



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

Technical Presentation of Preparation of Development Plan for Fourteen Upazilas Project

Presented by
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Presentation Outline

1. Project Brief
2. Objectives of the Project
3. Location of Project Area & their Characteristics
4. Conceptualization & Methodology
5. Rapport Building & People's Participation
6. Major Surveys, their Modalities and Outputs
7. Thematic Maps and Suitability Maps
8. 5-tier Plan of 14 Upazilas



Example: Package-01

Project Brief

- Name: Preparation of Development Plan for Fourteen Upazilas
- Organization: Urban Development Directorate (UDD)
- Ministry: Ministry of Housing and Public Works
- Funding: Government of Bangladesh
- Upazilas: 14
- Planning Area: 4335.83 Sq.Km.
[Urban: 218.82 Sq.Km. (5.05%), Rural: 4117.01 Sq.Km. (94.95%)]
- Existing Beneficiary: 38,64,195 [Urban: 5,04,525 (13%), Rural: 33,59,670 (87%)]
- Projected Beneficiary (2033): 57,96,292
- Project Period: June 2013 to June 2018
- Project Budget: 2054.44 Lakh (GoB)

Objective (s) of the Project:

- To **guide the land use transformation** in an integrated and harmonic manner with a view to accelerate the economic and socio- political development of the project area.
- To **protect the most valuable agricultural land** from any other unplanned transformation
- To **allow the towns to play their active socio-economic role** within the Physical Planning, agriculture, transportation, drainage, water Supply, housing and other important relevant sectors
- To **reduce disaster risk and vulnerability** of the people of the project area through structure and non-structural interventions
- To **improve awareness** of natural and man-made hazard mitigation among the people of project area.
- To formulate 5-tier Plan (Sub-regional plan, Structure plan, Urban area plan, Rural area Plan and Action area plan) **for development planning of the project area**, additionally
- To **formulate Contingency Plan** for fourteen upazilas

Map: Location of 14 Upazilas and their Characteristics

Package-4 (Saghata, Sonatola, Sariakandi)

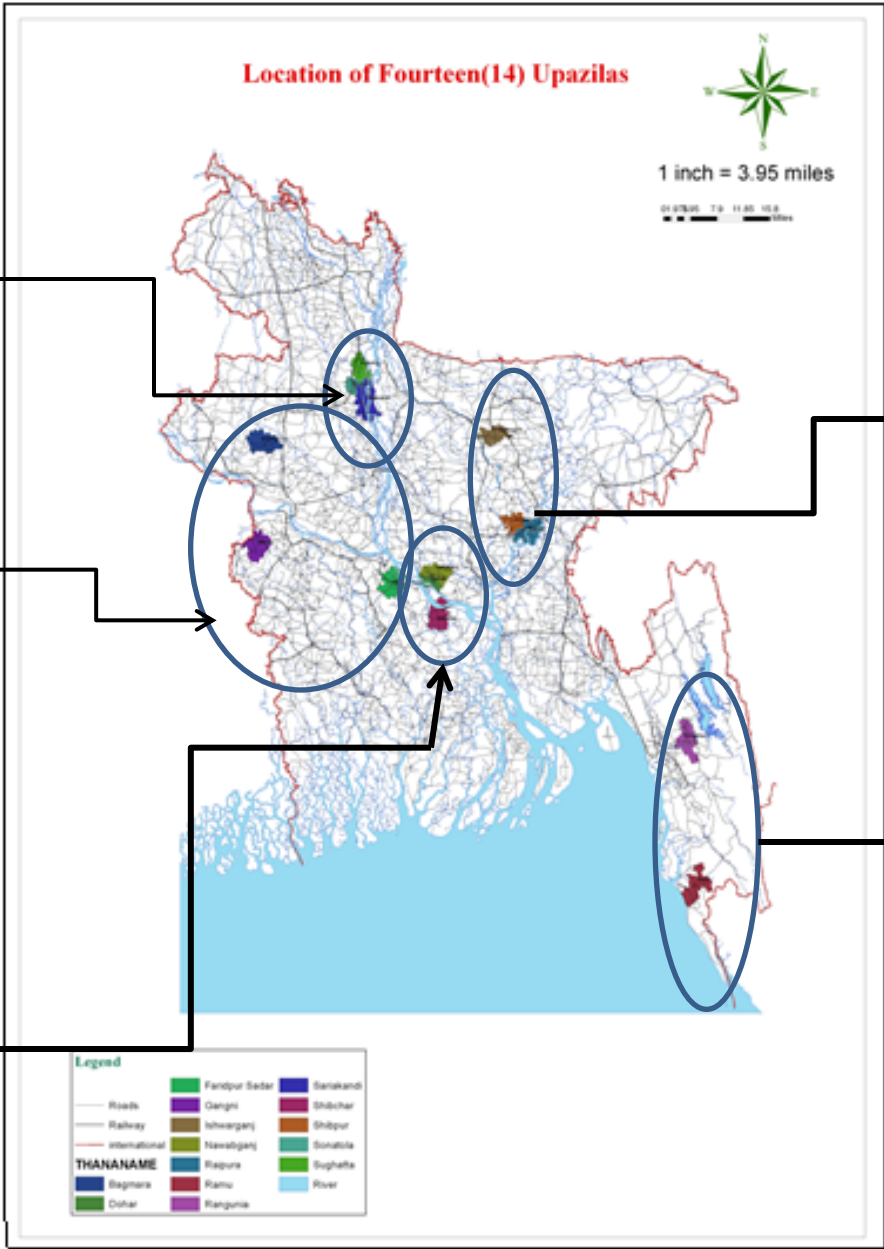
- Flood Prone Area
- Adjacent to Mighty Jamuna River
- Potential Char Land
- Potential Agriculture Area

Package-3 (Bagmara, Gangni, Faridpur Sadar)

- Mixed Characteristics
- Pond Excavation
- Border Upazila
- Potential Agriculture Area
- Tentative New Divisional Head Quarter

Package-1 (Dohar, Nawabganj, Shibchar)

- Adjacent to Dhaka City
- Padma Bridge impacted\ affected area
- River erosion affected area
- Potential for Industrial/Service Development



Package-2 (Ishwarganj, Shibpur, Raipura)

- Mostly Flood Free Area
- Adjacent to National Highway
- Highly Potential for Agriculture

Package-5 (Rangunia, Ramu)

- Hilly Area
- Flash Flood, Land Slide
- Potential for Tourism
- Good Agriculture on valley area

Number of Planning Packages under this Project:

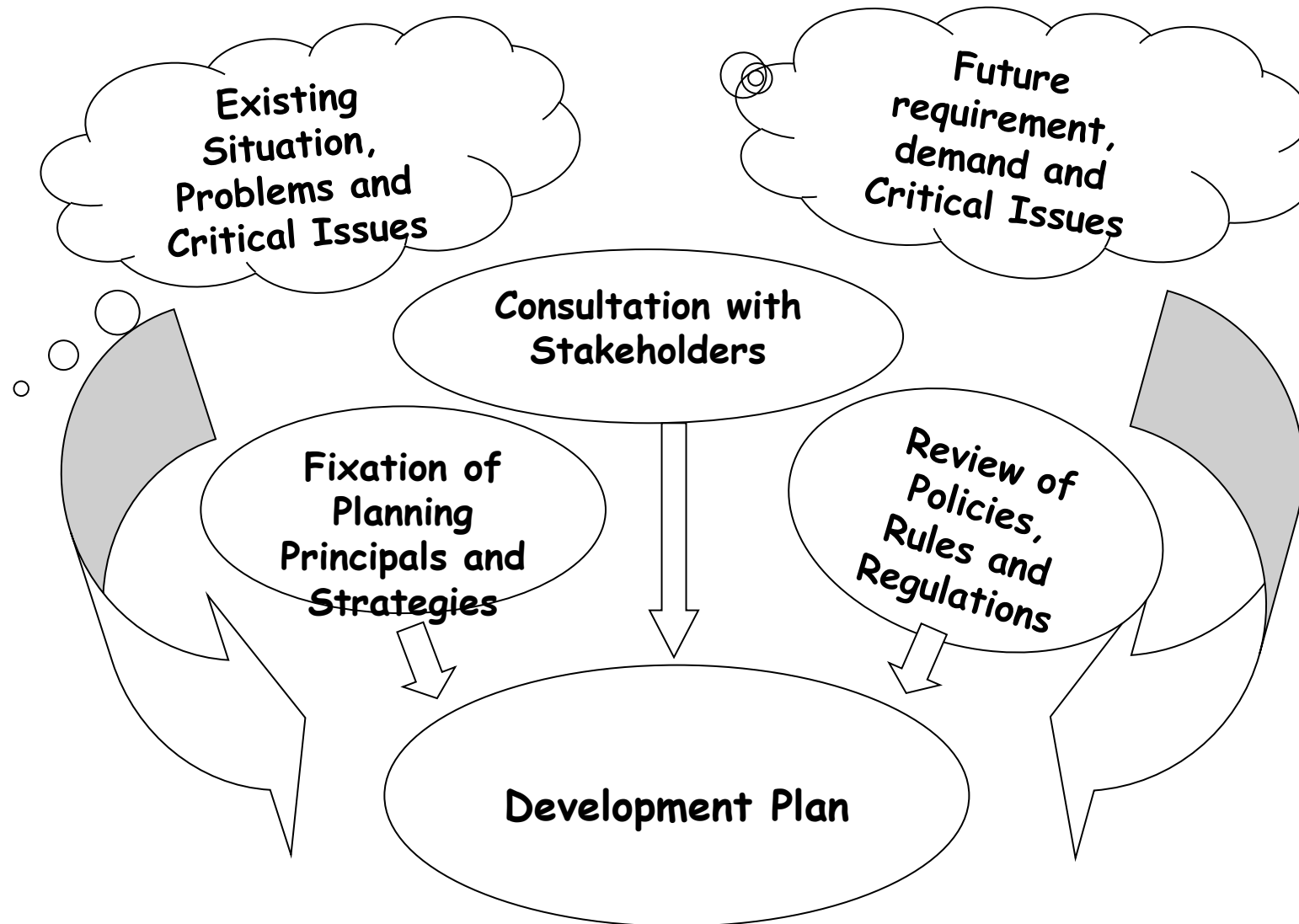
| Sl. No. | Packages | Name of upazilas | Consulting Firms assigned |
|---------|-----------|---------------------------------|---|
| 1. | Package-1 | Nawabganj, Dohar, Shibchar | Desh-Upodesh in Association with AAima Int. BD & Texus Ltd. |
| 2. | Package-2 | Ishwarganj, Raipura, Shibpur | JV of Sheltech (Pvt.) Ltd & Arc Bangladesh Ltd. |
| 3. | Package-3 | Bagmara, Faridpur sadar, Gangni | Engineers, Consultants and Associates Ltd. (ECAL) |
| 4. | Package-4 | Saghatta, Sonatota, Sariakandi | Modern Engineers, Planners & Consutants Ltd. |
| 5. | Package-5 | Ramu, Rangunia | JV of House of Consultants and Dm-Watch |

Planning Area and Number of Beneficiary:

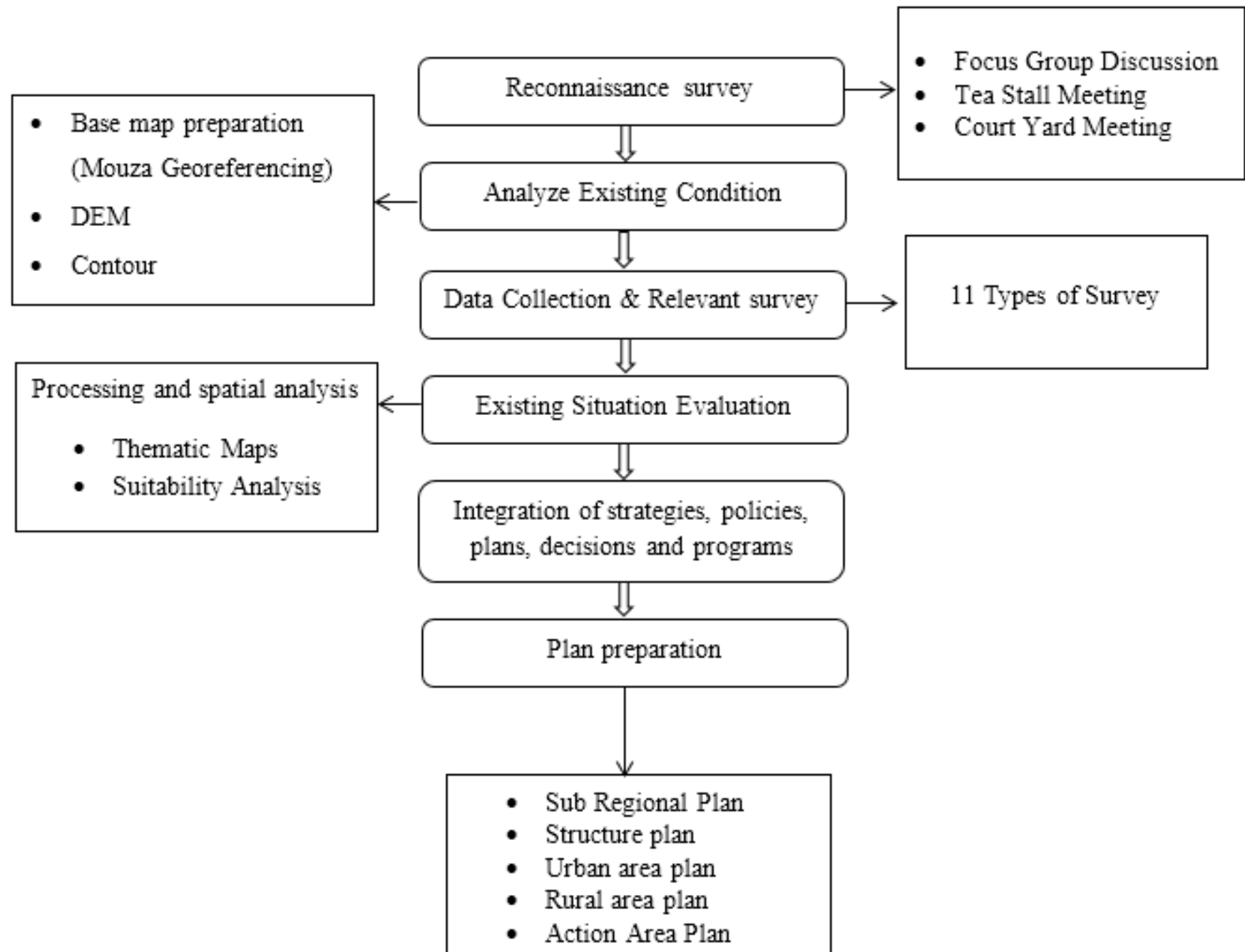
| Sl. No. | Name of District | Name of upazila | Planning Area (sq.km) | Urban area | Rural area | Urban Population | Rural Population | Total Existing Beneficiary |
|--------------|------------------|-----------------|-----------------------|---------------|----------------|------------------|------------------|----------------------------|
| 1 | Dhaka | Nawabganj | 244.8 | 1.76 | 243.04 | 77590 | 410438 | 488028 |
| | | Dohar | 161.49 | 20.31 | 141.18 | 61793 | 129630 | 191423 |
| 2 | Chittagong | Rangunia | 361.54 | 37.08 | 324.46 | 53035 | 245335 | 298370 |
| 3 | Cox bazar | Ramu | 391.71 | 22.03 | 369.68 | 33334 | 169349 | 202683 |
| 4 | Rajshahi | Bagmara | 363.3 | 26.58 | 336.72 | 34632 | 285336 | 319968 |
| 5 | Faridpur | Faridpur | 407.02 | 23.45 | 383.57 | 101084 | 312401 | 413485 |
| 6 | Mymensingh | Ishwarganj | 286.19 | 15.82 | 270.37 | 30948 | 307132 | 338080 |
| 7 | Madaripur | Shibchar | 321.88 | 17.02 | 304.86 | 27877 | 296561 | 324438 |
| 8 | Narsingdi | Shibpur | 232.47 | 3.52 | 228.95 | 10426 | 303394 | 313820 |
| | | Raipura | 408.45 | 13.49 | 394.96 | 34411 | 420135 | 454546 |
| 9 | Bogra | Sariakandi | 432.6 | 3.58 | 429.02 | 17320 | 222763 | 240083 |
| | | Sonatala | 156.73 | 4.94 | 151.79 | 11405 | 156142 | 167547 |
| 10 | Gaibanda | Saghata | 225.67 | 6.38 | 219.29 | 15549 | 234720 | 250269 |
| 11 | Meherpur | Gangni | 341.98 | 22.86 | 319.12 | 23846 | 245239 | 269085 |
| Total | | | 4335.83 | 218.82 | 4117.01 | 504525 | 3359670 | 38,64,195 |

Projected Beneficiary (2033): **57,96,292** (Approx.)

Conceptualization of Development Plan Preparation



Methodology



Project Area of Package-1

| Upazila | Area | Sq.km | Total Sq.km |
|--------------------------------|-------|--------|-------------|
| Dohar Upazila, Dhaka | Urban | 20.31 | 161.49 |
| | Rural | 141.18 | |
| Nawabganj Upazila, Dhaka | Urban | 6.58 | 246.82 |
| | Rural | 240.24 | |
| Shibchar Upazila, Madaripur | Urban | 8.75 | 321.88 |
| | Rural | 313.13 | |

Project Phases

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 Courtyard Meeting- 9 No. of Tea Stall Meeting-12 No. of FGD- 21 | |
| 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) ▪ Nawabganj: 14 Unions ▪ Shibchar: 19 Unions and 9 Poura Wards ▪ 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, Nawabganj-16, Shibchar-18 |
| 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, Nawabganj- 190, Shibchar- 194 |

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 | |

Focus Group Discussion and Tea Stall Meetings (Dohar, Nawabganj and Shibchar)

| | |
|---------------------------|--------------------------|
| No. of FGD | 21 |
| Date | 11/08/2015 to 25/08/2015 |
| No. of Participants | 12 to 24 persons |
| No. of Tea Stall Meetings | 12 |
| Date | 12/08/2015 to 22/08/2015 |
| No. of Participants | 24 to 44 persons |
| No. of Courtyard | 9 |
| Date | 12/08/2015 to 22/08/2015 |
| 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**
- Sample households of Socio-economic Survey in **Nawabganj** Upazila
 - No. of Sample Households in **Township Area: 68**
 - No. of Sample Households in **Unions: 942**
- Sample households of Socio-economic Survey in **Shibchar** Upazila
 - No. of Sample Households in **Wards: 97**
 - No. of Sample Households in **Unions: 1003**

Geological Survey Activities

| | | |
|-----------|------------|----|
| Dohar | Borehole | 12 |
| | PS Logging | 3 |
| | MASW | 5 |
| Nawabganj | Borehole | 21 |
| | PS Logging | 3 |
| | MASW | 5 |
| Shibchar | Borehole | 24 |
| | 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)
- Nawabganj (349 samples)
- Shibchar (450 samples)



ESTABLISHMENT OF BM PILLAR

NUMBER
OF
BM
PILLARS

Dohar
14

Nawabganj
16

Shibchar
18



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 in Dohar

- No. of PRA in Unions: 8
- No. of Participants : 259
- No. of PRA in Wards : 8 (excluding Ward No.08)
- No. of Participants : 223

PRA in Nawabganj

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

PRA in Shibchar

- No. of PRA in Unions: 19
- No. of Participants: 702
- No. of PRA in Wards: 9
- No. of Participants: 292

Consultation with Stakeholders based on PRA Method

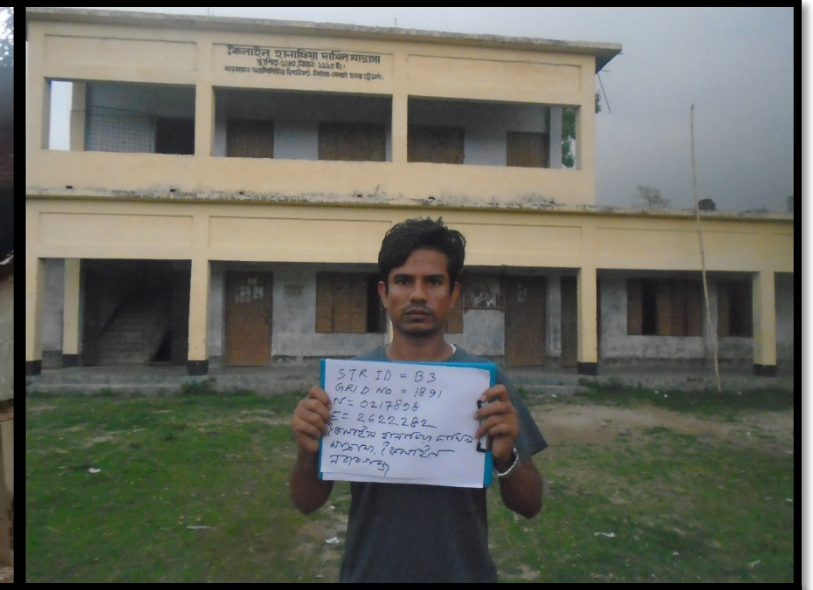
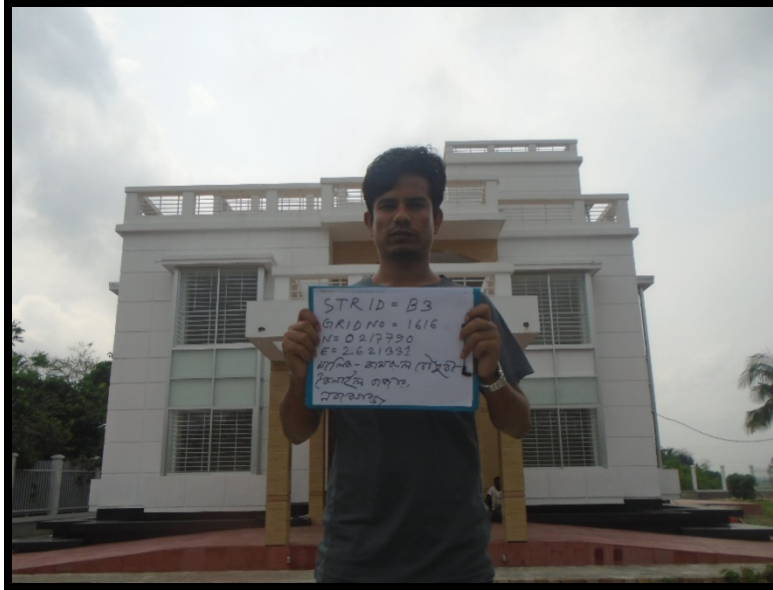


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Conducting Physical Features Survey



Building Vulnerability Assessment as per FEMA Guidelines



Field Checking & Supervision



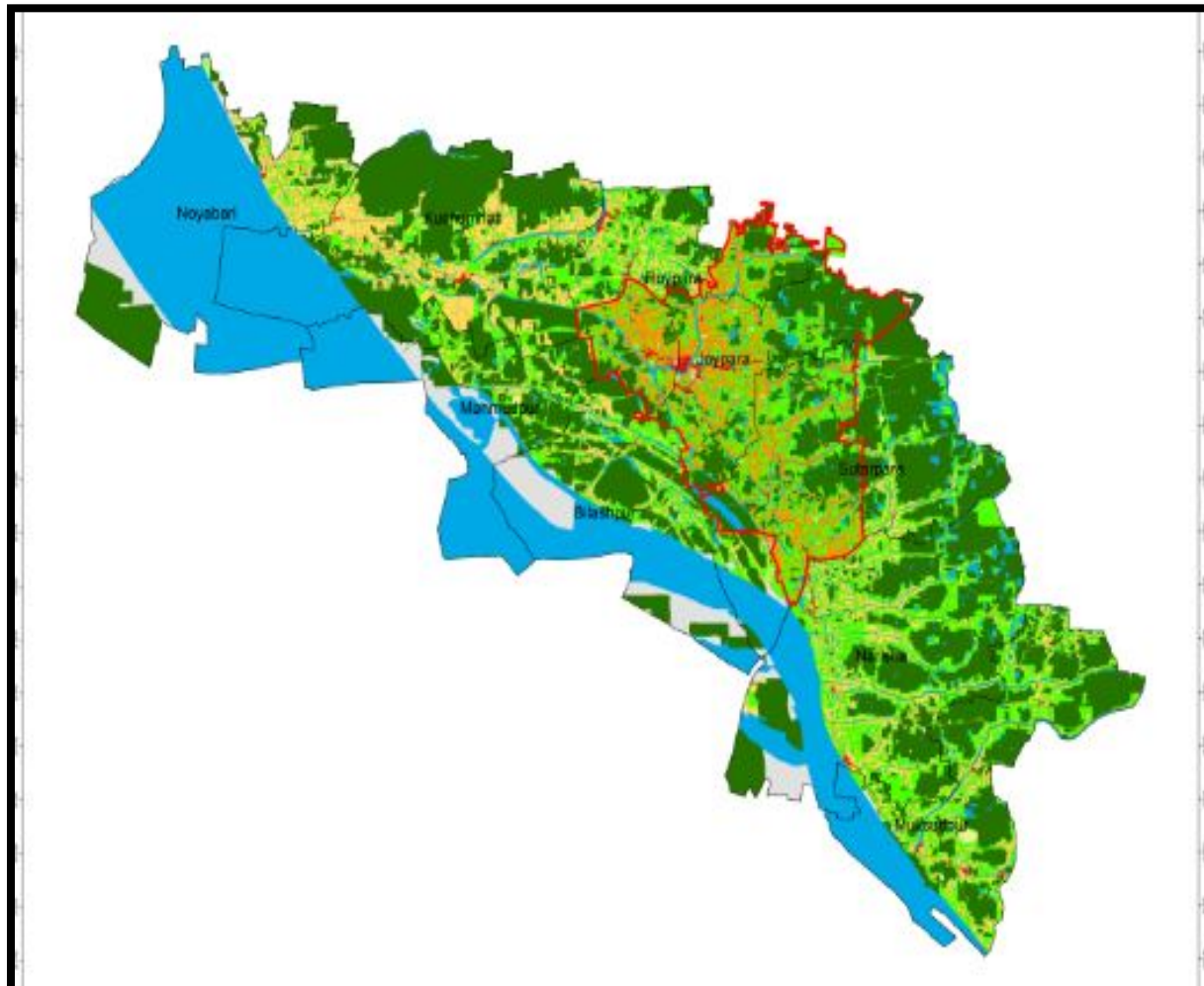
Mouza Map Digitization & Attribute Data Entry



THEMATIC MAPS OF DOHAR UPAZILA

Existing Landuse Map- Dohar Upazila

| Sl. No. | Land use Category | Existing Land use | |
|---------|----------------------|-------------------|------------|
| | | Area (acre) | % |
| 1 | Urban Residential | 1236.42 | 4.08 |
| 2 | Rural Residential | 2694 | 8.88 |
| 3 | Agricultural Zone | 12152.92 | 40.08 |
| 4 | Brick Field | 37 | 0.12 |
| 5 | Commercial | 150.75 | 0.5 |
| 6 | Char | 1101.9 | 3.63 |
| 7 | Community Facilities | 0.4 | 0.001 |
| 8 | Education | 35 | 0.12 |
| 9 | Government Services | 4.69 | 0.02 |
| 10 | Health Facilities | 1.77 | 0.005 |
| 11 | Mixed Use | 63.31 | 0.26 |
| 12 | Open Space | 198.93 | 0.60 |
| 13 | Religious | 208.4 | 0.63 |
| 14 | Transportation | 355.57 | 1.17 |
| 15 | Waterbody | 7882.83 | 26 |
| 16 | Vegetation | 4220.53 | 13.81 |
| | Total | 30321.42 | 100 |



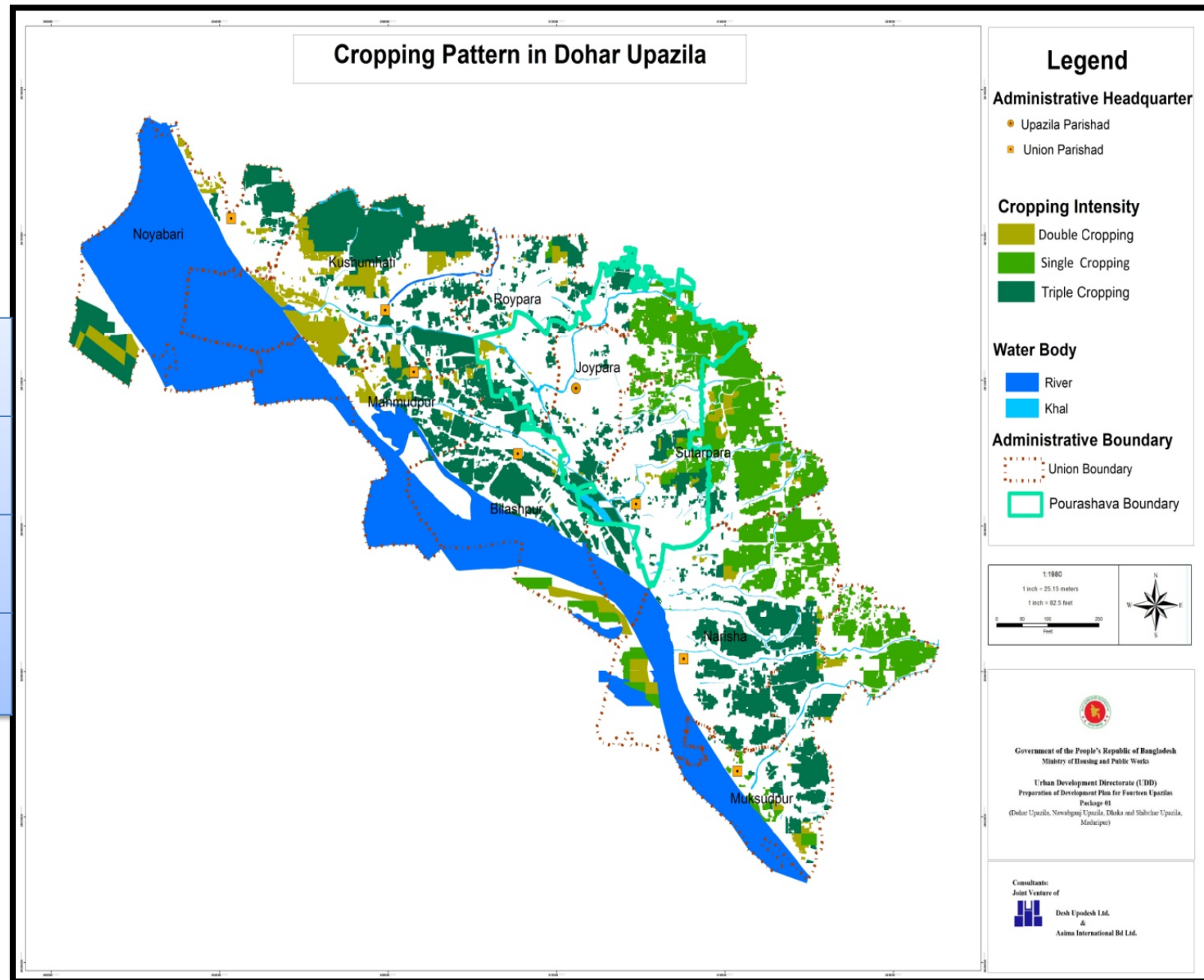
LEGEND

| | | | | |
|-------------------|-------------------------------|-------------------------|---------------------------|---------------------|
| 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: Field Survey, 2017

Cropping Intensity Map- Dohar 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 |

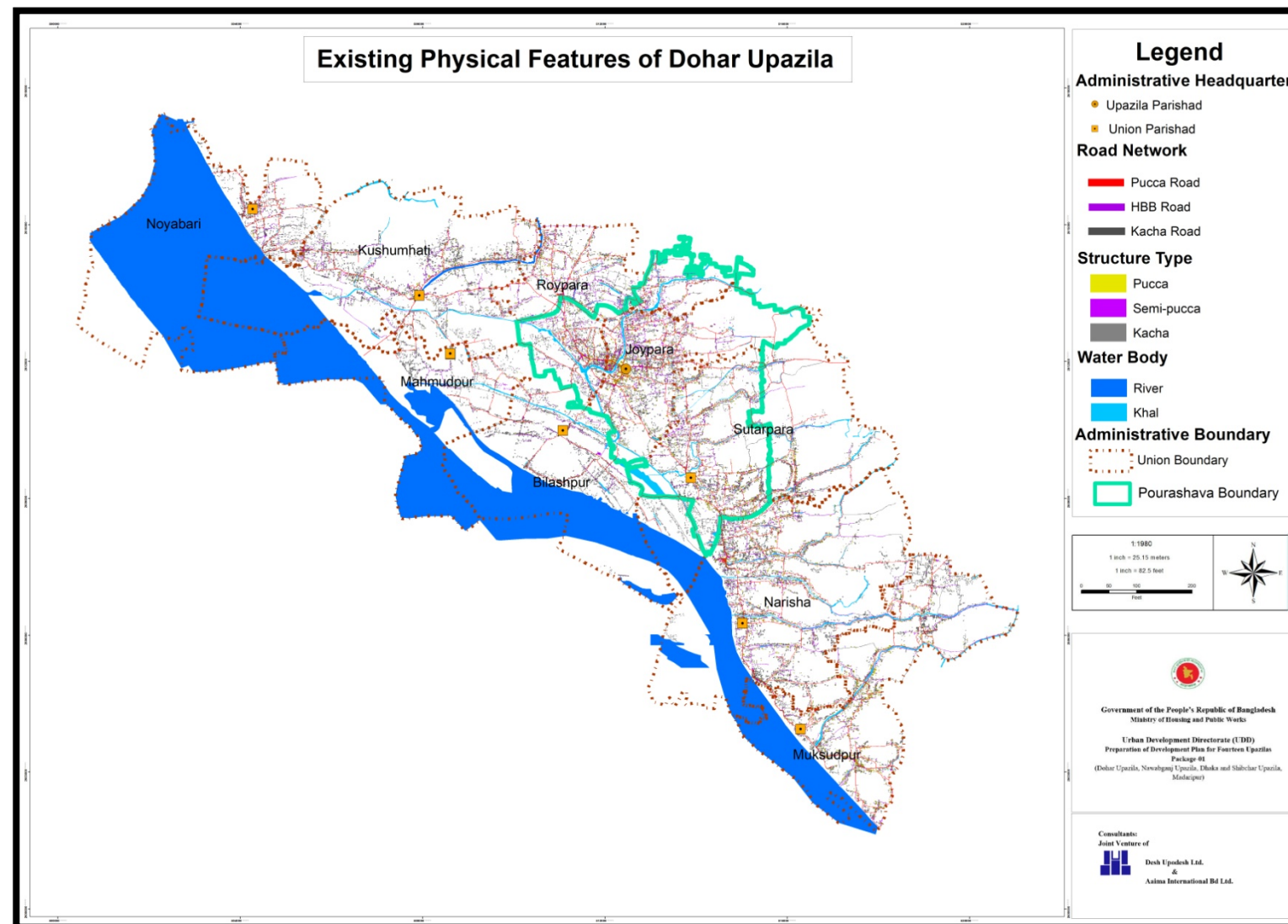


Source: Field Survey, 2017

Existing Structural Information-Dohar Upazila

| Structure Type | Number |
|----------------|--------------|
| Katcha | 46700 |
| Pucca | 7119 |
| Semi-pucca | 5809 |
| Total | 59628 |

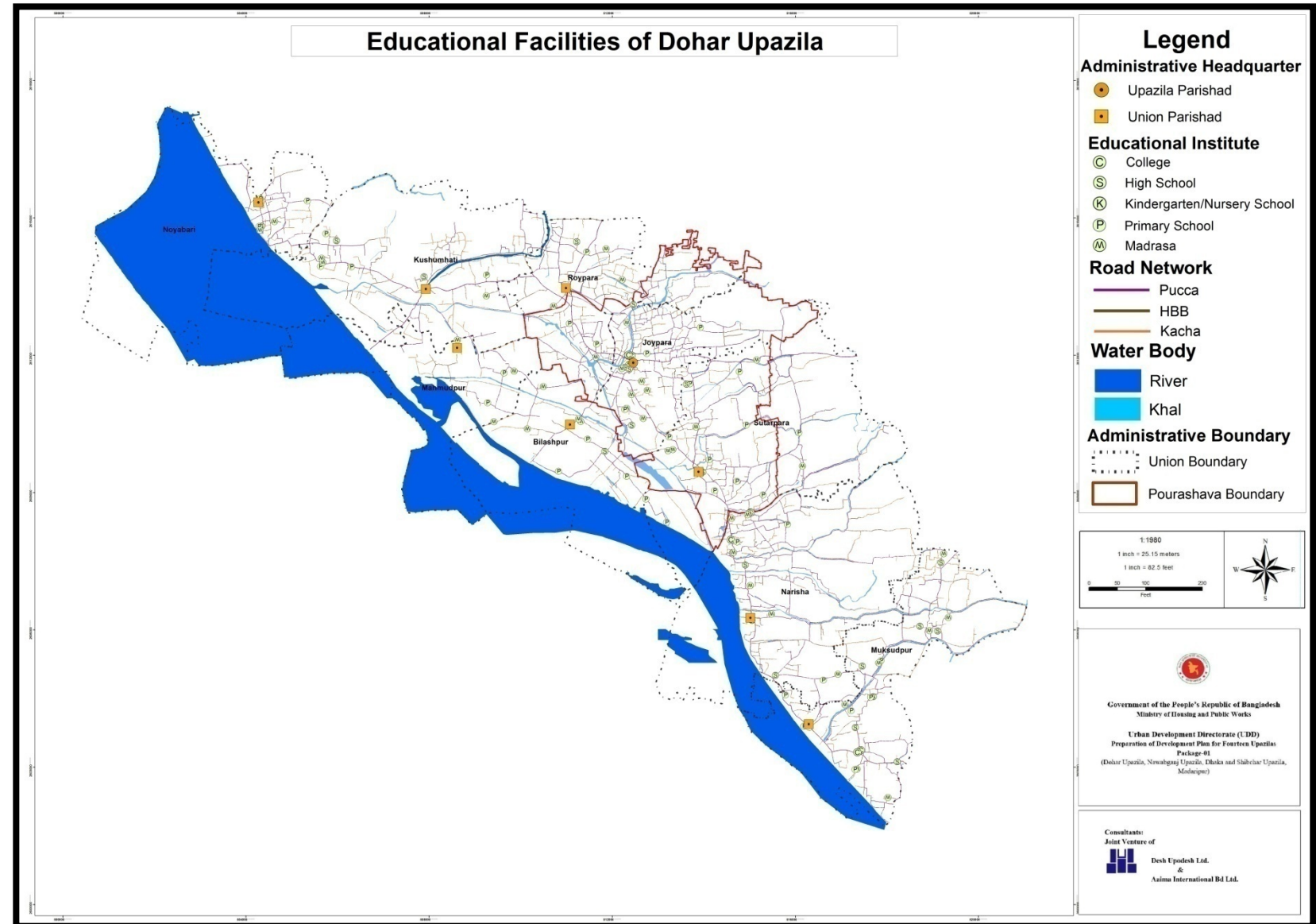
| Structure Use | Number |
|--------------------------------|--------------|
| Commercial Activities | 2913 |
| Community Facilities | 1 |
| Educational & Research | 261 |
| Government Services | 19 |
| Health Facilities | 13 |
| Recreational Facilities | 11 |
| Mixed Use | 22 |
| Religious | 328 |
| Residential | 54353 |
| Under Construction | 56 |
| Total | 57977 |
| Multi-storied Structure | 1651 |
| Risky Structure | 319 |



Source: Field Survey, 2017

Existing Educational Facilities-Dohar Upazila

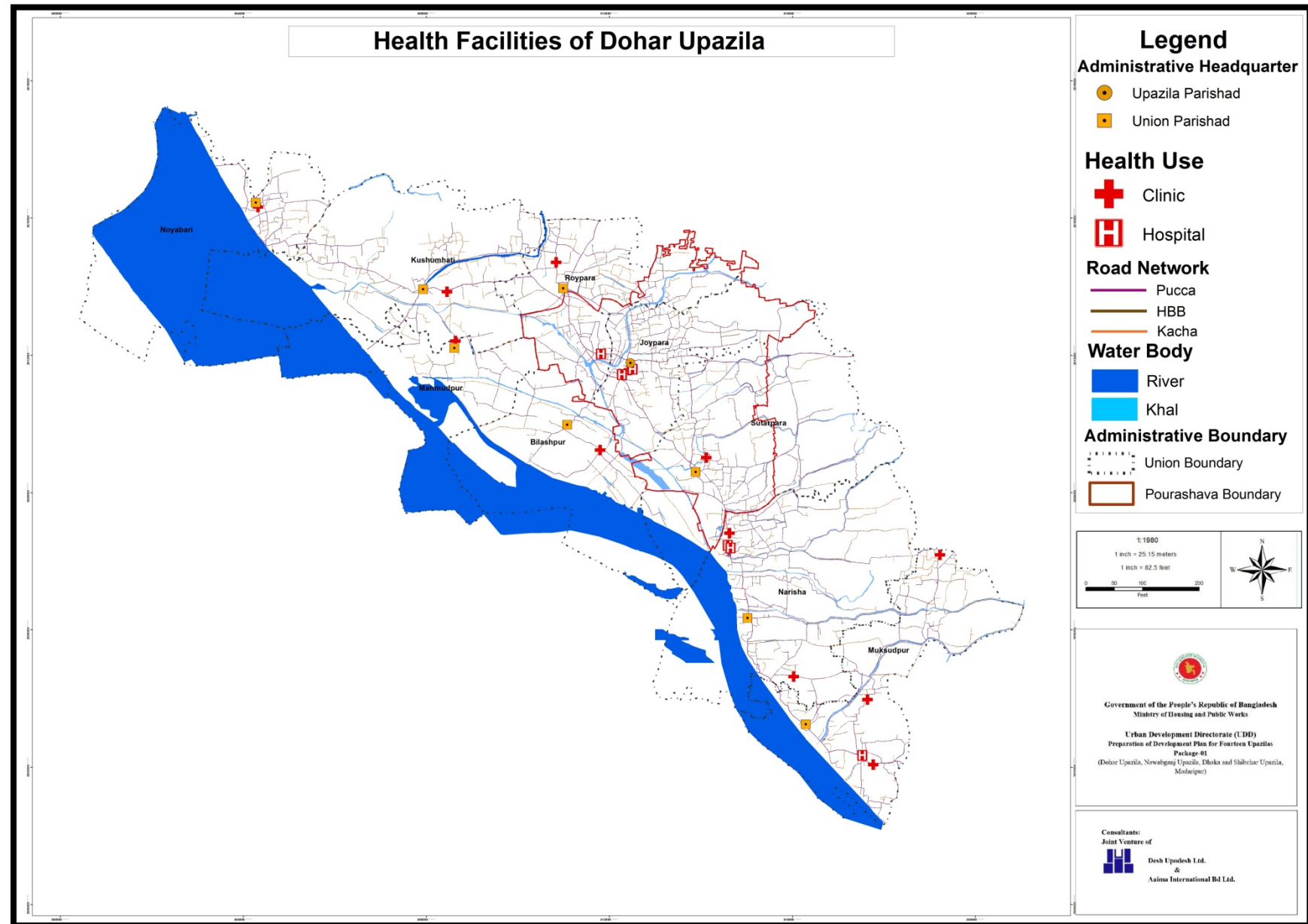
| Educational Facilities | No. of Facilities |
|-----------------------------|-------------------|
| Primary School | 38 |
| Kindergarten/Nursery School | 10 |
| High School | 25 |
| College | 6 |
| Madrasa | 45 |



Source: Field Survey, 2017

Existing Health Facilities-Dohar Upazila

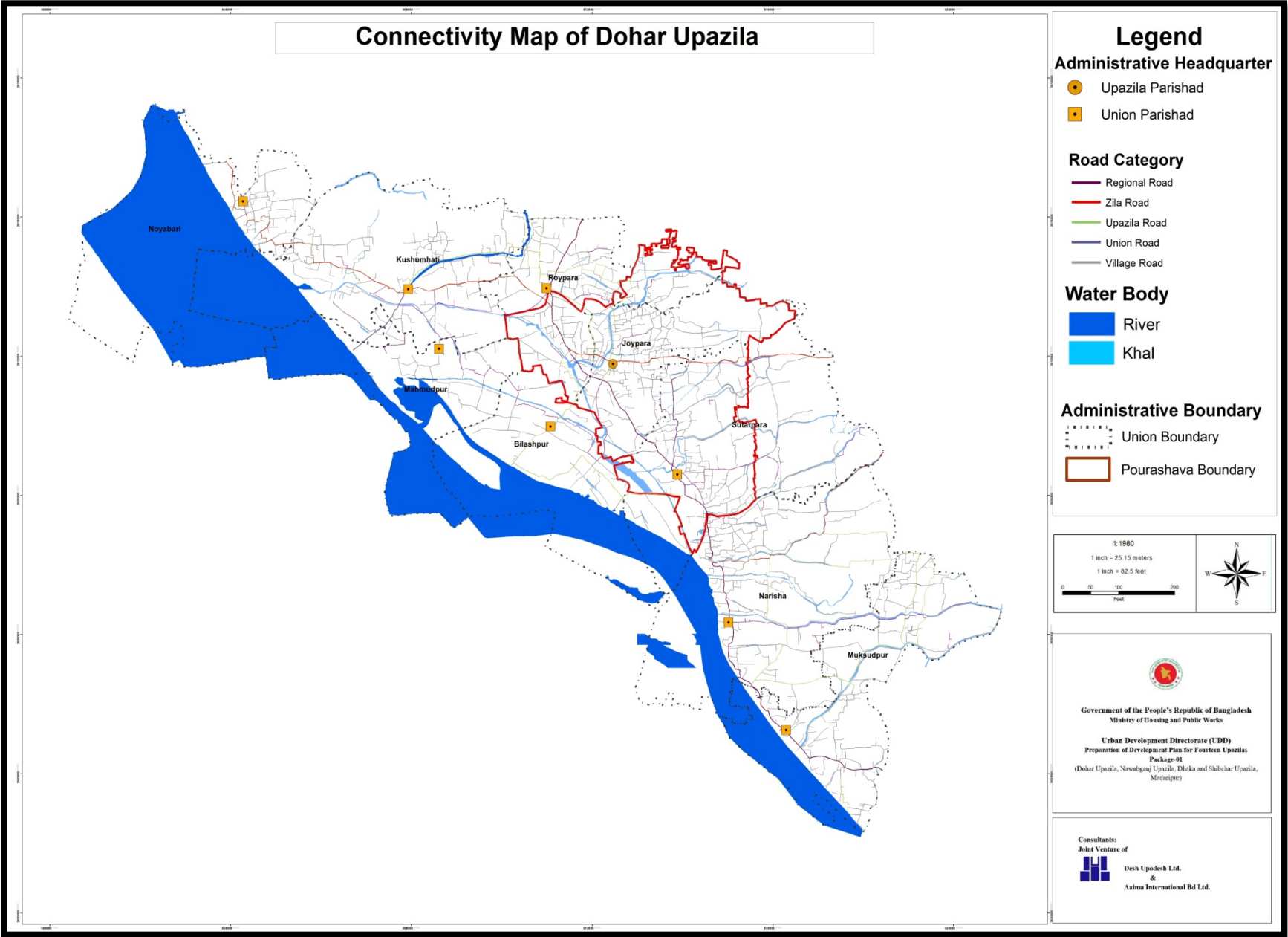
| Health Facilities | No. of Facilities |
|-------------------|-------------------|
| Clinic | 14 |
| Hospital | 6 |



Source: Field Survey, 2017

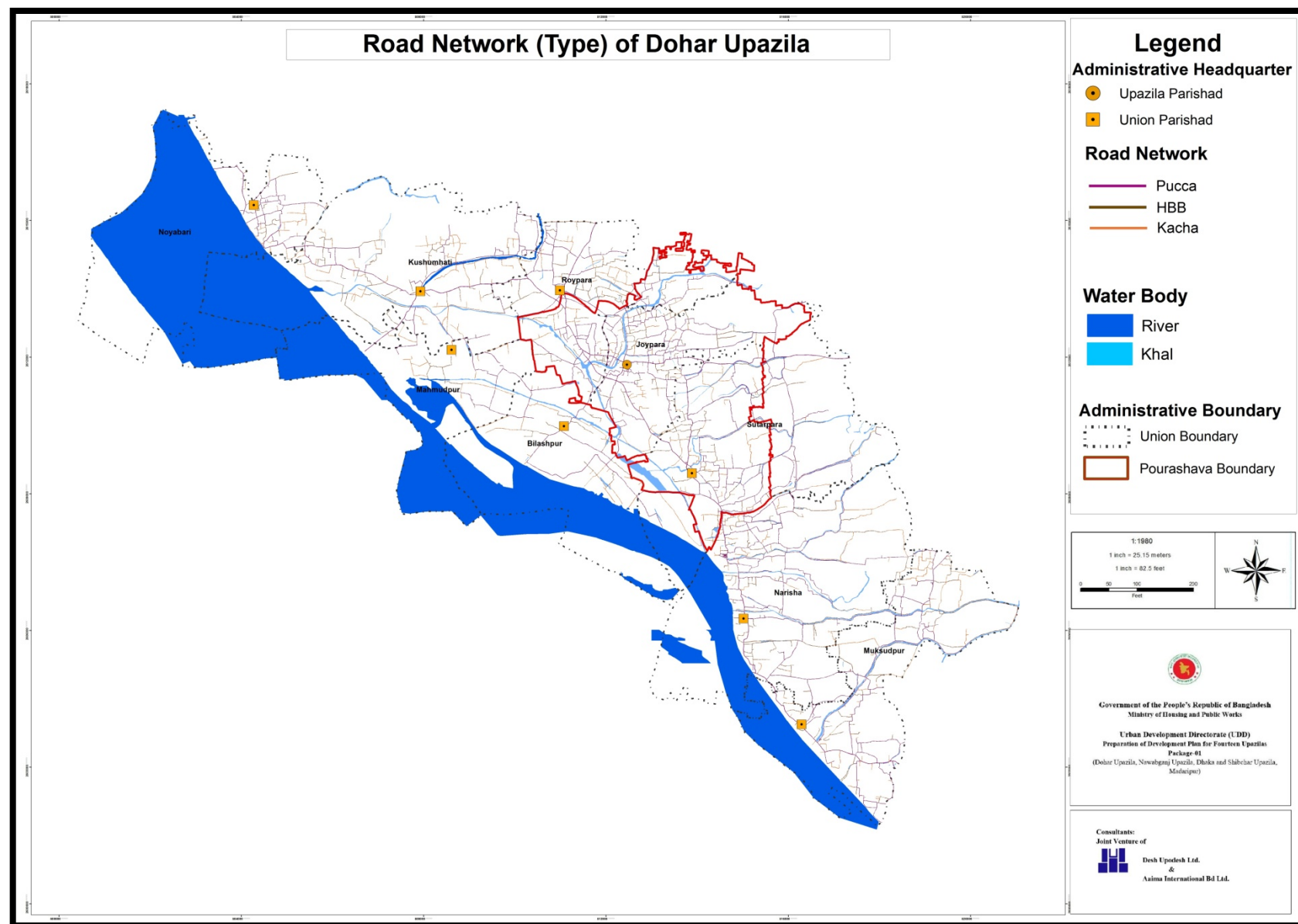
Connectivity Map- Dohar Upazila

| Road Category | Length (Km) |
|---------------|-------------|
| Regional Road | 16.63 |
| Zilla Road | 22 |
| Upazila Road | 43.10 |
| Union Road | 38.50 |
| Village Road | 323.50 |



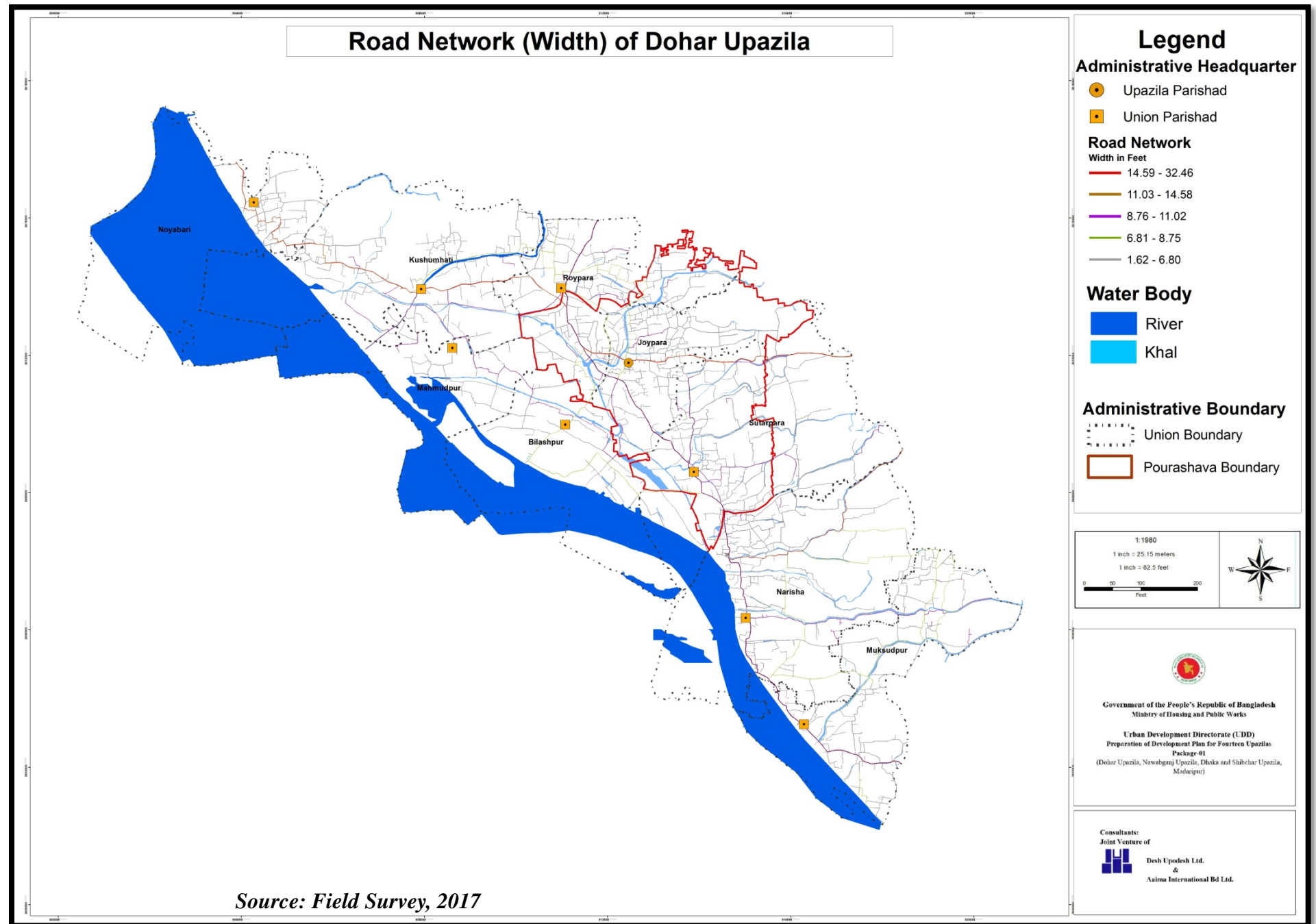
Road Type MAP- Dohar Upazila

| Road Type | Length (KM) |
|--------------|---------------|
| Kacha | 101.4 |
| Pucca | 241.98 |
| HBB | 109.13 |
| Total | 452.51 |



Source: Field Survey, 2017

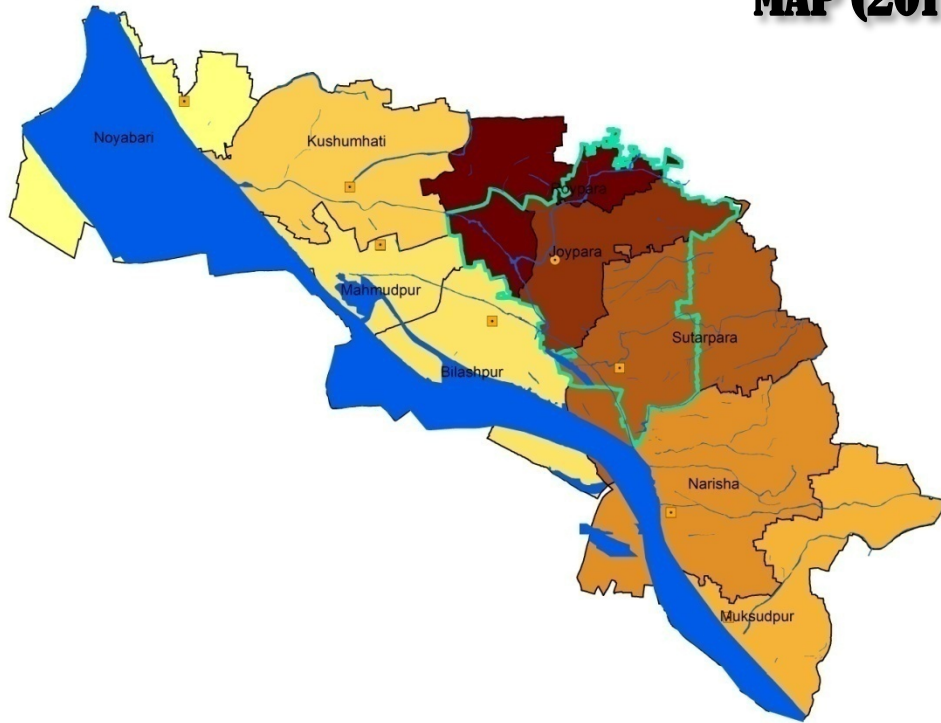
Road Width Map-Dohar Upazila



Population Density Map-Dohar Upazila

Union Wise Population Density Map of Dohar Upazila

UNION WISE POPULATION DENSITY MAP (2011)



Source: Field Survey, 2017

Legend
Population Density
Person per Acre

| | | |
|-------------|-------------|--------------|
| 1.00 - 5.30 | 6.21 - 6.40 | 7.91 - 9.00 |
| 5.31 - 5.70 | 6.41 - 6.90 | 9.01 - 14.00 |
| 5.71 - 6.20 | 6.91 - 7.90 | |

Administrative Headquarter
Upazila Parishad
Union Parishad

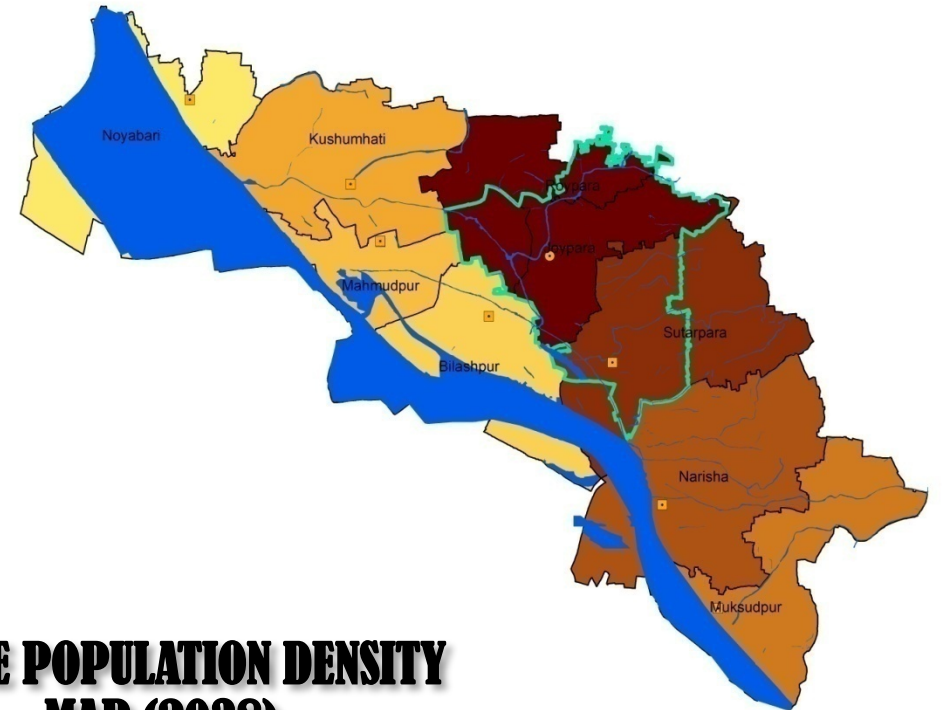
Administrative Boundary
Union Boundary
Pourashava Boundary

River/Khal



Union Wise Population Density Map of Dohar Upazila (2038)

UNION WISE POPULATION DENSITY MAP (2038)



Source: Field Survey, 2017

Legend
Population Density
Person per Acre

| | | |
|---------------|---------------|---------------|
| 0.01 - 10.14 | 10.71 - 11.80 | 12.99 - 14.83 |
| 10.15 - 10.68 | 11.81 - 12.14 | 14.84 - 26.42 |
| 10.69 - 10.70 | 12.15 - 12.98 | |

Administrative Headquarter
Upazila Parishad
Union Parishad

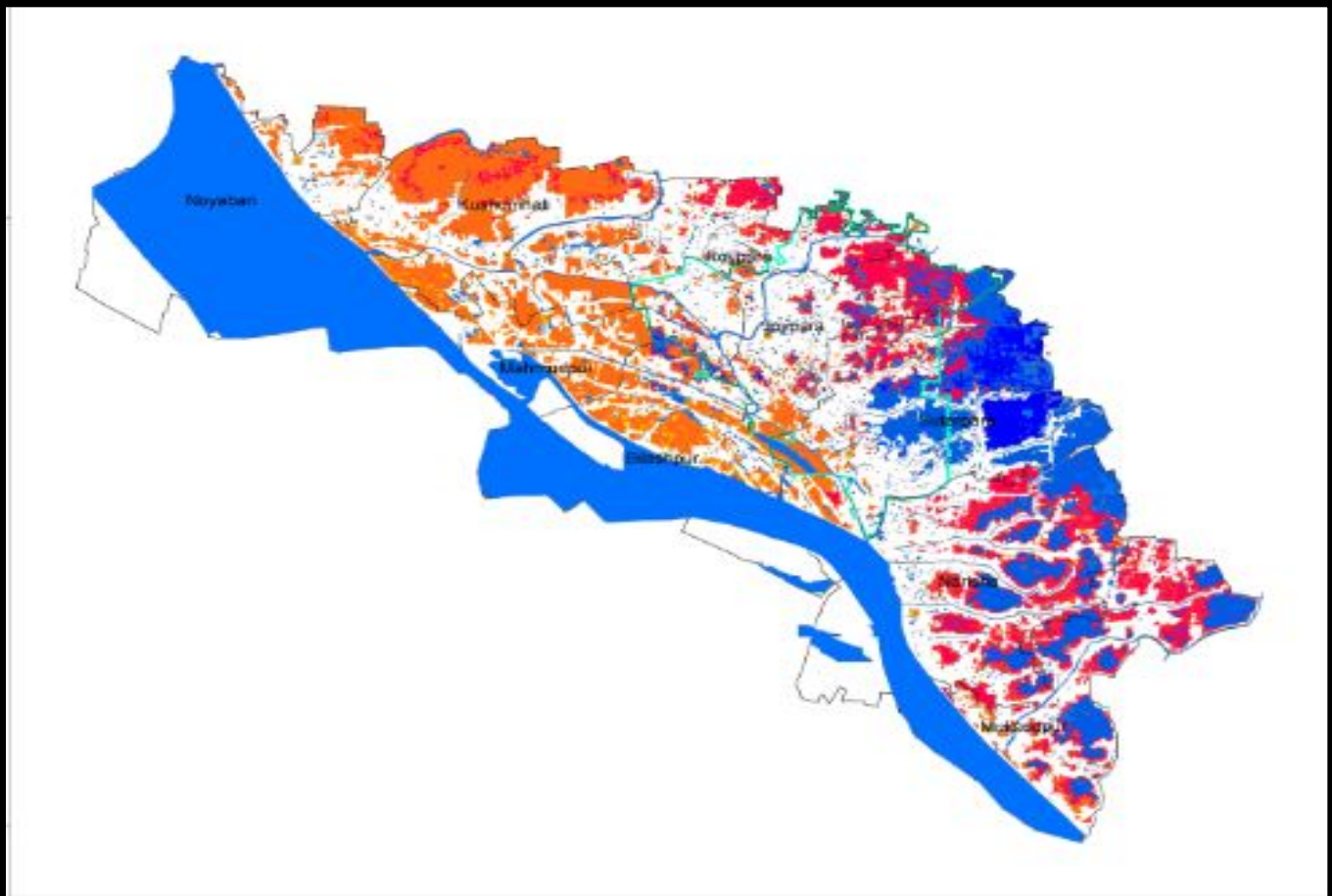
Administrative Boundary
Union Boundary
Pourashava Boundary

River/Khal













Flood Scenario Map-Dohar Upazila

| 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

| | |
|--|---|
|  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.

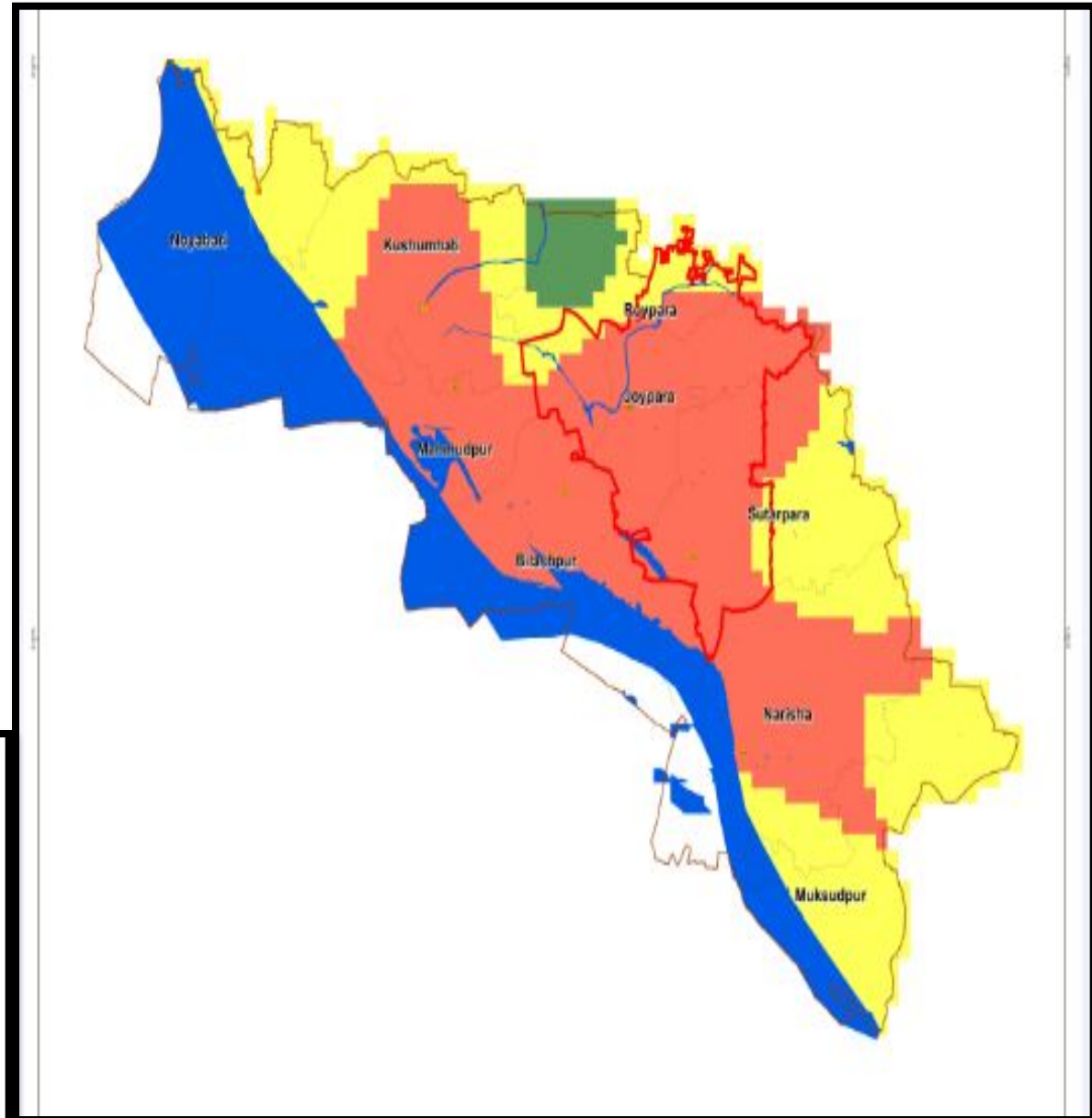
| MPO land types | | | | Flood zones |
|----------------|----------------------|---------------------------|----------------------|-----------------------------------|
| Land type | Description | Flood depth (m) | Nature of flooding | Based on MPO |
| F ₀ | High land | <0.30 | Intermittent | Flood free |
| 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 |

Peak Ground Acceleration (PGA) Map- Dohar Upazila

| 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 |  | 1 st Degree Earthquake Sensitive |  Upazila Parishad |
|  | Upazila Boundary |  | 2 nd Degree Earthquake Sensitive |  Union Parishad |
|  | Union Boundary |  | 3 rd Degree Earthquake Sensitive | |



Source: Field Survey, 2017

Geological/Infrastructure Suitability-Dohar Upazila

| 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 |

Legend

■ River/Khal

□ Upazila Boundary

□ Pourashava Boundary

□ Union Boundary

Administrative Headquarter

● Upazila Parishad

■ Union Parishad

Infrastructure Suitability

■ Very Good

■ Good

■ Moderate

■ Poor

■ Very Poor

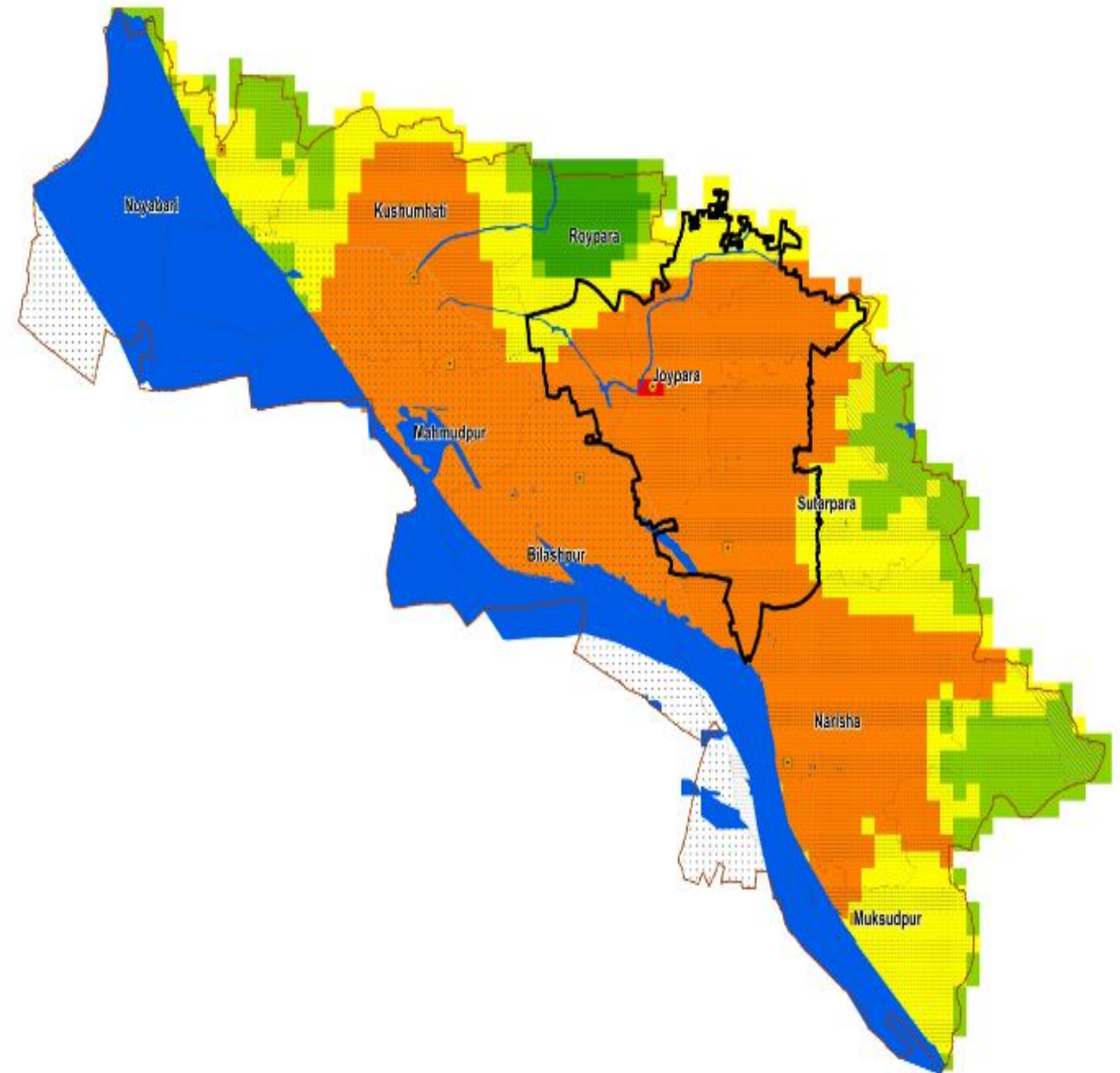
Surface Geology

□ Alluvial sand

□ Deltaic sand

□ Deltaic silt

□ Marsh clay and peat



Source: Field Survey, 2017

SUITABILITY MAPS (DOHAR UPAZILA)

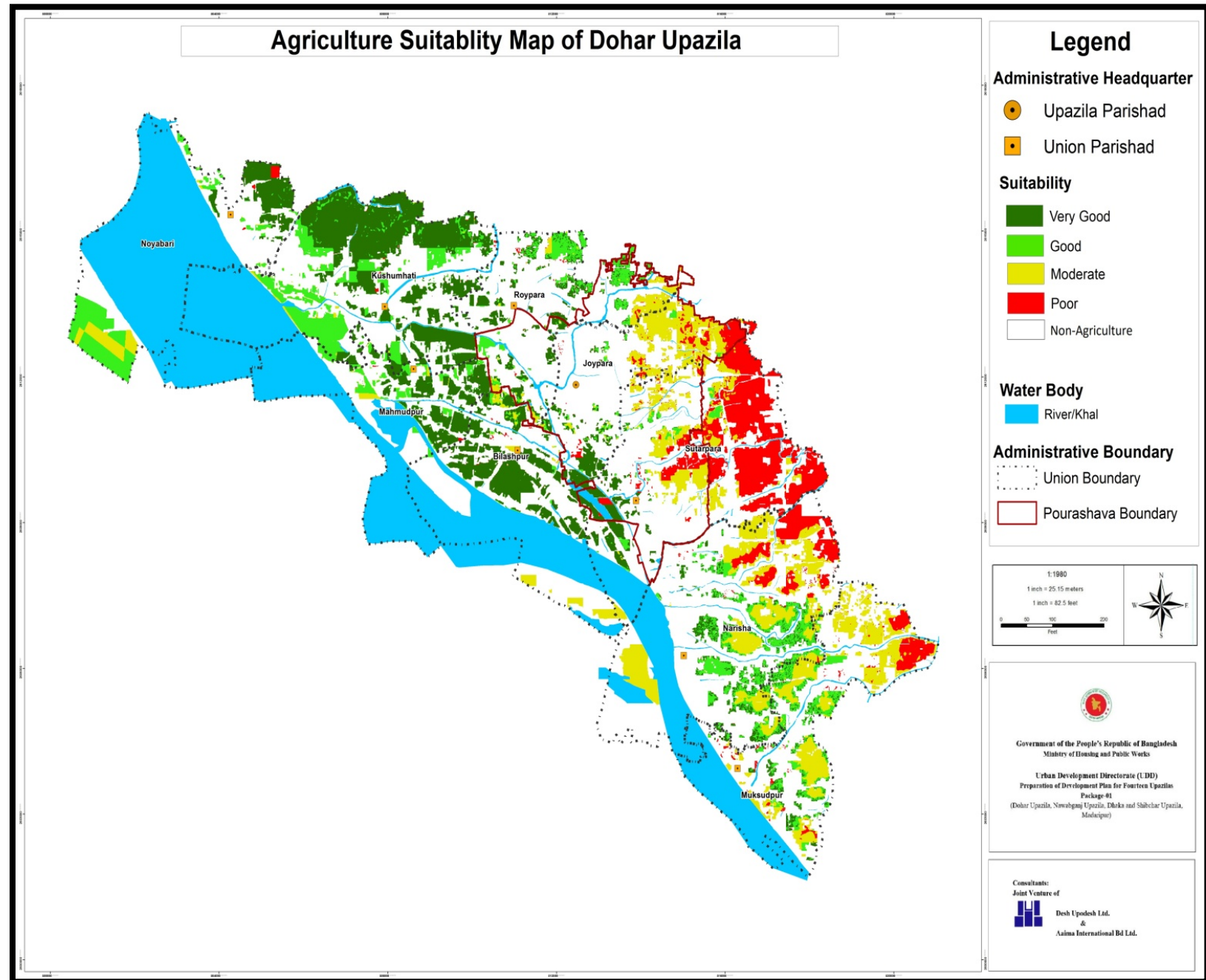
Agriculture Suitability - Dohar Upazila

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: Field Survey, 2017

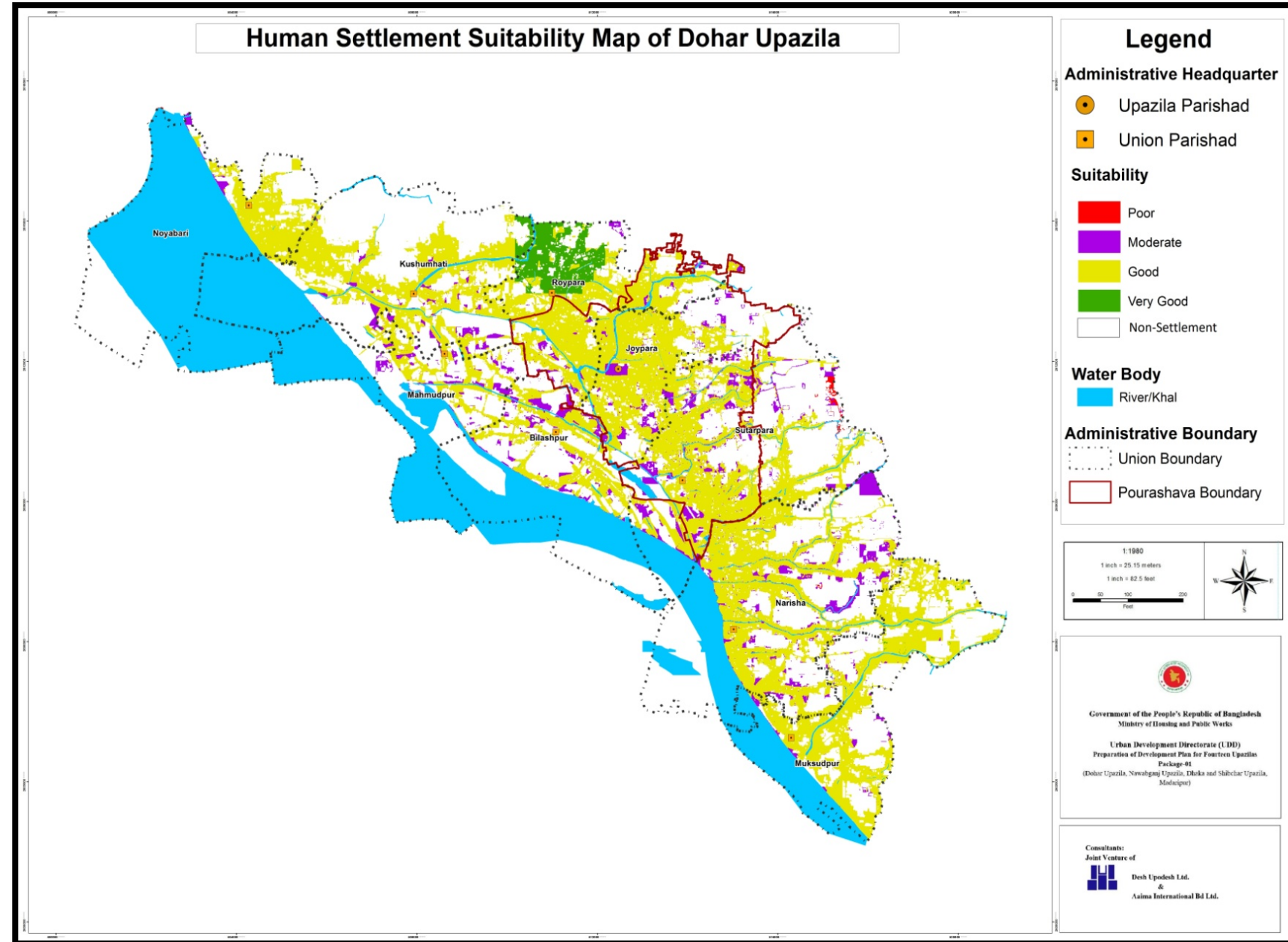
Land Suitability For Human Settlement –Dohar Upazila

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: Field Survey, 2017

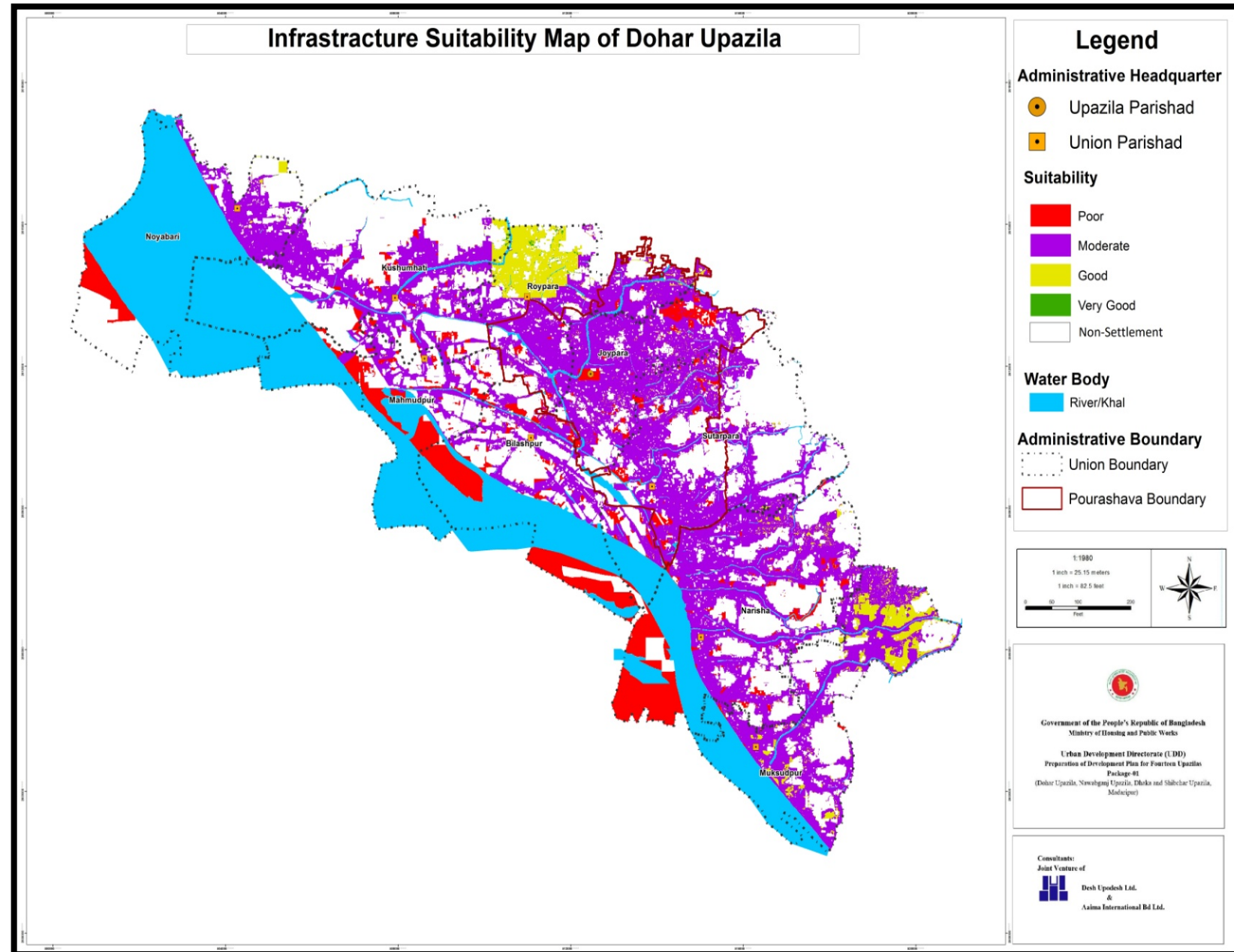
Infrastructure Suitability-Dohar Upazila

Criteria for Suitability

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

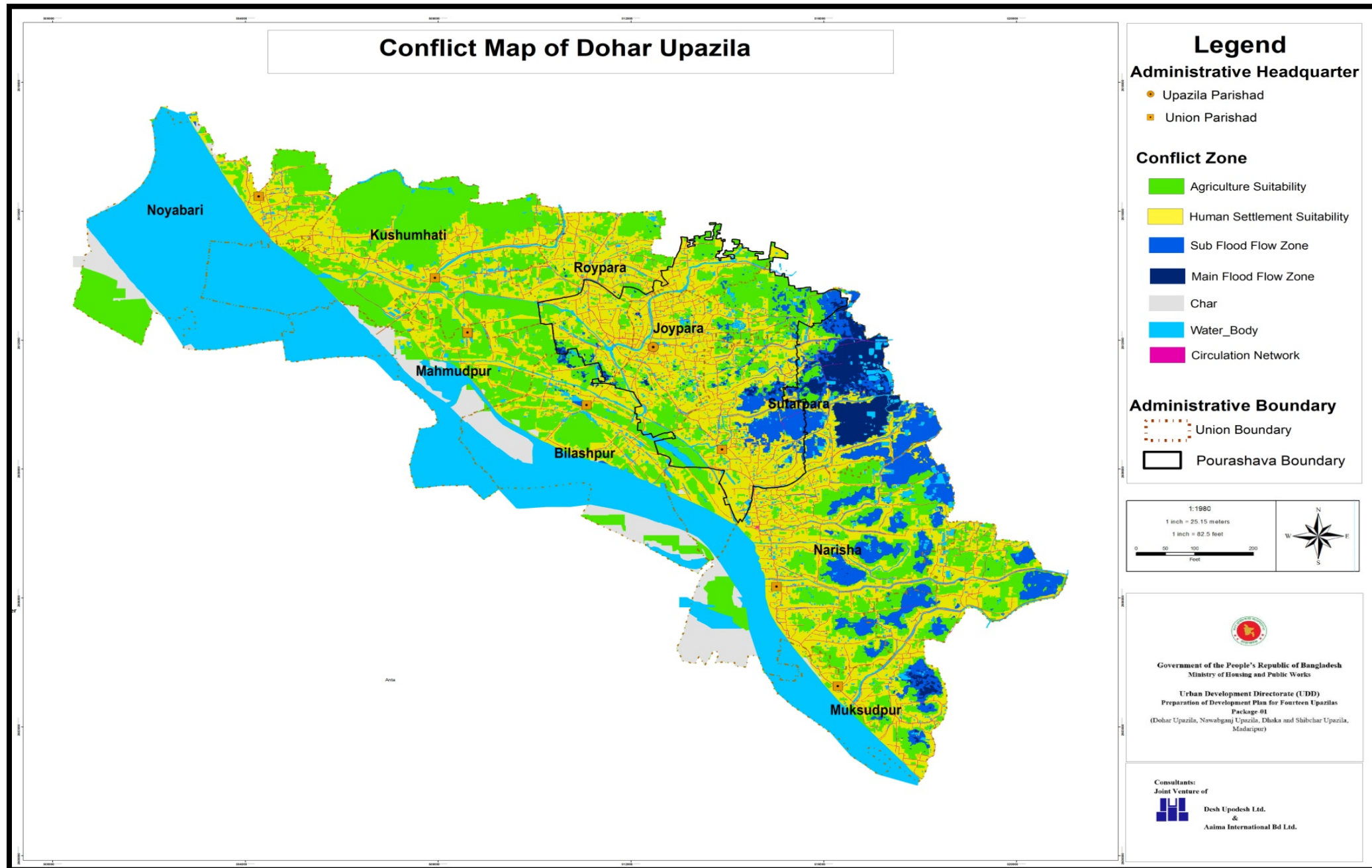
Suitability

| 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: Field Survey, 2017

Conflict Map- Dohar Upazila



Source: Field Survey, 2017

Population Projection (Dohar Upazila)

Urban Area

➤Growth Rate 2%

| Ward | 2011 | 2018 | 2033 |
|-------|-------|-------|--------|
| 1 | 8467 | 9725 | 13090 |
| 2 | 11319 | 13002 | 17499 |
| 3 | 6778 | 7785 | 10479 |
| 4 | 6983 | 8021 | 10796 |
| 5 | 6370 | 7317 | 9848 |
| 6 | 4823 | 5540 | 7456 |
| 7 | 4911 | 5641 | 7592 |
| 8 | 8898 | 10221 | 13756 |
| 9 | 12185 | 13996 | 18838 |
| Total | 71362 | 81252 | 109353 |

Rural Area

➤Growth Rate 1.45%

| Union | 2011 | 2023 | 2033 |
|--------------|----------|----------|----------|
| 1. Bilaspur | 14268 | 18224 | 26881 |
| 2. Kusumhati | 22246 | 28414 | 41912 |
| 3. Mahmudpur | 16846 | 21517 | 31738 |
| 4. Muksudpur | 23780 | 30373 | 44802 |
| 5. Narisha | 39029 | 49850 | 73532 |
| 6. Nayabari | 14183 | 18115 | 26721 |
| 7. Roypara | 24988 | 31916 | 47078 |
| 8.Sutarpara | 34665 | 44276 | 65310 |
| Total | 1,90,005 | 2,42,689 | 3,70,642 |

Total Population (2011): 2,61,367
Total Population (2033): 4,79,995
Difference: 2,18,628

How & Where to Accommodate these Additional Population in Planned Way –Dohar Upazila

Average Household Footprint

➤Average Household Footprint (Dohar Upazila)- 494 sqft

Gross Residential Area for Future Population

➤Gross Residential Area (Dohar Upazila)- 287 acre

Planned Housing Estate

Housing Estate (**Dohar**)- 147acre

Location- Ward No. 05, 06, 07

Mauza Name- Joypara (Sheet No. 002)

Planning Standard & Demand Calculation- Dohar Upazila

| EDUCATION FACILITIES | | | | |
|---|--------------------------------------|--------------|-----------------------------|-------------------|
| Use/Facility | Recommended Standard Provision(unit) | Existing No. | Total Required No. and Land | Additional Needed |
| Urban Area Projected Population: 99,924 (2023) | | | | |
| 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(2033) | | | | |
| 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(2023) | | | 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 (2033) | | | |
| 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(2023) | | | |
| 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 & Demand Calculation- Dohar Upazila

| 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 |

Demand/Need Assessment from PRA Findings- Dohar Upazila

| No. | Major Problems | Unions Affected | No. of Union |
|-----|---|---|--------------|
| 1. | Problem of Road (Narrow Road) | Nayabari, Kushumhati, Roypara, Sutarpara,Narisha, Muksudpur, Mahmudpur, Bilashpur | 8 |
| 2. | Problem of shelter for landless people. | Nayabari | 1 |
| 3. | Infrastructure problem of educational institutions. | Nayabari, Narisha, Mahmudpur, Bilashpur | 4 |
| 4. | Problem of safe drinking water. | Nayabari, Kushumhati, Sutarpara,Narisha | 4 |
| 5. | Problem of repair of institution religious. | Nayabari | 1 |
| 6. | Water logging problem. | Kushumhati, Sutarpara, Narisha, Muksudpur | 4 |
| 7. | Sanitation problem. | Kushumhati, Roypara, Sutarpara, Mahmudpur, | 4 |
| 8. | Health services problems. | Kushumhati, Roypara, Mahmudpur Bilashpur , Nayabari | 5 |
| 9. | Padma river erosion problem. | Sutarpara, Narisha, Muksudpur, Mahmudpur,Bilashpur | 5 |
| 10. | Absence of sluice gate. | Bilashpur | 1 |
| 11. | Electricity problem. | Bilashpur | 1 |

Proposed Facilities/Features in 5-tier Development Plan of Dohar Upazila-At a Glance

| 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 Plant ➤ 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 |

TMC Comments on Draft Plan

- ☐ Natural Drainage Proposal
- ☐ Field Visit with Hydrologist
- ☐ Changing Housing Estate Location
- ☐ New Road Proposal (Parallel to ZKD Road)
- ☐ Eco-critical Zone (Moinot Ghat) (0.5 Km Buffer)
- ☐ Meeting with MP

**Public
Hearing
Comments
Cont.
(Dohar
Upazila)**

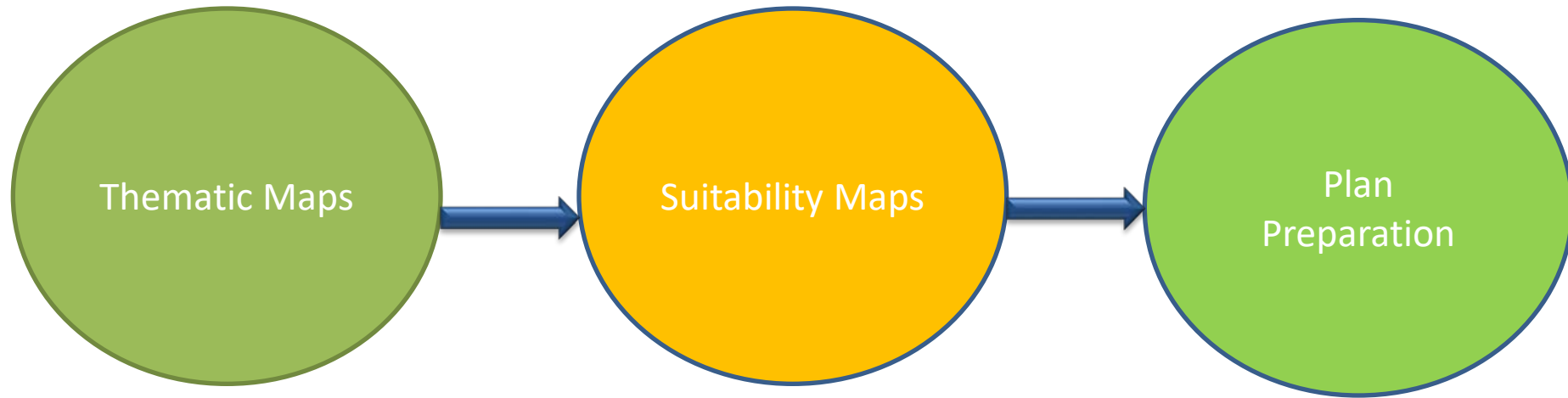
| Spatial | Administrative | Management Issue | Others |
|--|--|---|---|
| Badly Need a 20 feet road in 4 no ward (Jamila Khatun, Councilor of Ward no. 04, Dohar Pourashava) | Changing the location of Ward Center of 02 no. ward. (Md. Almas Uddin, Councilor of Ward no. 02, Dohar Pourashava) Ward Center | Drainage facilities and strict management need be incorporated in the master plan more broadly. (Md. Almas Uddin, Councilor of Ward no. 02, Dohar Pourashava) | There is a suggestion in proposed master plan to improve the beautification beside Khal in 3 no ward . We are against this suggestion. we think if the existing condition is replaced with artificial beautification the homestead will be vanished soon.(Khale da Akter, 3 no ward councilor) |
| Incorporate Road Proposal data of Pourashava (Atiqul Khalid, Urban Planner, Dohar Pourashava) Road | | | |

Public Hearing Comments (Dohar Upazila)

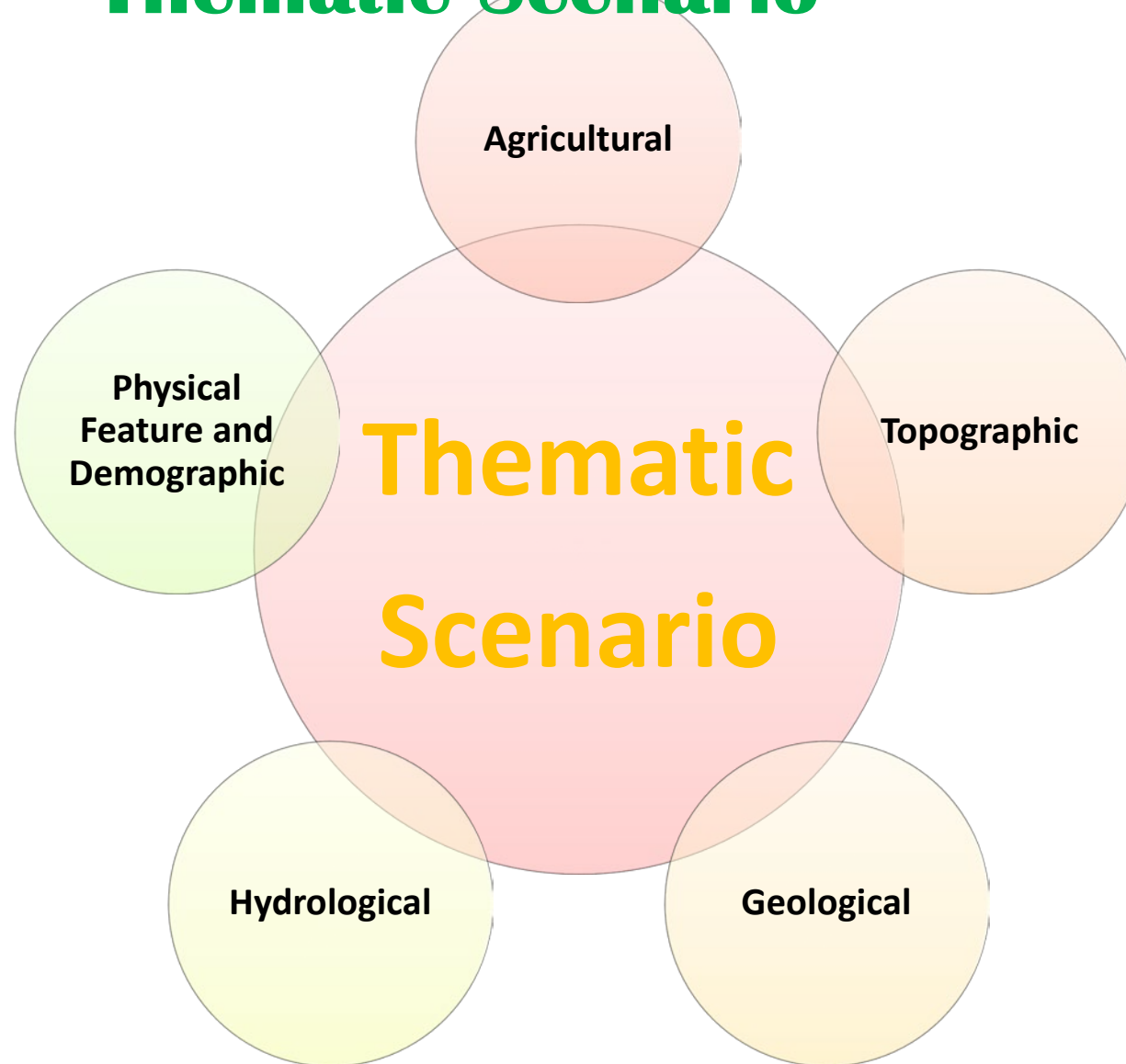
| Spatial | Administrative | Management Issue | Others |
|---|----------------|--|---|
| The projects and facilities provided for the ward no -1, in Dohar pourashava, is very much appropriate for the future development of Dohar pourashava. The people of pourashava will be satisfied if all the mentioned project will be implemented soon (Bodrul Isam, 1 no ward councilor) | | If there is any work related with drainage management, our suggestion is the pourashava authority must be engaged the ward councilor from individual ward. (Khaleda Akter, Councilor of Ward no. 03, Dohar Pourashava) | Need a specific master plan to control the haphazard growth and ensure planned growth in near future. (Rokibul Hasan Rokib, Councilor of Ward no. 02, Dohar Pourashava) |
| Road need to increase in ward no 3 up to 20 feet.(Khaleda Akter, Councilor of Ward no. 03, Dohar Pourashava) | | | |
| One school and college will be badly needed in ward number 8. (Rokibul Hasan Rokib, Councilor of Ward no. 02, Dohar Pourashava) Education | | | |
| 30 feet road is needed in ward no. 6 (Md. Hamid Ali , Councilor of Ward no. 06, Dohar Pourashava) | | | |
| Changing the location of play field at ward no. 03(Khaleda Akter, Councilor of Ward no. 03, Dohar Pourashava) Play Field | | | |
| Drainage facilities need to be improved in full Dohar Pourashava. especially in ward no 3(Khaleda Akter, Councilor of Ward no. 03, Dohar Pourashava) Drain | | | |
| Need Tourist Zone in Mahmudpur and Kushumhati Union (UP chairman of Mahmudpur and Kushumhati Union) | | | |
| Widening of main Road(UP chairman of Narisha, Bilashpur, Sutarpara, Mahmudpur, Kushumhati and Noyabari Union) | | | |

Planning Stage

Plan Preparation Process

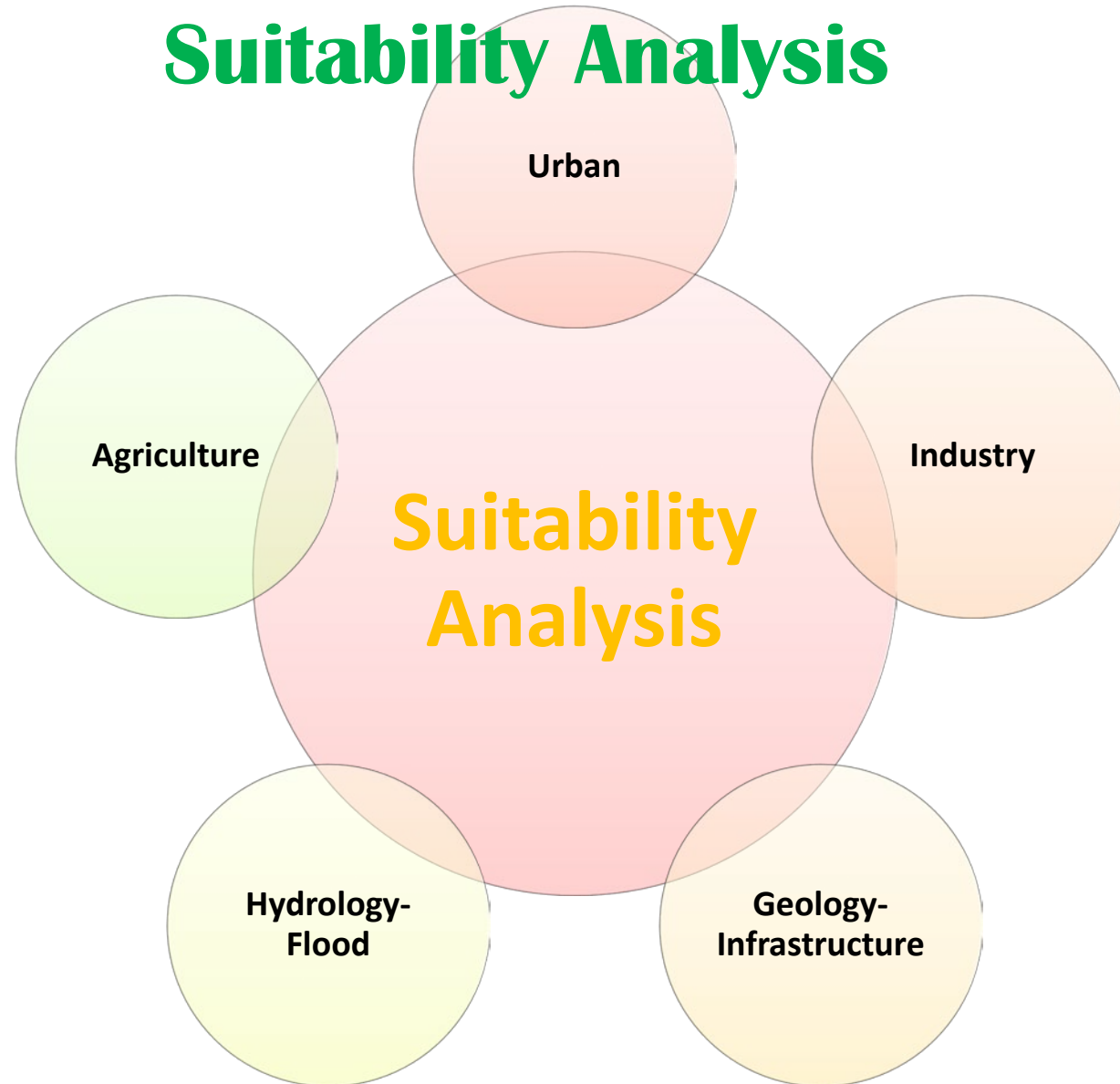


Thematic Scenario



19 Thematic maps

Suitability Analysis



5 Suitability maps

5-tier Development Plan Preparation

Sub-regional Plan

- ❑ Strategies & Guidelines
- ❑ Connectivity & inter-relationship with surrounding Prefectures & Districts
- ❑ Long term Vision (20 years)
- ❑ Broad Land use Zoning
- ❑ Preservation & Conservation

Structure Plan

- ❑ Indicative & Policy Oriented
- ❑ Long term Vision (20 years)
- ❑ Strategic Big Projects
- ❑ Guide growth & Development
- ❑ Development Control

Rural Area Plan

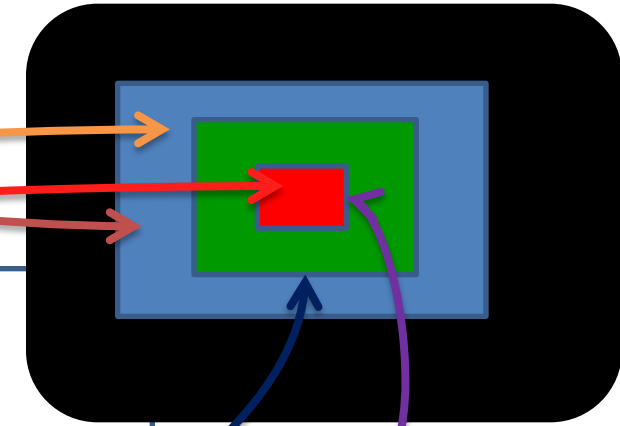
- ✓ Land Use Plan
- ✓ Traffic and Transportation plan for agricultural products
- ✓ Drainage and Environment Management Plan
- ✓ Rural Facilities plan
- ✓ Livelihood Plan
- ✓ Mid Term (10 years)

Urban Area Plan

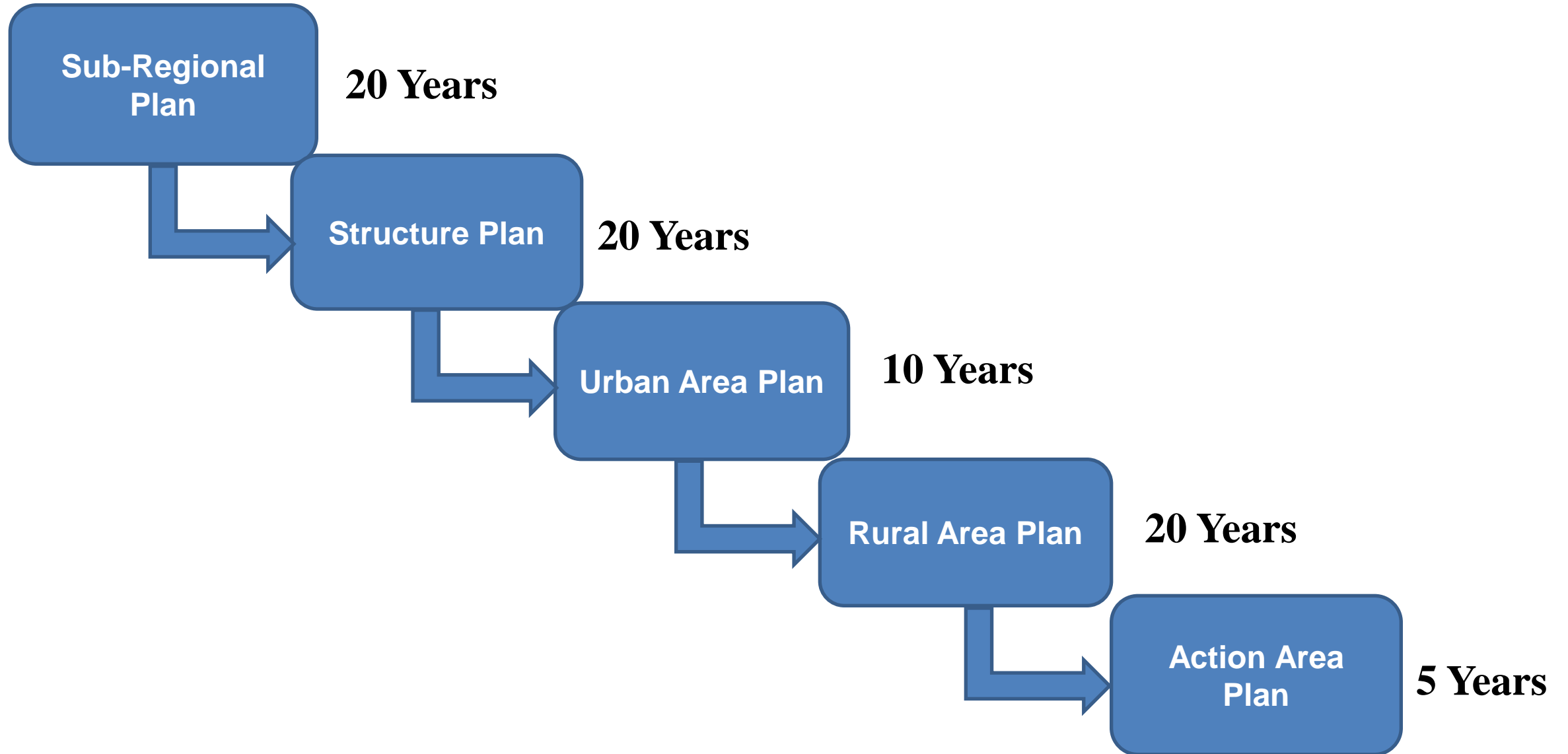
- ✓ Land Use Plan
- ✓ Sectoral Issues & interventions
- ✓ Traffic and Transportation plan
- ✓ Drainage and Environment Management Plan
- ✓ Urban Facilities plan
- ✓ Economic Plan
- ✓ Mid Term (10 Years)

Action Area Plan

- ✓ Implementation Plan
- ✓ Detail Planning Proposal to Meet the Local Demands
- ✓ Immediately implementable
- ✓ Bankable prioritized sectoral schemes/projects
- ✓ Short Term (within 5 years)



Possible Output of Development Plan

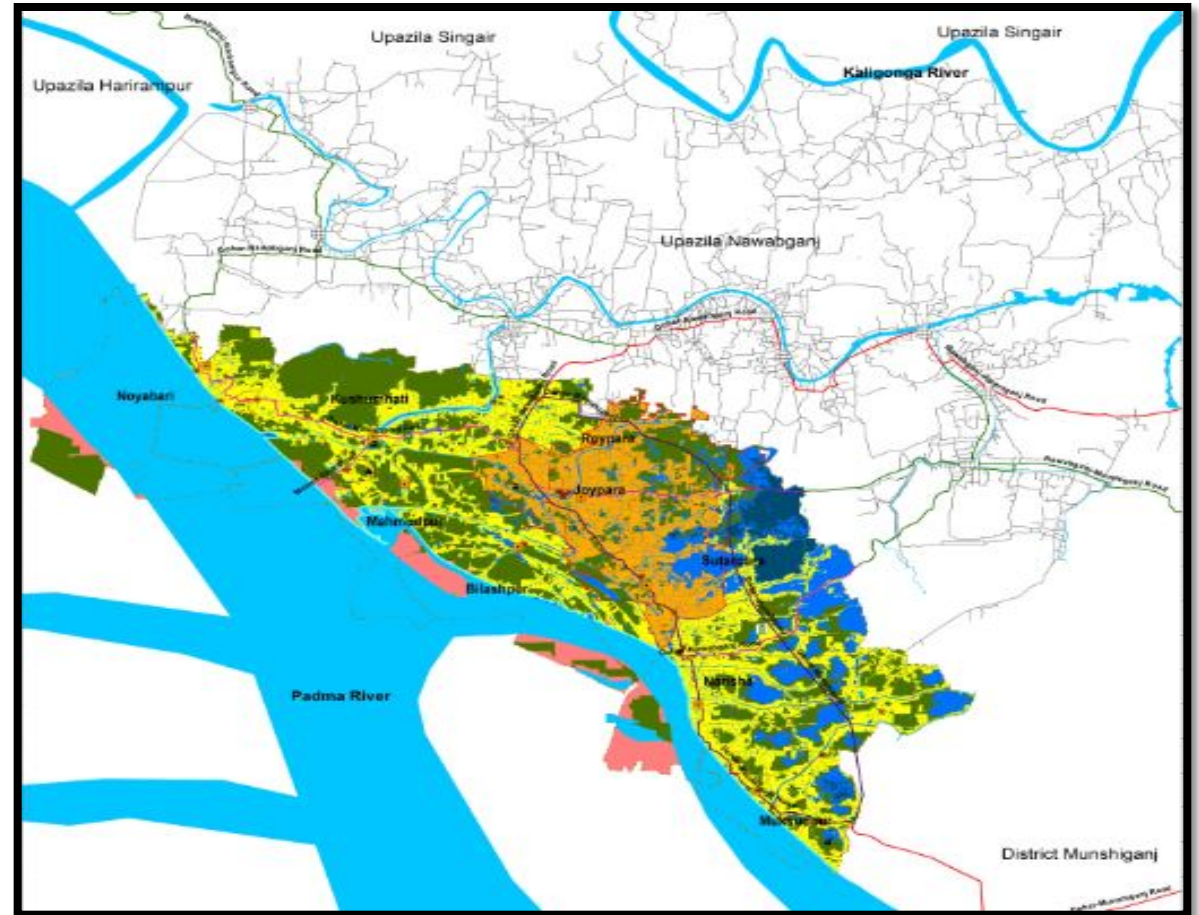


SUBREGIONAL PLAN (DOHAR UPAZILA)

Sub-Regional Plan (2013-2033)- Dohar Upazila

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 Main Proposals- Dohar Upazila

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) for 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 (DOHAR UPAZILA)

Structure Plan-Dohar Upazila

EXISTING LANDUSE MAP



STRUCTURE PLAN



Structure Plan (2013-2033)- Dohar Upazila

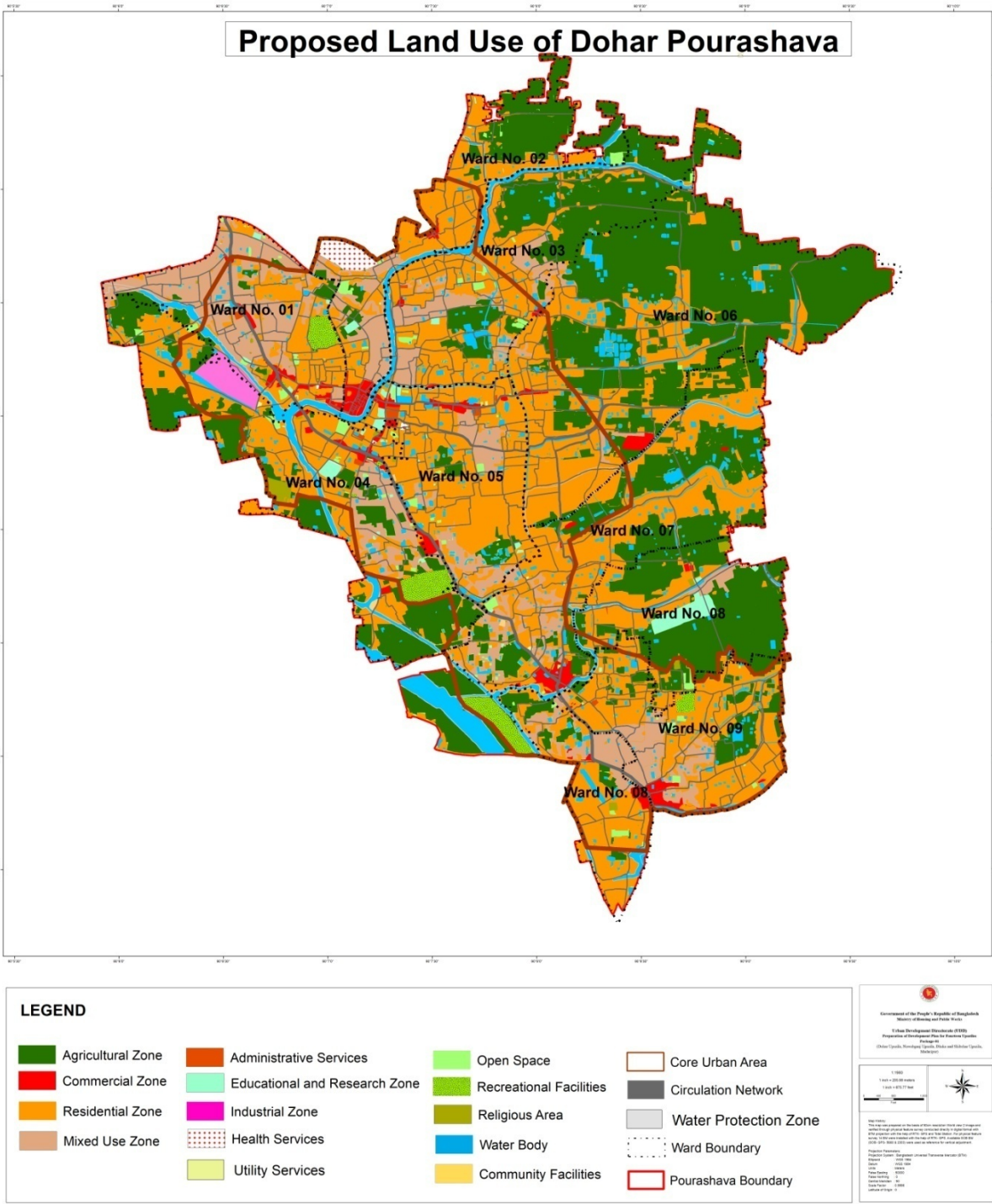
| Strategic Zoning | Area(Acre) | Percentage |
|-------------------------------------|------------|------------|
| Agriculture | 8816.409 | 25.92 |
| Circulation Network | 300.109 | 0.88 |
| Main Flood Flow Zone | 781.495 | 2.30. |
| Restricted Special | 1297.439 | 3.81 |
| Rural Settlement | 7442.289 | 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 |

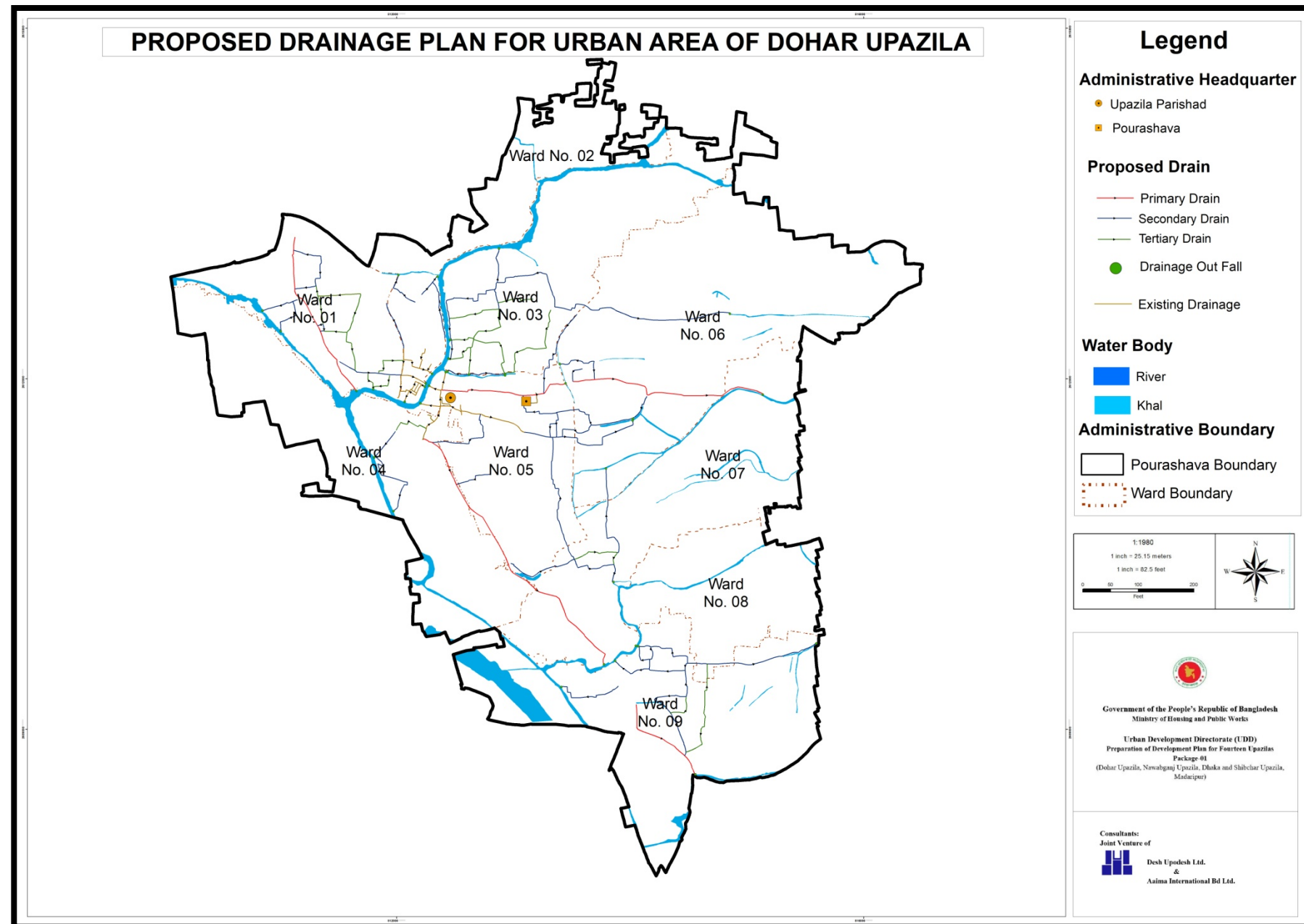
URBAN AREA PLAN (DOHAR UPAZILA)

Proposed Landuse in Urban Area Plan (2013-2023) of Dohar

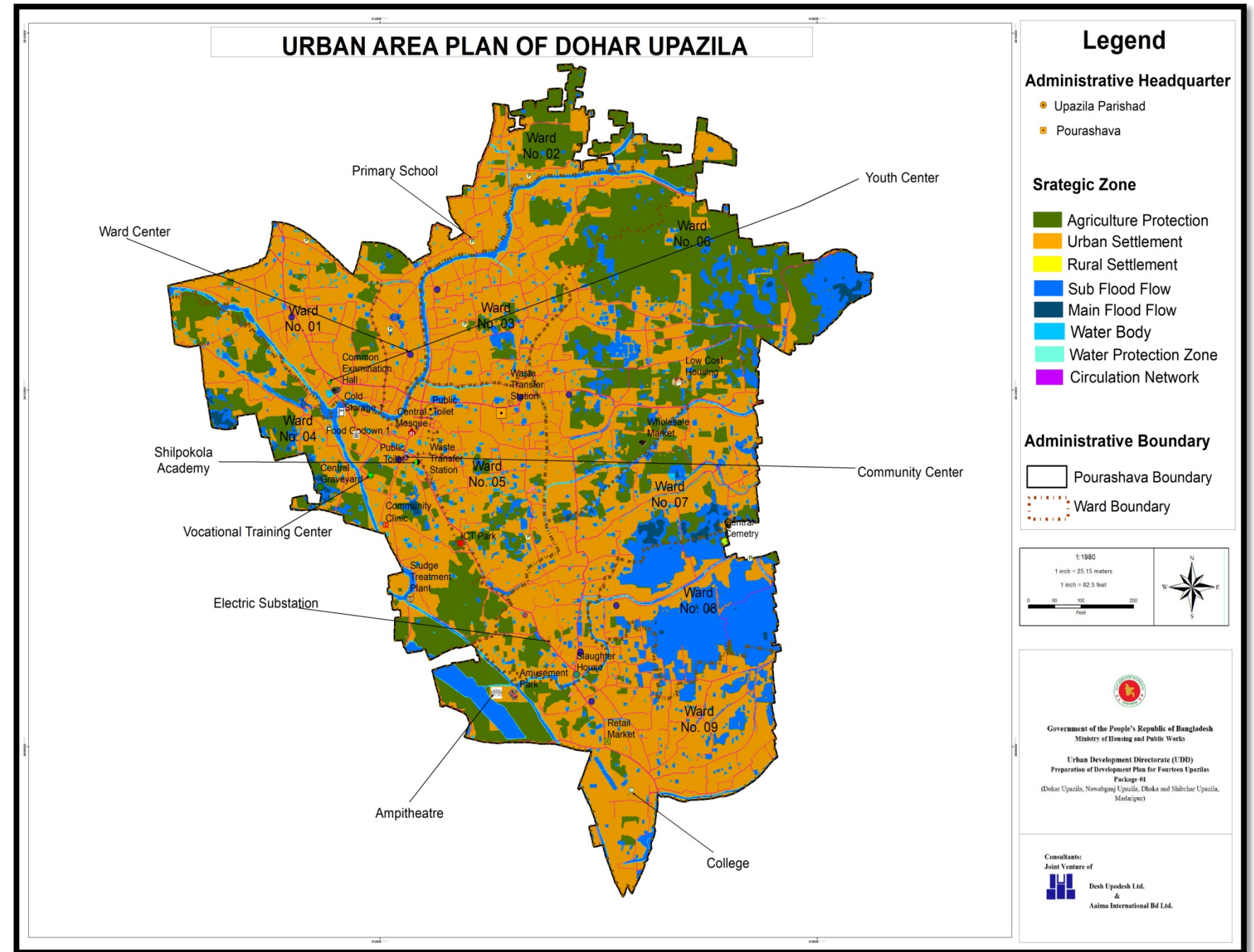
| Strategic Zoning | Area(Acres) | Percentage |
|-----------------------------------|-------------|------------|
| Agriculture Zone | 1317.66 | 25.38 |
| Administrative Zone | 8.86 | .17 |
| Residential Zone | 2119.06 | 40.73 |
| Commercial Zone | 139.36 | 2.61 |
| Mixed Use Zone | 577.36 | 11.12 |
| Health Services | 22.39 | .43 |
| Education and Research | 40.36 | .78 |
| Religious Area | 22.69 | .44 |
| Manufacturing and Processing Zone | 29.66 | .57 |
| Recreational Facilities | 60.13 | 1.16 |
| Community Facilities | 3.12 | .06 |
| Utility Facilities | 1.13 | .02 |
| Open Space | 81.09 | 1.56 |
| Transportation | 329.89 | 6.35 |
| Water Body Protection Zone | 60.79 | 1.17 |
| Water Body | 387.93 | 7.45 |
| Total | 5189.42 | 100.00 |



Proposed Drainage Network Map-Dohar Upazila



Urban Area Plan (2013-2023)-Dohar Upazila



Proposed Facilities/Features in Urban/Rural Area Plan-Dohar Upazila

| Strategic Proposal | Location | Mauza Name | Plot No | Area (acre) |
|--------------------|---|--|---|-------------|
| Upazila Stadium | Dohar Pourashava(Ward No 4) | Nurpur | 199,206,213-235,239-245, 260, 264, 265,266,270,272,273,277 | 20 |
| Bus Terminal | Narisha, Roypara | Meghula Charrup | 95,96 164,165 | 1.56 |
| Truck Terminal | Noyabari, Kushumhati, Muksudpur, Roypara, Sutarpara, Dohar Pourashava(Ward No.04) | Dhor Lotakhola Kharia Muksudpur Kushumhati Dakshin bahra | 3697,3706 2810,2832,2833,2843 445,446 308,315 654,665 1720,1723,1724 | 3.58 |
| Housing Estate | Dohar Pourashava (Ward No. 5,6,7) | Joypara | 900-1279,2540-2563,2651-2698,2700,2707,2708,2721-2820,3335-3405, | 150 |

Proposed Facilities/Features in Urban/Rural Area Plan-Dohar Upazila.....Cont.

| | | | | |
|-----------------|---|--------------|---|----------|
| Industrial Zone | Roypara, Kushumhati, Dohar Pourashava(Ward no 4), Muksudpur | Lotakhola | 2150,2151,2152,2153,2154,2157,2161,2162,2163,2165,2168,2169,2170-2180,2188,2189,2190,2193,2194,2195,2200,2201,2202,2203,2325-2330,2395-2404 | 150 Acre |
| | | Bethua | 92,94,96,97,98,196,112,116,118,120,122,123-139,143,144,149,200,205212,213,214,189,208,209,210,277- | |
| | | Bara Ekrashi | 288,289,294,295,306,309,316,325,332-337,349,353,354,690,694 | |
| | | Char Balia | 1734,1737,1738,1740,1741,1746, 1755-1761,1907-19131958-1965,1007,2007,2018,2145,214736,37,38,39,40,41,77,78,79,80,81 | |
| Tourism Zone | Mahmudpur, Kushumhati | Char Baita | 109,110,111,116,117,118,123,124,126,129,130,131,133,132,145,188,189,190,191,196 | 35 Acre |

Note: Area in Acre

Proposed Facilities/Features in Urban/Rural Area Plan-Dohar Upazila.....Cont.

| | | | | |
|--------------------------------------|-------------------------------|------------|---|-----|
| Hospital with ICU and CCU Facility | Dohar Pourashava(Ward No 2) | Joypara | 1-11,16,17,20-25,74-79,80-93,105,106 | 20 |
| Food Godown | Dohar Pourashava(Ward No.4) | Lotakhola | 2830,2831,2835 | 0.5 |
| Cold Storage | Dohar Pourashava(Ward No.4) | Lotakhola | 2799,2802 | 0.5 |
| Central Mosque | Dohar Pourashava(Ward No.4) | Joypara | 2187,2195,2196,2197 | 0.5 |
| Amusement Park | Dohar Pourashava(Ward No.09) | Kazir Char | 225-229,230-242,365,366,367,372-377,414,481,417,420,421,422,423,430,431 | 20 |
| Common Examination Hall | Dohar Pourashava(Ward No.01) | Lotakhola | 2584,2585 | 0.3 |
| Fisheries and fish processing center | Narisha | Shimulia | 78,80,82-96,105 | 10 |
| ICT Park | Dohar Pourashava(Ward No.4,5) | Joypara | 329,330,2585,2586,2587 | 2.5 |
| Jail | Dohar Pourashava (Ward No.7) | Ghata | 99,100,104,105,2556,2557,2558,2559 | 15 |

Note: Area in Acre

Proposed Facilities/Features in Urban/Rural Area Plan-Dohar Upazila.....Cont.

| | | | | |
|--------------------------------------|------------------------------|-----------|---|-------|
| Low Cost Housing | Dohar Pourashava(Ward No.6) | Ghata | 17-21,26-49,299,300,301,302,309,310,311,312,313,314,315,316,320-372,379,401-416,431-447,461-470 | 70 |
| Public Toilet | Dohar Pourashava(Ward No.5) | Joypara | 3012 | .05 |
| Shilpokola Academy with Amphitheatre | Dohar Pourashava (Ward No.4) | Joypara | 2289 | 0.5 |
| Sludge Treatment Plant | Dohar Pourashava (Ward No.4) | Nurpur | 292,293,298,457 | 1 |
| Slaughter House | Dohar Pourashava(Ward No.7) | Ghata | 2531,2580 | 0.3 |
| Vocational Training | Dohar Pourashava (Ward No.4) | Joypara | 2122,2123,2126,2127,2128 | 5 |
| Youth Center | Dohar Pourashava (Ward No.1) | Lotakhola | 2583,2589,2590 | .20 |
| Solid Waste Disposal Site | Dohar Pourashava (Ward No.6) | Isufpur | 203,204,205,206,215,217,218,219-225,235-239 | 12.86 |

Note: Area in Acre

Proposed Facilities/Features in Urban/Rural Area Plan-Dohar Upazila.....Cont.

| 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 Facilities/Features in Urban/Rural Area Plan-Dohar Upazila.....Cont.

| 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 |

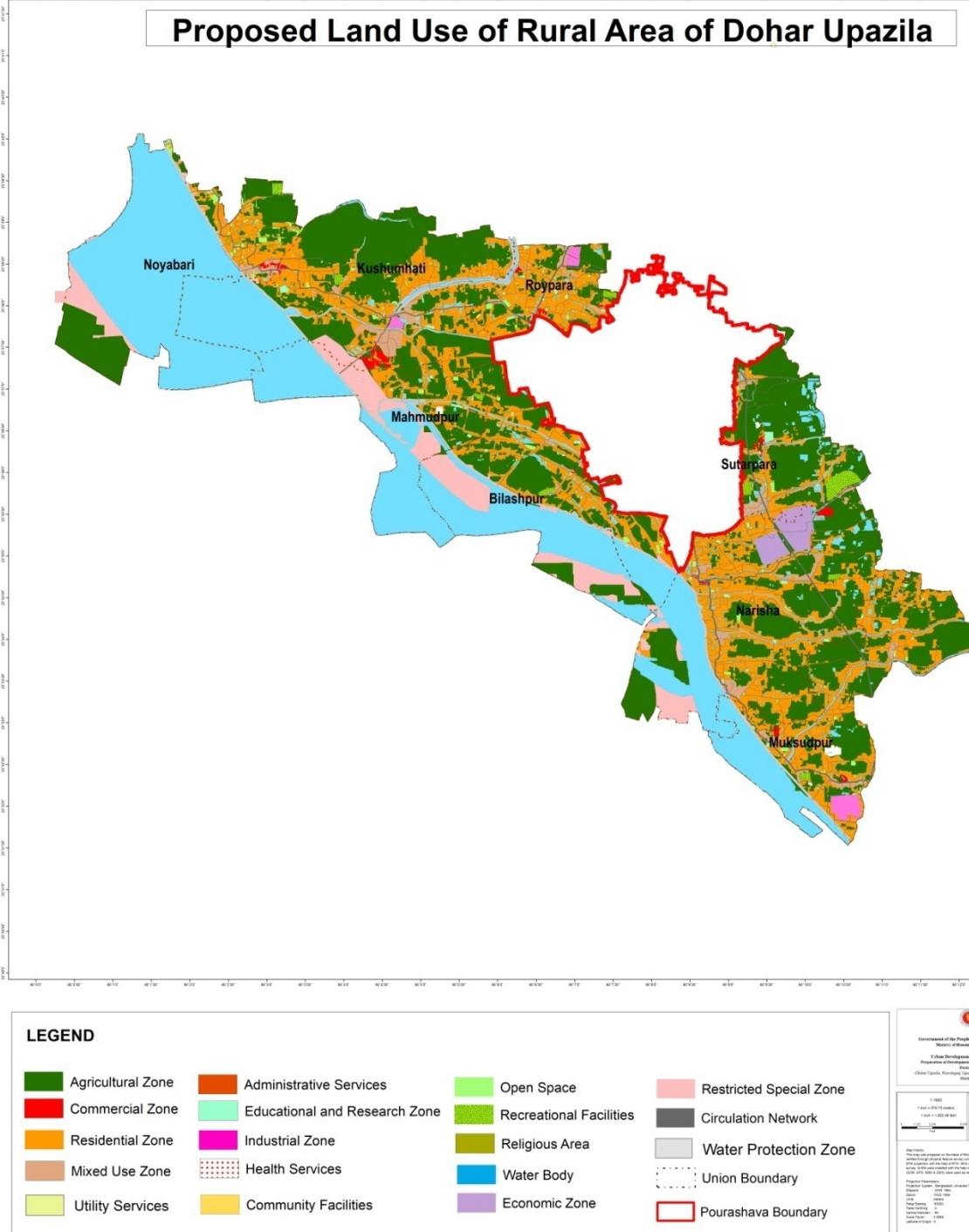
| Type | Location |
|----------------------------|--|
| Proposed Neighborhood Park | Dohar Pourashava (Ward No.1, Ward No. 9) |
| | Roypara Union |
| | Kushumhati Union |
| | Noyabari Union |
| | Mahmudpur Union |
| | Bilashpur Union |
| | Narisha Union |
| | Muksudpur Union |
| | Sutarpara Union |

| 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 |

RURAL AREA PLAN (DOHAR UPAZILA)

Rural Area Plan (2013-2023)- Dohar Upazila

| Strategic Zoning | Area(Acres) | Percentage |
|-----------------------------------|-------------|------------|
| Agriculture Zone | 9017.47 | 34.02 |
| Administrative Zone | 4.54 | .02 |
| Residential Zone | 5522.45 | 20.84 |
| Commercial Zone | 147.92 | .55 |
| Mixed Use Zone | 466.67 | 2.06 |
| Economic Zone | 239.14 | .91 |
| Health Services | 9.18 | .03 |
| Education and Research | 91.68 | .35 |
| Religious Area | 185.77 | .70 |
| Manufacturing and Processing Zone | 128.08 | .48 |
| Recreational Facilities | 142.71 | .54 |
| Community Facilities | 4.37 | .06 |
| Utility Facilities | 1.94 | .007 |
| Open Space | 164.50 | .62 |
| Transportation | 649.29 | 2.45 |
| Restricted Special Zone | 1269.13 | 4.78 |
| Water Body Protection Zone | 512.11 | 1.93 |
| Water Body | 7864.03 | 29.66 |
| Total | 26500.98 | 100.00 |



Proposed Natural Drainage Network Map-Dohar Upazila

PROPOSED NATURAL DRAINAGE PLAN OF DOHAR UPAZILA



Legend

Administrative Headquarter

- Upazila Parishad
- Pourashava

Proposed Drain

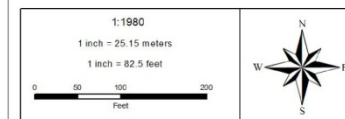
- Primary Drain
- Existing Drainage
- Proposed Natural Drainage

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.
&
Aasma International Bd Ltd.

ACTION AREA PLAN (DOHAR UPAZILA)

Urban Design of Moinot Ghat, Mahmudpur, Kushumhati- Dohar Upazila



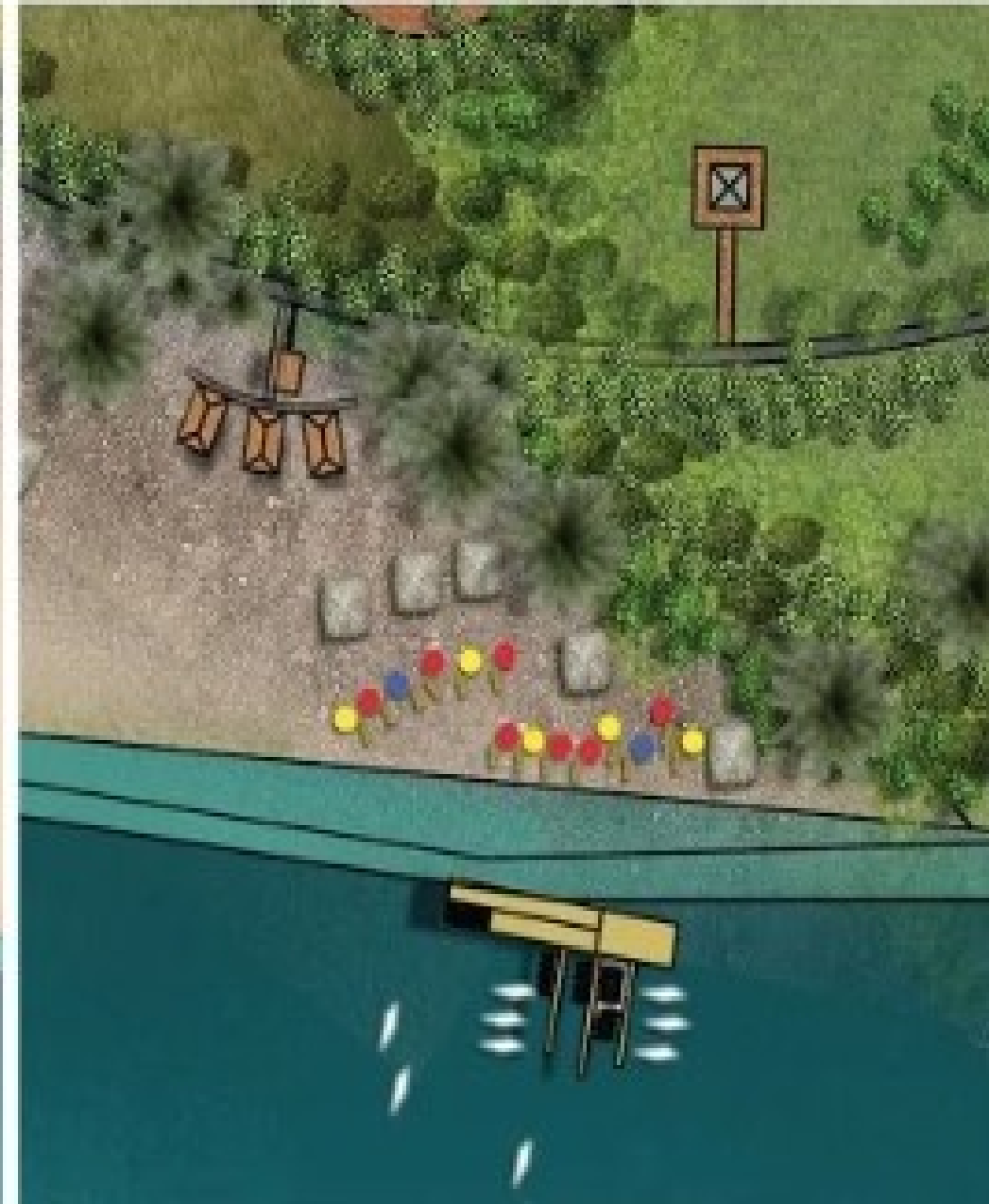
Urban Design of Amusement Park, Moinot Ghat, Mahmudpur, Kushumhati- Dohar Upazila



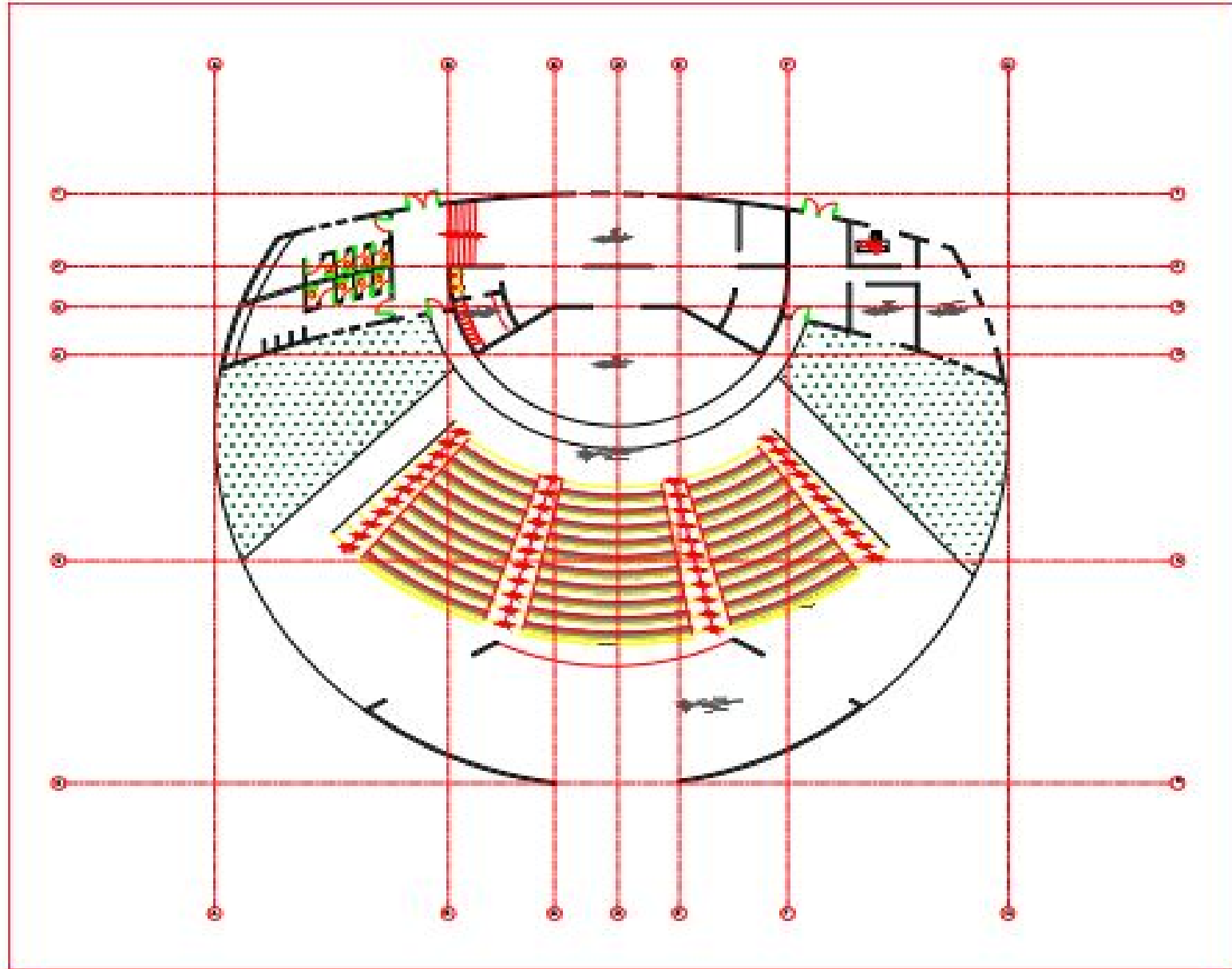
Urban Design of Resort, Moinot Ghat, Mahmudpur, Kushumhati- Dohar Upazila



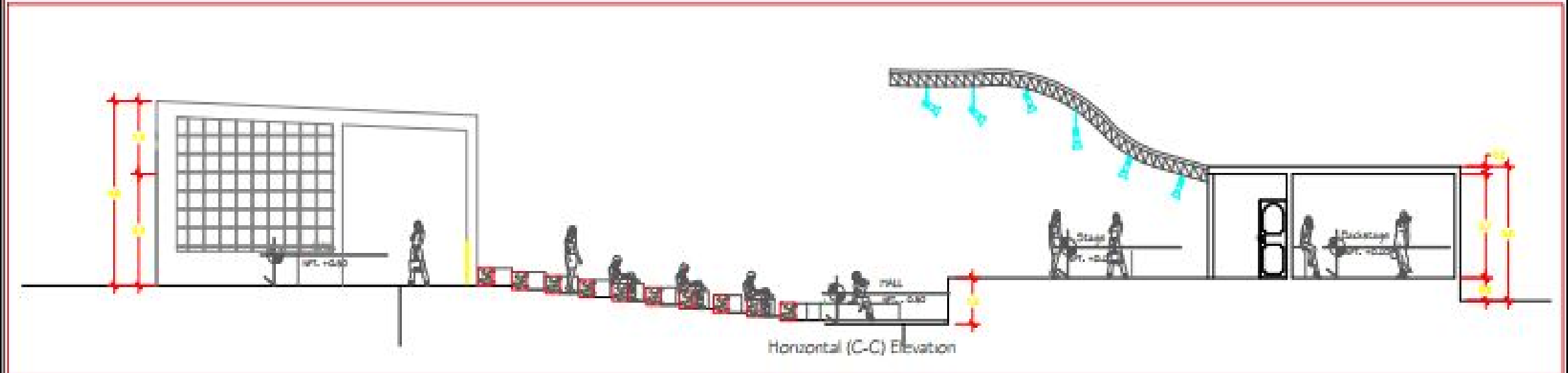
Urban Design of Beach of Mini Cox's Bazar, Moinot Ghat, Mahmudpur, Kushumhati- Dohar Upazila



Urban Design of Amphitheatre at Ward No. 4, Joypara Mouza -Dohar Upazila



Horizontal X-section of Amphitheatre at Ward No. 4, Joypara Mouza -Dohar Upazila

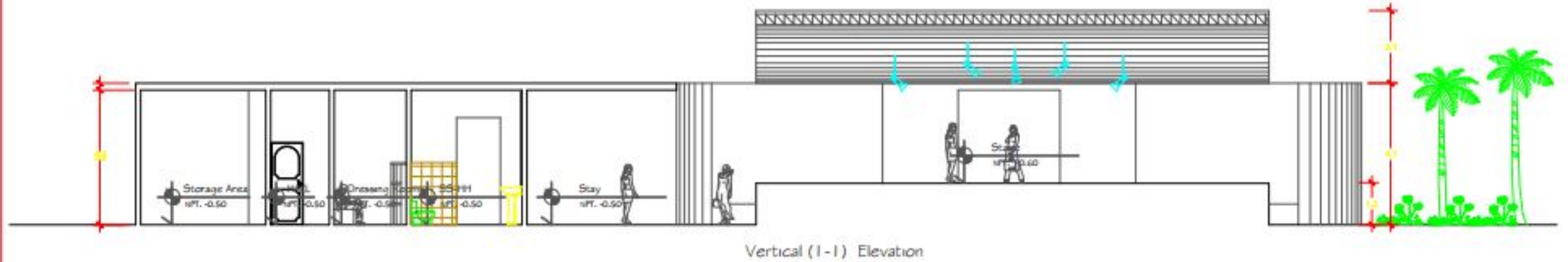


Vertical X-section of Amphitheatre at Ward No. 4, Joypara Mouza -Dohar Upazila

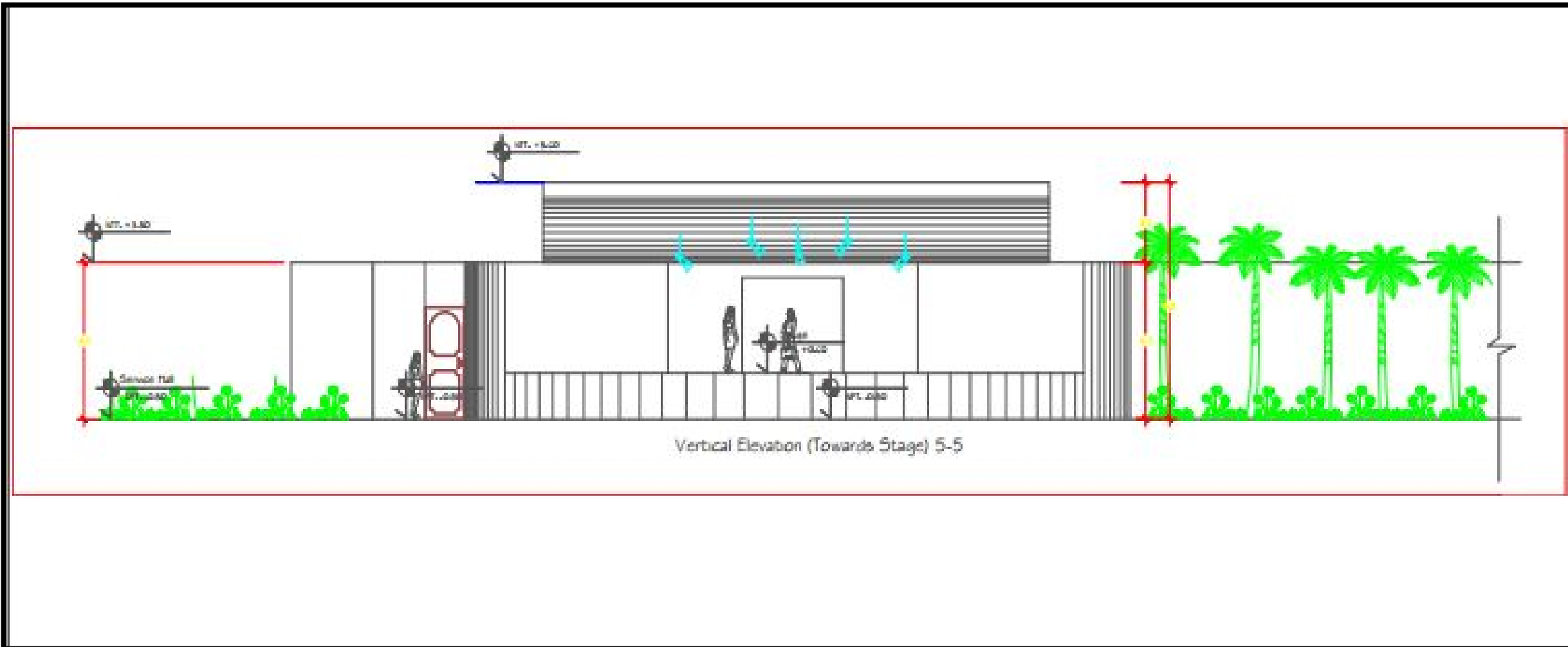


Vertical (Front) Elevation 4 - 4

Vertical Elevation of Amphitheatre at Ward No. 4, Joypara Mouza -Dohar Upazila



Vertical Elevation (Towards Stage) of Amphitheatre at Ward No. 4, Joypara Mouza -Dohar Upazila



Typical Urban Design of Growth Centre/Market Place -Dohar Upazila



For Detail ,please visit our official website:

www.14upazila.udd.gov.bd

Website of 14 Upazila Project is ready to provide One Stop Plan Related Services for All

www.14upazilaudd.gov.bd/v3/

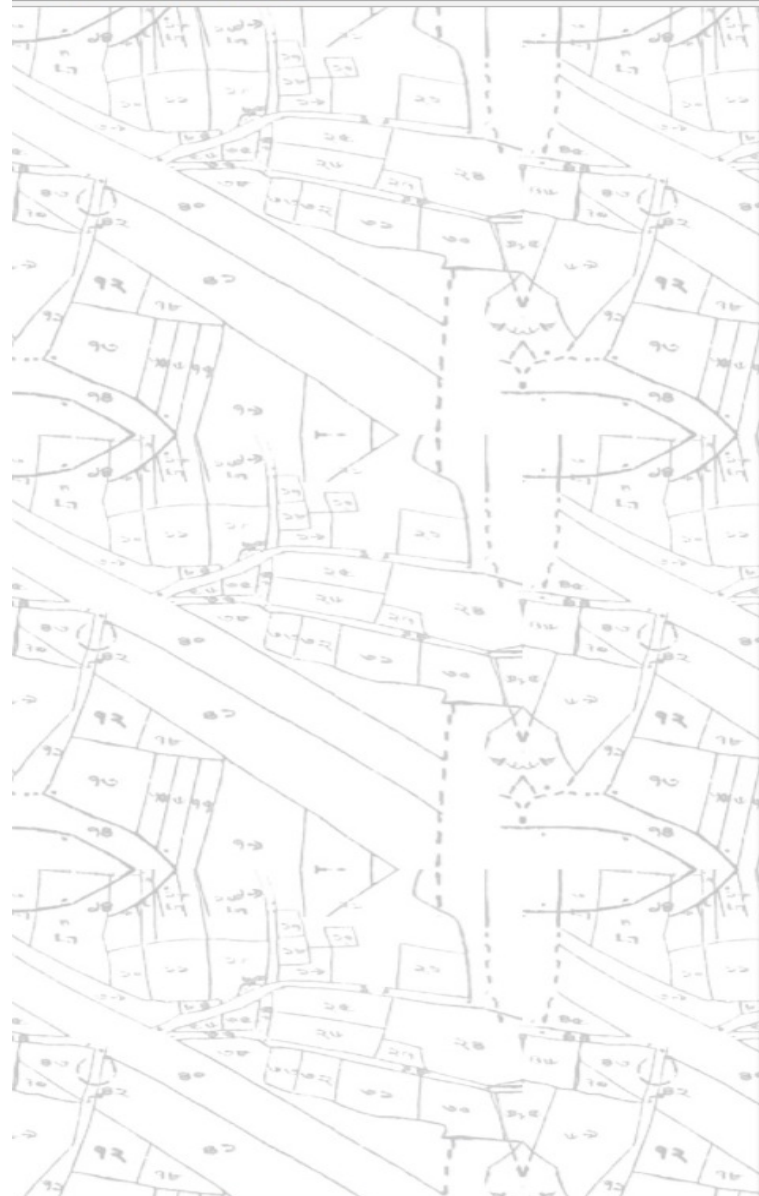




Image Gallery | Video Gallery

**Preparation of Development Plan for 14 Upazilas**
Urban Development Directorate (UDD)

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- Draft Final Plan - Ramu Upazila
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- Final Participatory Rural Appraisal Report of Shibpur Upazila, Narsingdi

Recent Activities

- Pictures of Draft Plan Workshop of Raipura Upazila Package 2
- Pictures of Draft Plan Workshop of Shibpur Upazila Package 2
- Minutes of Draft Plan Workshop of Raipura Upazila Package 2
- Minutes of Draft Plan Workshop of Shibpur Upazila Package 2
- Minutes of Workshop In UDD of Preparation of Development Plan for 14 Upazilas

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News

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- Workshop of Final Plan of Rangunia Upazila (Package-05), Chittagong, Date:14-03-2018
- Draft Mauza Database of Project Area
- Draft Urban GIS Database
- Upgraded Urban GIS Database

Photo Gallery



**Welcome to Presentation-2 on
Administrative aspects.....**



THANKS for listening.....