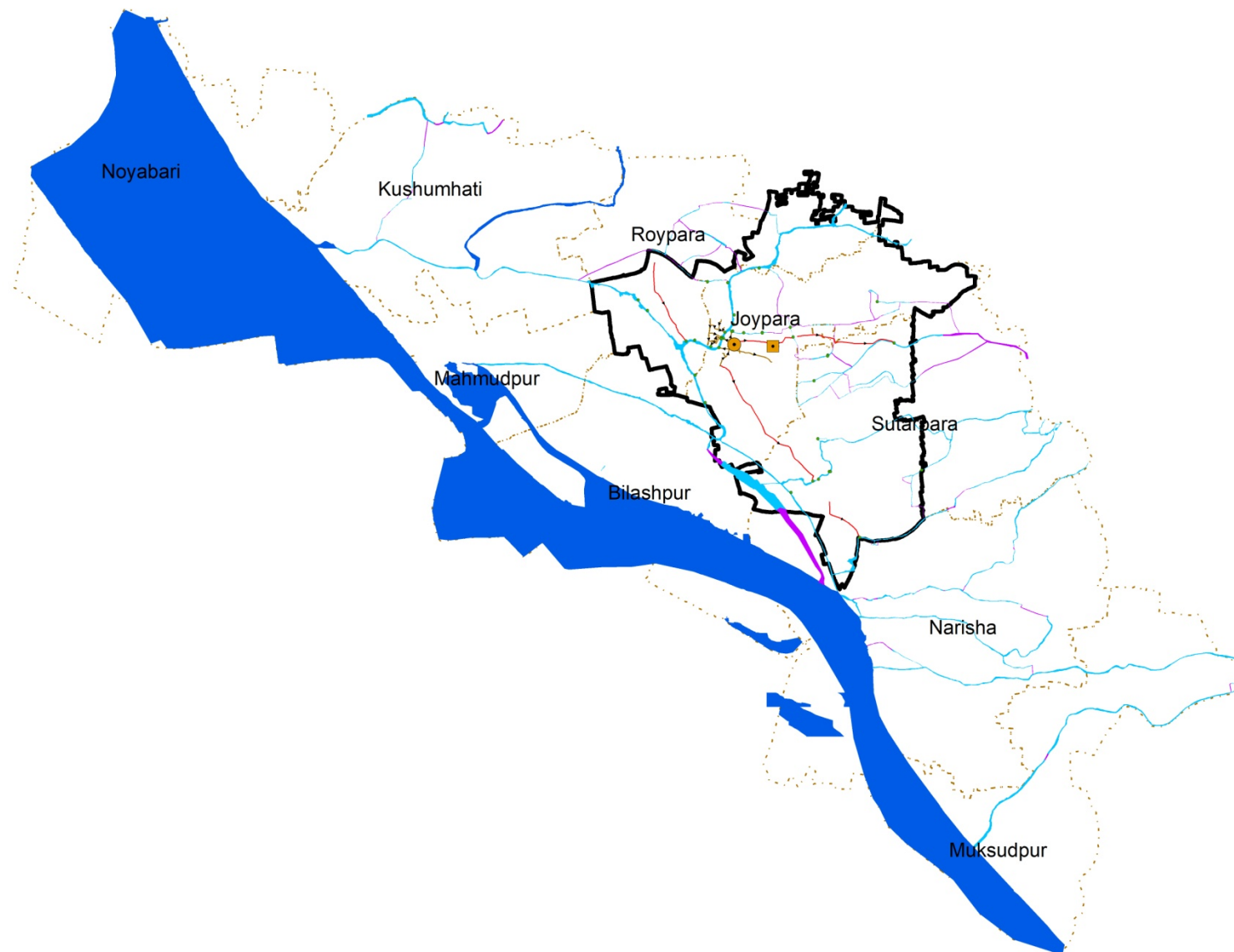
Proposed Feature Map of Narisha Union

RURAL AREA PLAN



PROPOSED NATURAL DRAINAGE NETWORK MAP

PROPOSED NATURAL DRAINAGE PLAN OF DOHAR UPAZILA



Legend

Administrative Headquarter

- Upazila Parishad
- Pourashava

Proposed Drain

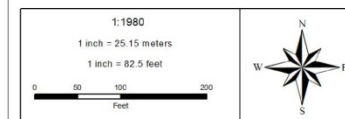
- Primary Drain
- Existing Drainage
- Proposed Natural Drainage

Water Body

- River
- Khal

Administrative Boundary

- Pourashava Boundary
- Ward Boundary



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, Dhaka and Shibchar Upazila, Madaripur)

Consultants:
Joint Venture of



Desh Upadesh Ltd.
&
Asima International Bd Ltd.

ACTION AREA PLAN

TOURIST SITE PLAN



TOURIST SITE DEVELOPMENT (MOINOT GHAT)

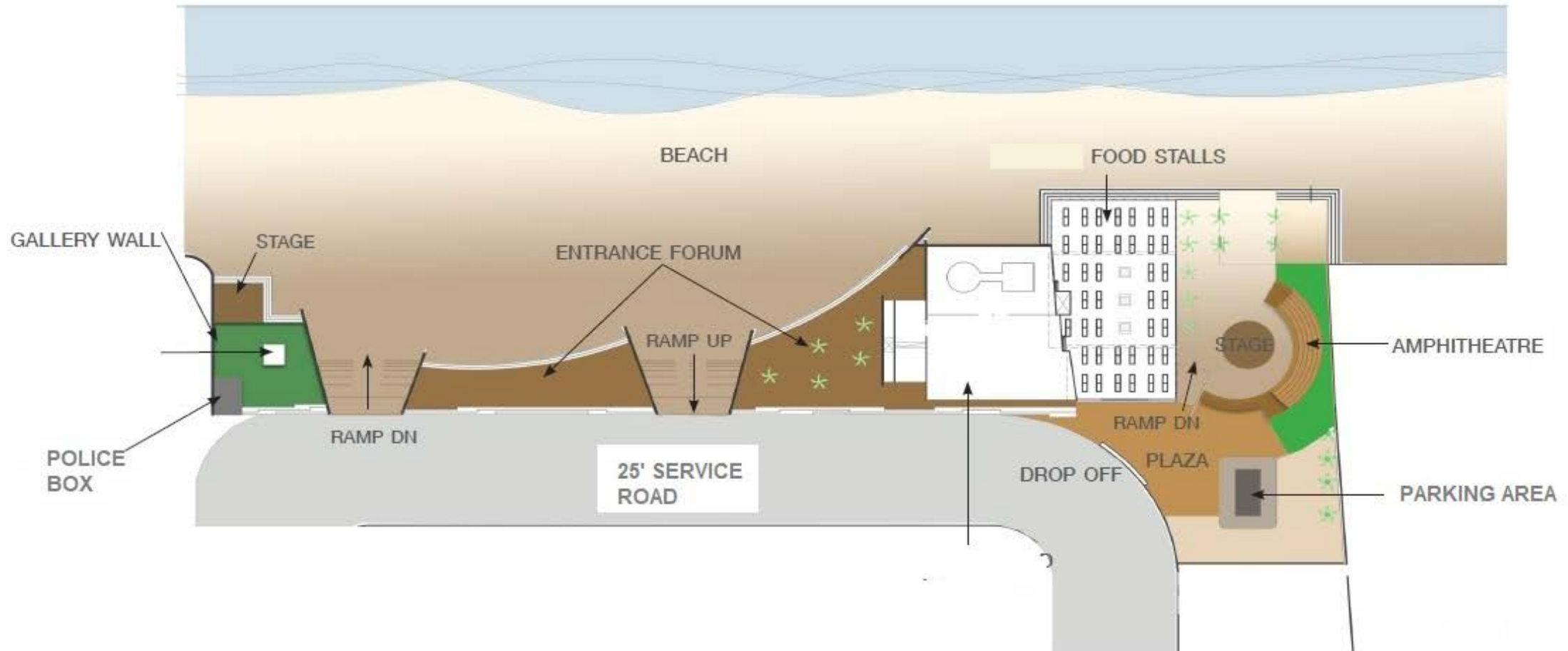


Legend

	5 Star/ 3 Star Hotel
	Bazar Area or Local Market
	Cafe & Restaurant
	Cinema Hall and Children Zone
	Convention Center
	Landscaped Gardens and Clinic/Health Center
	Library
	Mosque
	Police Station
	Watch Tower

SCALE 1:1000

Development point A



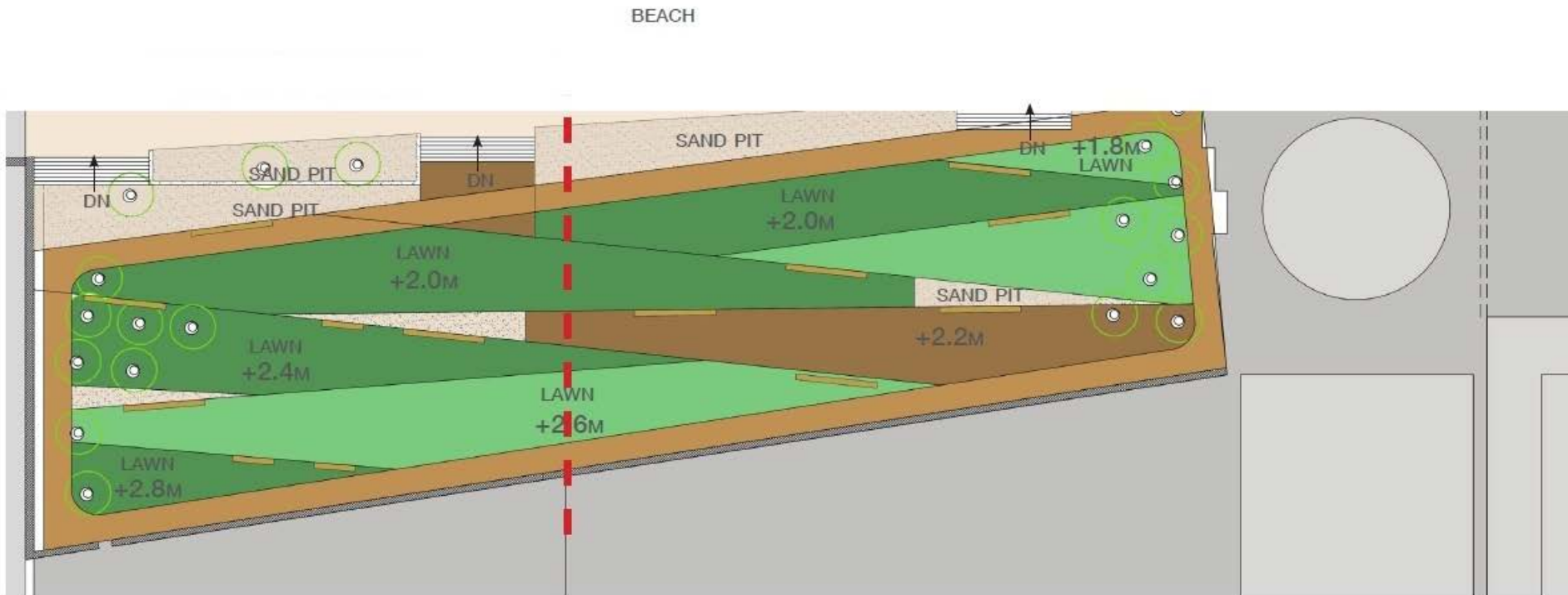




Development point B (Children's' Park)

REDEVELOPMENT PLAN- KEY FEATURES

1. OPENING UP GARDEN TOWARDS BEACH
2. SECURITY



Development point C (Walkers Park)

WALKER'S PARK

REDEVELOPMENT PLAN- KEY FEATURES

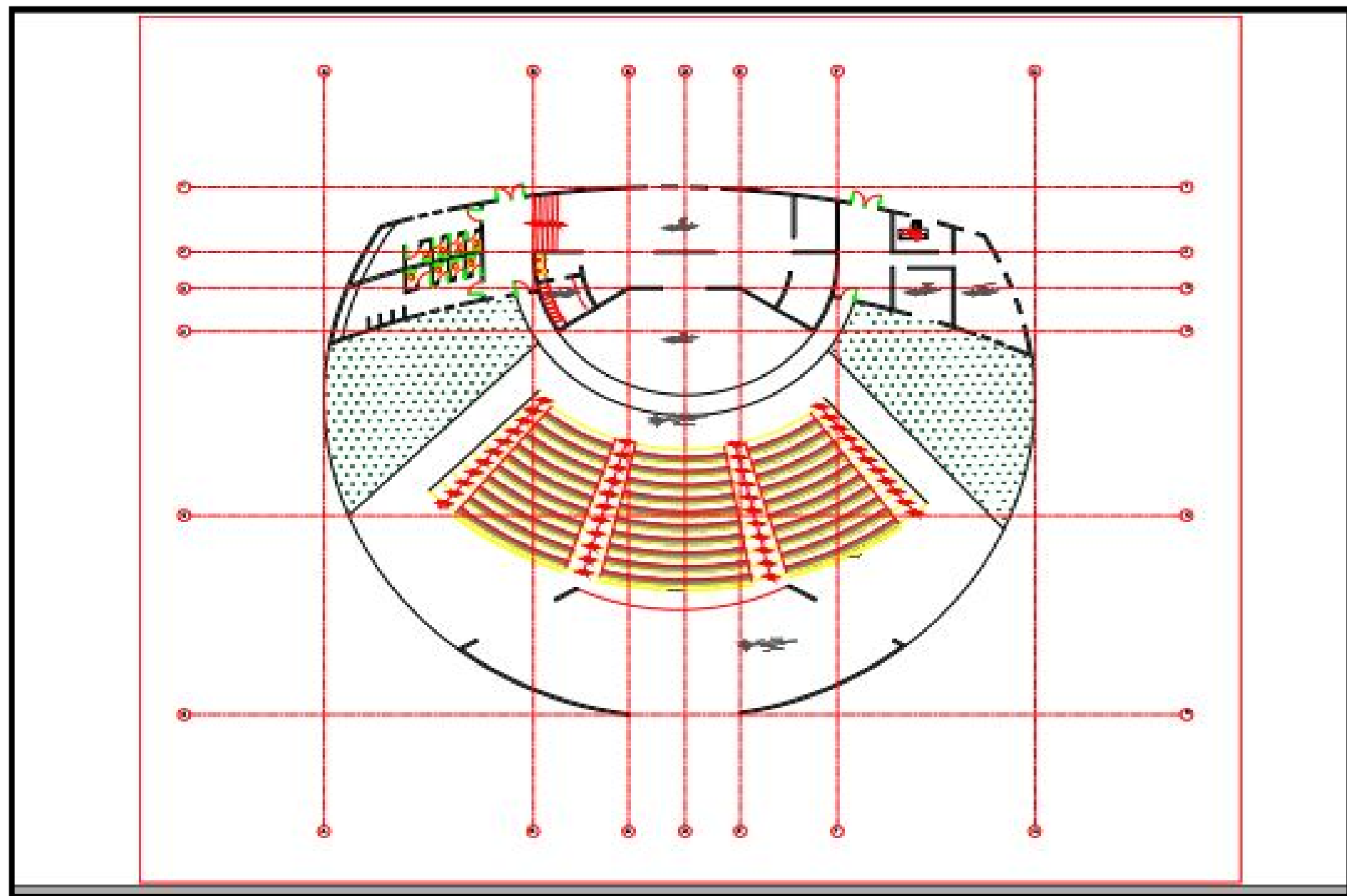
1. MAINTENANCE
2. LIGHTING
3. DEFINE GARDEN ENTRANCE
4. CHECK ILLEGAL DUMPING OF DEBRIS

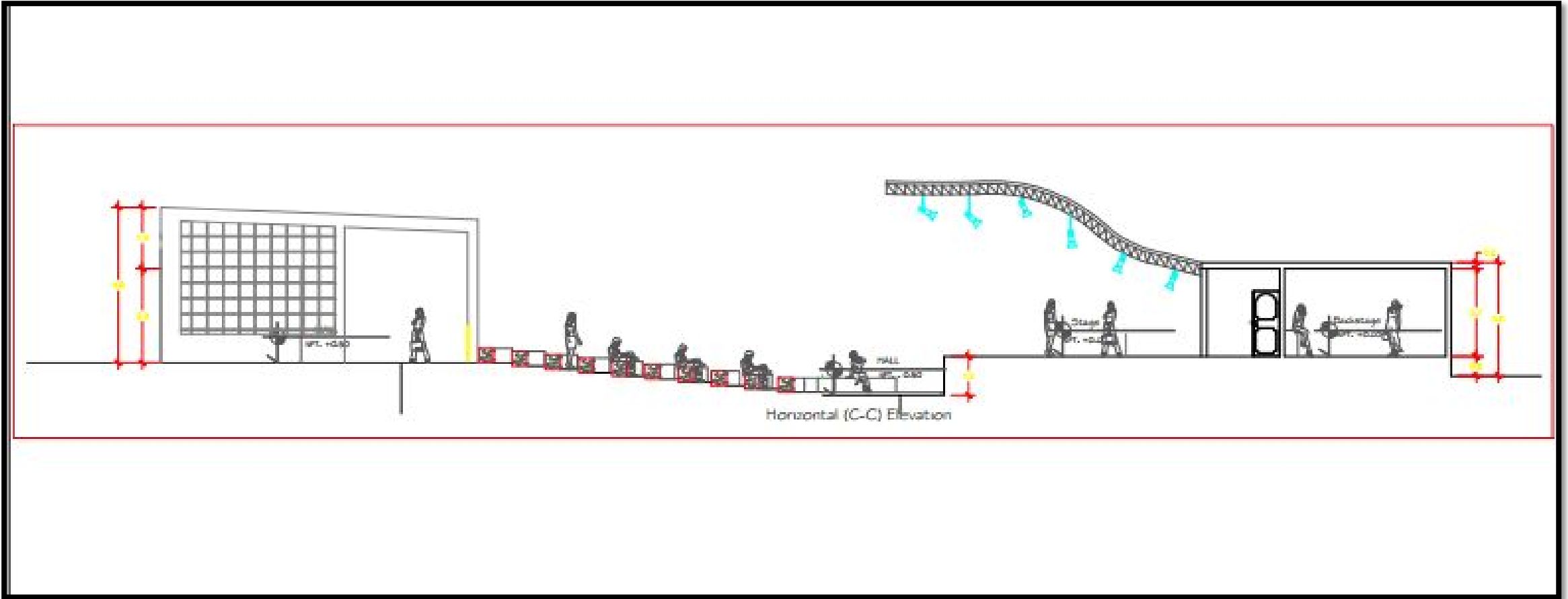


Proposed Boardwalk



AMPHITHEATRE







Vertical (Front) Elevation 4 - 4

