

**Welcome to The Presentation  
on**

**Physical Feature , Land Use & Topographic Survey  
using  
(GIS & Photogrammetry Technique)**

**Tuesday 30, August, 2016**

# Survey Coverage

- Physical Feature Survey
  - ✓ Installation of BM pillars
  - ✓ Physical Features Survey Using **Base Map** (Mauza + SOB Topo+ Satellite Image)
  - ✓ Information Collection of Various Physical Feature.
- Topography Survey
  - ✓ Land spot height survey using RTK GPS
  - ✓ Photogrammetry Technique
- Land Use Survey
  - ✓ Land use survey on Base Map
  - ✓ Plot to plot survey

# Project Area for Package 2

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**ISHWARGANJ UPAZILA**  
**SHIBPUR UPAZILA**  
**RAIPURA UPAZILA**

**ISHWARGANJ UPAZILA**

**Legend**

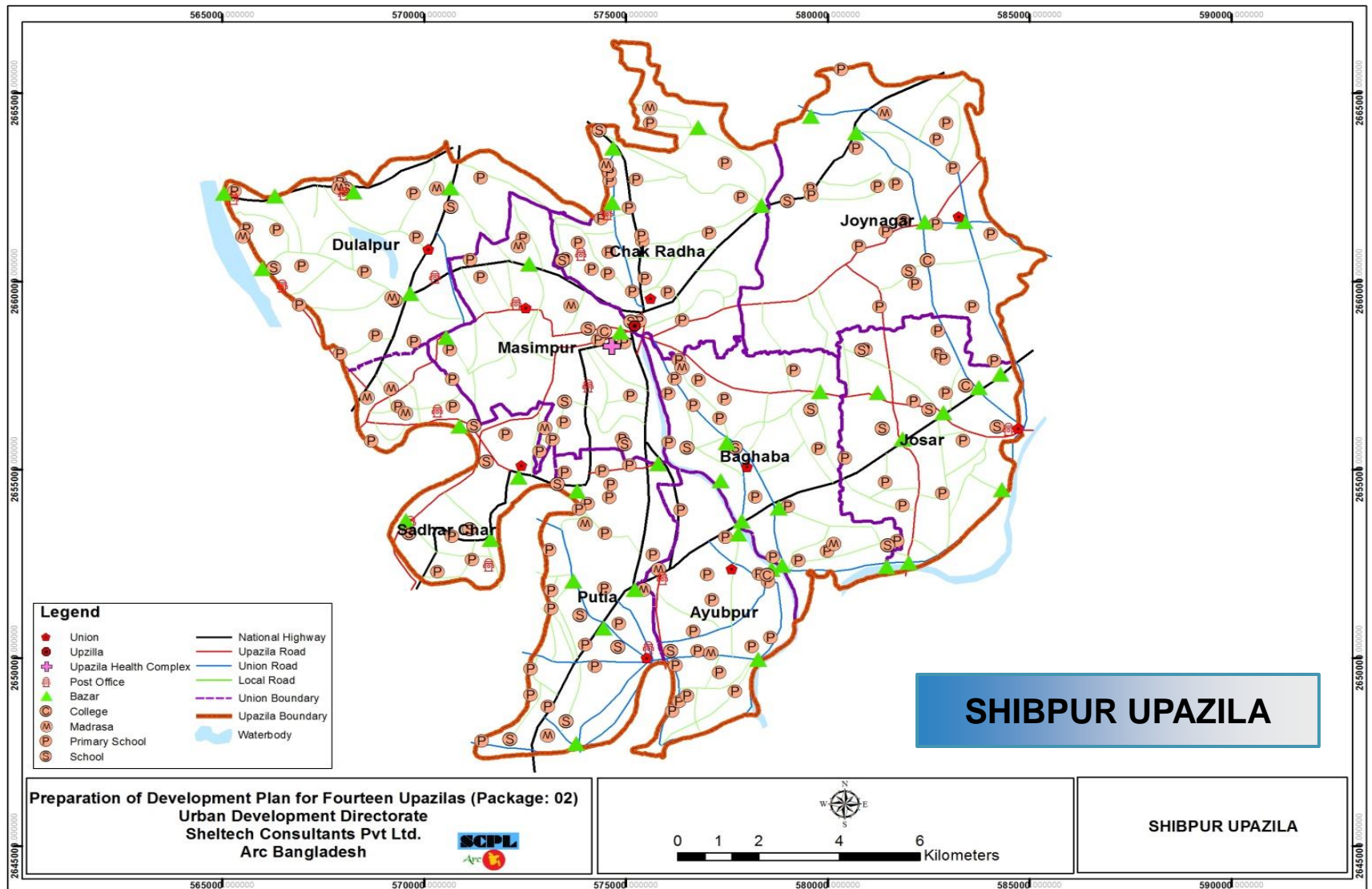
- District HQ
- Thana HQ
- Union HQ
- Growth Centre
- Small Bazar
- Police Station
- Thana Health Complex
- Family welfare Centre
- College
- High School
- Primary School
- Mosque
- Sluice / Regulator
- National Highways
- Feeder Road Type-A
- Feeder Road - B (Pucca)
- District Boundary
- Upazila Boundary
- Union Boundary
- Mouza Boundary
- Char Land
- Saltwater Area
- River

The map displays the administrative structure of Ishwarganj Upazila, including its boundaries, unions, and various facilities. Key geographical features like rivers and char lands are also shown. A compass rose indicates the orientation, and an inset map shows the location of Ishwarganj Upazila within Bangladesh.

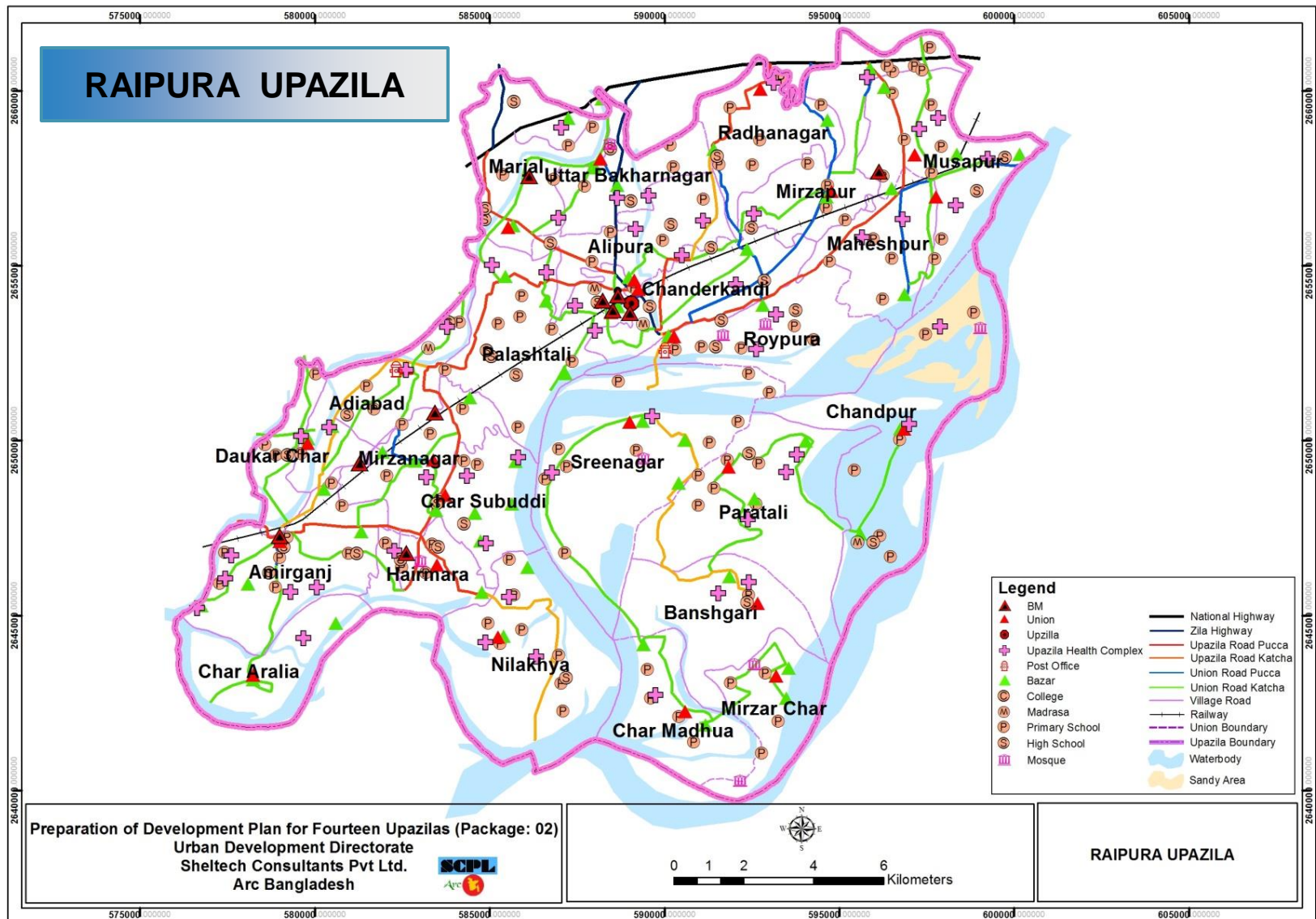
## ISHWARGANJ UPAZILA



# SHIBPUR UPAZILA



# RAIPURA UPAZILA





# BM Pillar Installation



# Steps in BM Pillar Installation

- ▶ Design of BM Pillar
- ▶ Construction of BM Pillars
- ▶ Installation of BM Pillars
- ▶ Fixing coordinate of BM Pillars using RTK base GPS & DGPS techniques

[illegible]



# Construction of BM Pillars

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# BM Site Selection Criteria

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- » The site is suitable for RTK-GPS/DGPS observation. There exists Good Sky Visibility (15 degree cut of angle above the horizon) and far from mobile tower or high voltage electric line.
- » The site is located on undisturbed location due to natural or human activities
- » The site is located on such a place that is suitable to set up Total Station equipment in future work.
- » The site is located on a corner of government own land, playground, school or beside of road for sustainability

# Information of Reference BM

## Ishwarganj

Sl No.	Point ID	WGS-84		RL	Location of pillar
		Latitude	Longitude		
1	GPS 2227	24°37'55.58164"	90°43'05.68096"	8.6030	<p>The pillar is situated in the compound of Atharabari Model Primary School. It is 38 meter west from kishoreganj-kendua road and north – west corner of a tank.</p> <p>Vill: Atharabari, Upazila: Ishwarganj, District: Mymensingh</p>
2	GPS 5380	24°41'28.56224"	90°35'54.44765"	11.2571	<p>The pillar is situated in north-east corner of the playground of Charoni Kholapourasabha. It is 30ft. West from idgha mimbar.</p> <p>Vill: Charonikhola, Upazila: Ishwarganj, District: Mymensingh</p>
3	GPS 5386	24°37'28.18207"	90°36'23.56232"	10.2946	<p>The pillar is situated in south-east corner of the field of Charshangkr primary School. It is 25m east from west side road.</p> <p>Vill: Charshangkr, Upazila: Ishwarganj, District: Mymensingh.</p>



# Reference BM Pillar GPS-5380 (Ishwarganj)



# Information of Reference BM

## Shibpur and Raipura

Sl No.	Point ID	WGS-84		RL	Location of pillar
		Latitude	Longitude		
1	BM 533	24°01'12 .24721''	90°48'33 .95158''	9.891	The pillar is situated in the playground of chaitannya high School on Dhaka Narsingdi road. Vill: Chaitannya, Upazila: Shibpur, Dist: Narsingdi
2	GPS 2317	24°06'29 .99146''	90°50'58 .58477''	7.6315	The pillar is situated in the south-west of Zila parishad Dak Banglow, 2.8m south-west from the south-west side boundary wall, 2.6m west from west side wall. Vill: Belabo, Upazila: Belabo, Dist: Narsingdi.
3	GPS 3533	23°53'02 .77343''	90°58'10 .38328''	6.6094	The pillar is situated in Nabingar, pilot High School ground & south side of the field. It is about 75m West from main road. Vill: Nabinagar, Upazila: Nabinagar, Dist: Brahmanbari

# Reference BM Pillar BM 533 (Shibpur and Raipura Upazila)





# Installed BM Pillars

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# RTK-GPS Observations on BM Pillars

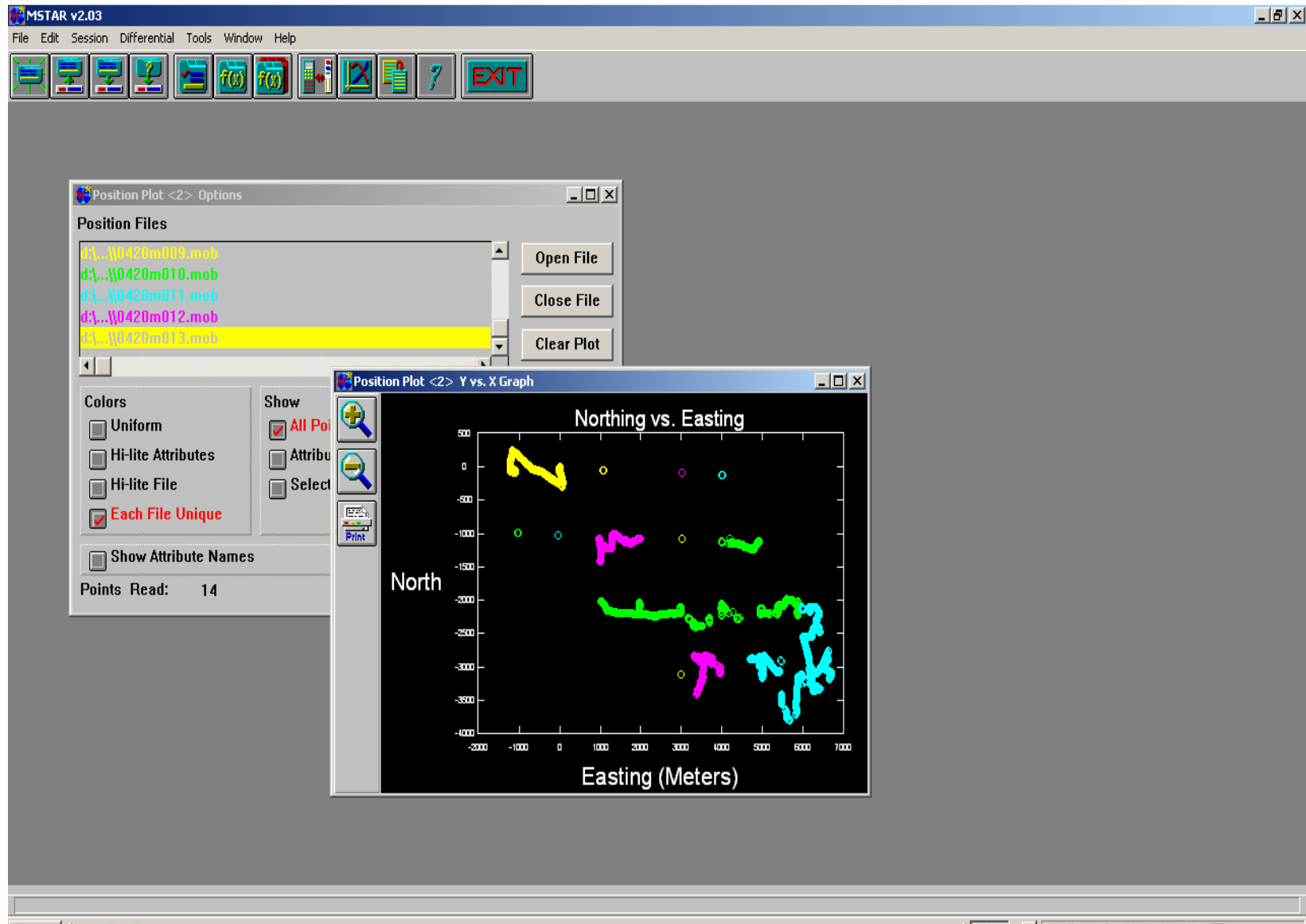
BASE



ROVER



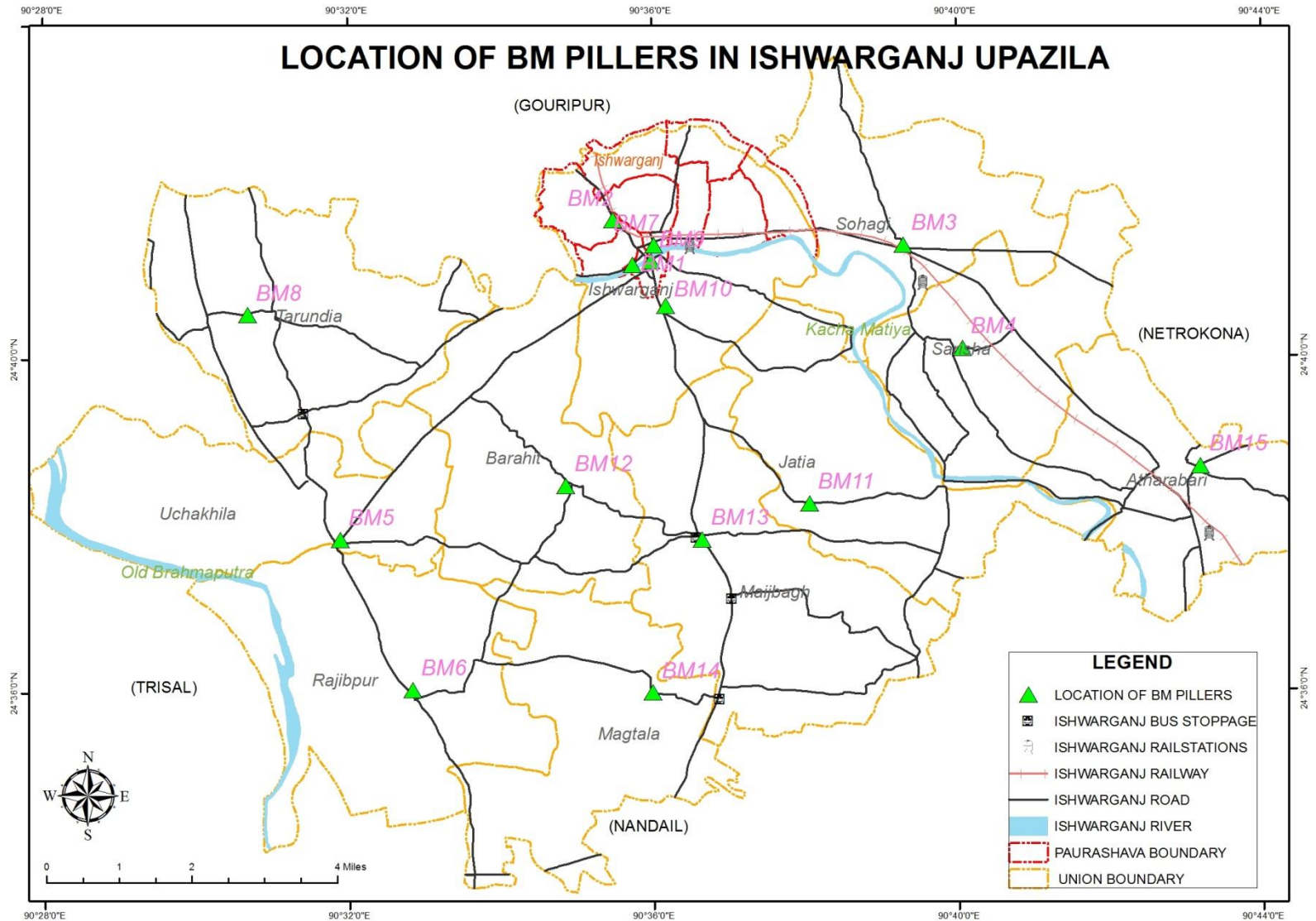
# Post Processing of GPS Data





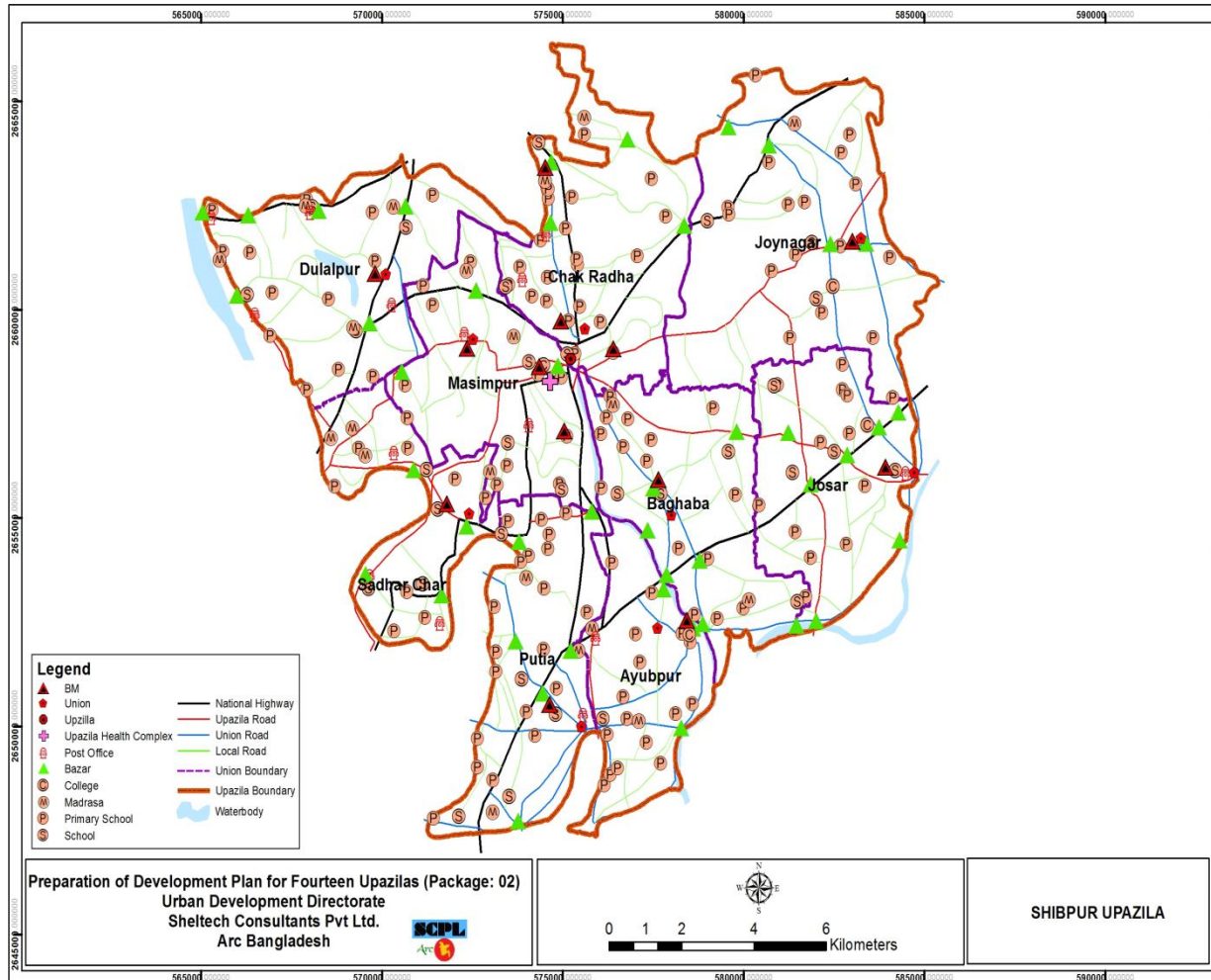
# BM Location Map

## Ishwarganj



# BM Location Map

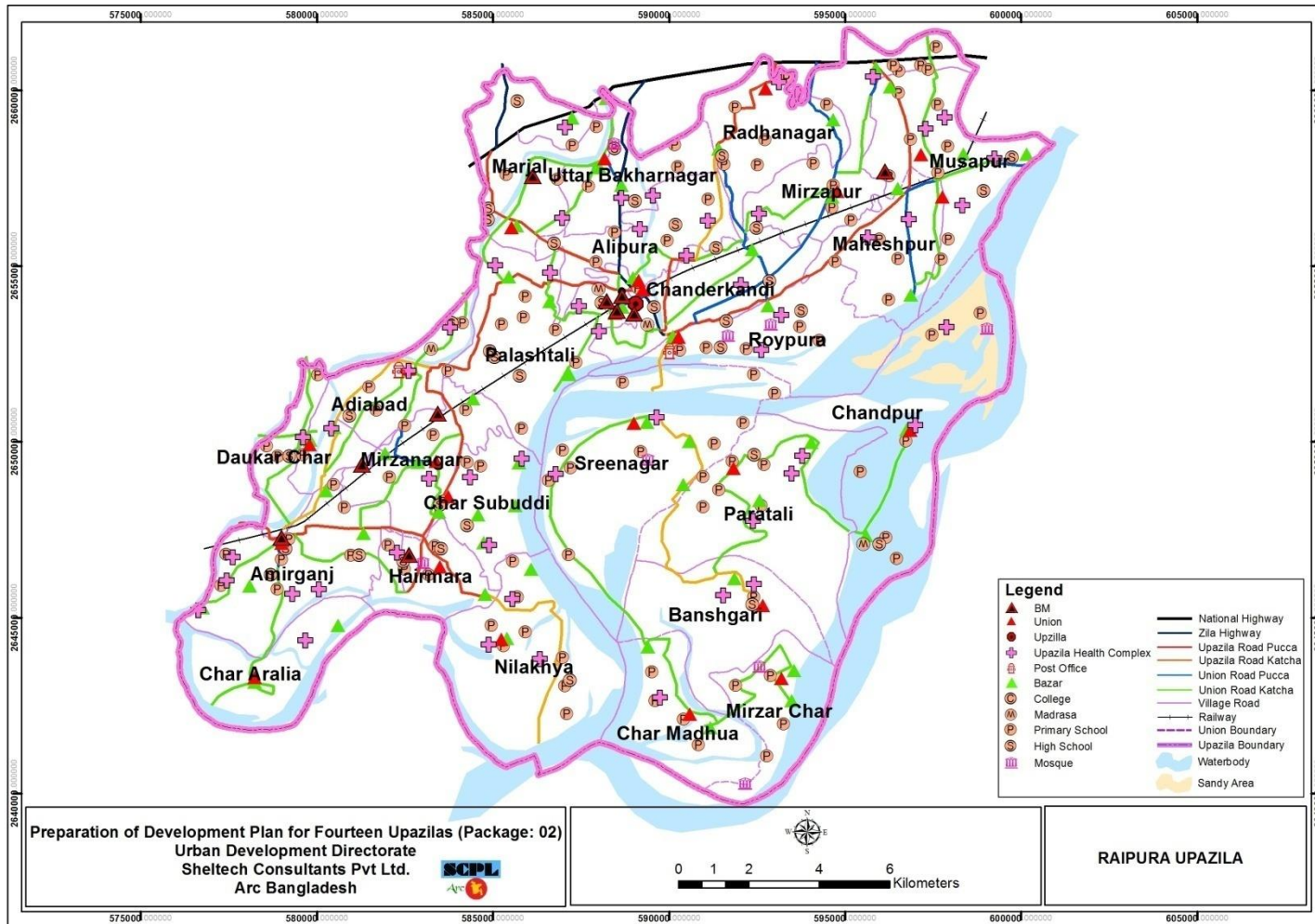
## Shibpur





# BM Location Map

## Raipura



# Steps at BASE MAP Preparation

- **Collection of Mauza Maps**
- **Authentication of Mauza Maps**
- **GCP Collection**
- **Scanning, Geo-referencing, Digitizing, Check Plots**
- **Mosaic Study Area Map Preparation**
- **Satellite Image Collection**
- **SOB Topo+ Mauza + Satellite Image as Base Map**

# Statistics of collected Mauza Maps

## Ishwarganj, Shibpur and Raipura Upazila

Collected, Authenticated, Scanned, Digitized, Geo-referenced)

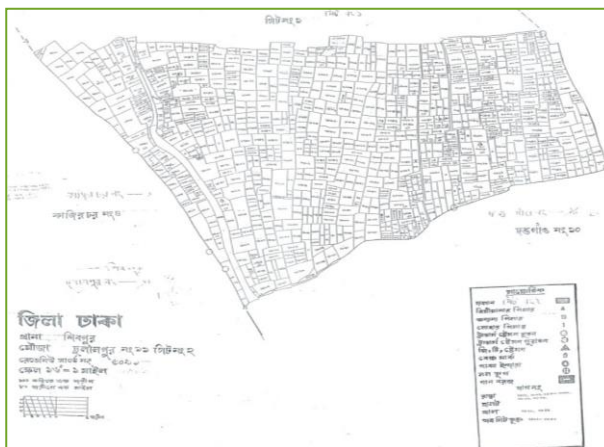
Upazila	Mauza Maps		Percentage
	Total No. of Hard Copy Collected	Total No of Scanning	
Ishwarganj	364	364	100%
Shibpur	171	171	100%
Raipura	246	246	100%
<b>Total</b>	<b>781</b>	<b>781</b>	<b>100%</b>

# Mauza Maps

## Ishwarganj



## Shibpur



## RAIPURA





# GCP Survey for geo-referencing **Mauza Maps**



# Coordinate System: BUTM2010

Projection	:	Transverse_Mercator
False_Easting	:	500000.00000000
False_Northing	:	0.00000000
Central_Meridian	:	90.00000000
Scale_Factor	:	0.99960000
Latitude_Of_Origin	:	0.00000000
Linear Unit	:	Meter

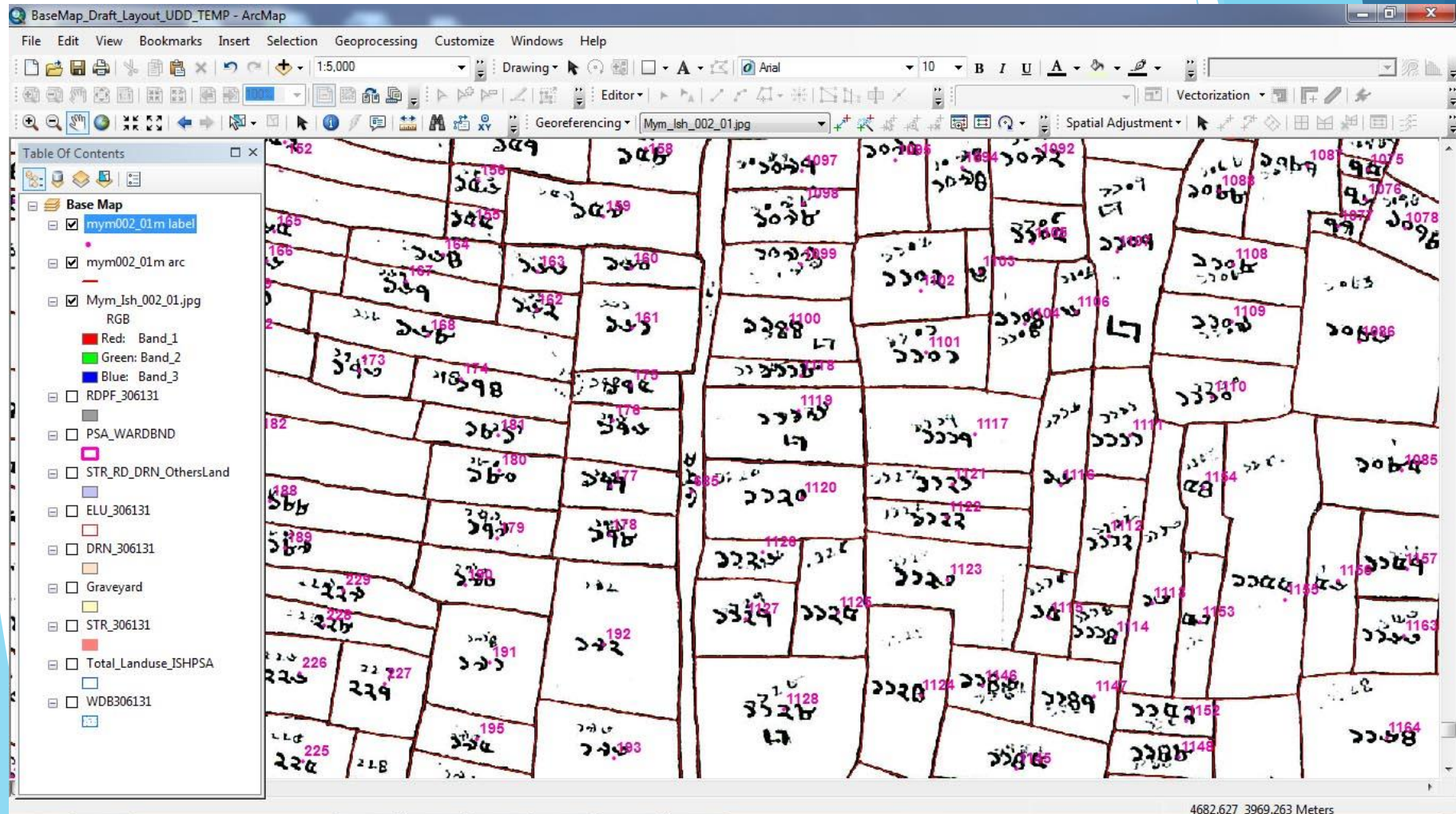
Map of Ishwarganj, Shibpur and Raipura Upazila. The map shows a dense network of roads and buildings. A legend box is located in the bottom left corner, containing text in Bengali. Above the legend, there is a scale bar and some text. The map is oriented with North at the top.

## Ishwarganj, Shibpur and Raipura Upazila



# Digitization of Mauza Maps

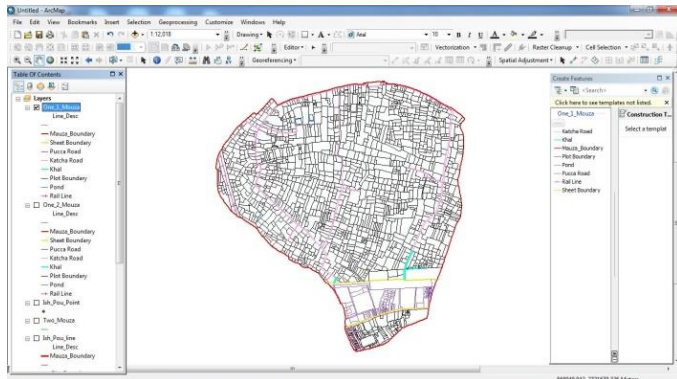
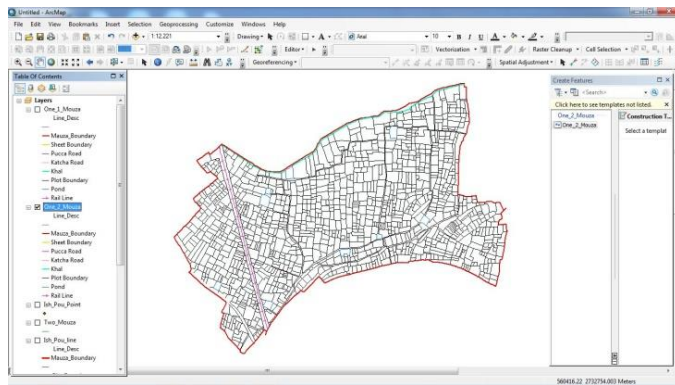
Ishwarganj, Shibpur and Raipura Upazila



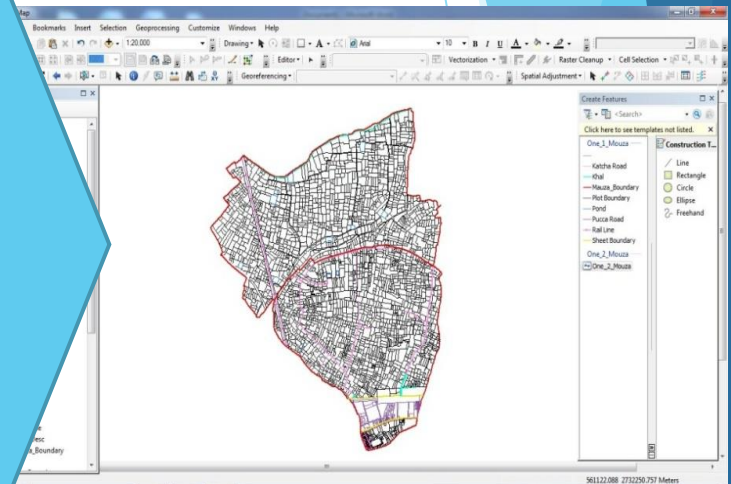


# Edge-matching of Mauza Maps

**Before Edge-matching**



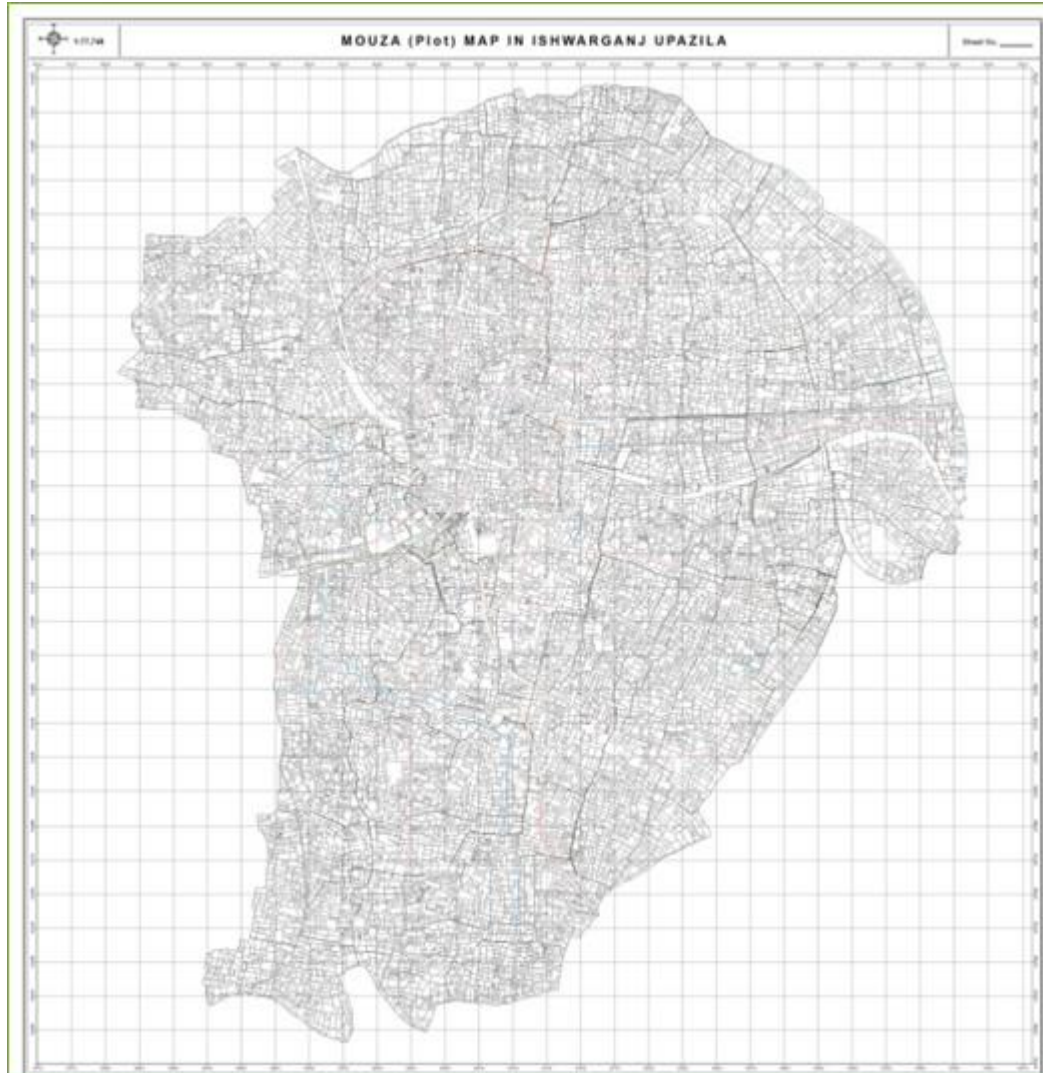
**After  
Edge-  
matching**



**Ishwarganj, Shibpur and Raipura Upazila**

# Mauza Edge Matched Project AREA

## ISHWARGANJ UPAZILA




# SHIBPUR UPAZILA

# RAIPURA UPAZILA

# Satellite Image Collection

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## Ishwarganj, Shibpur and Raipura Upazila



0.5 meter  
Stereo  
Pair

Image Sensor	: Plediades 1A
Type	: Ortho ready stereo (3D)
Resolution	: 0.5m Panchromatic, 2.0 meter Multispectral
Source	: New Acquisition, 10 <sup>th</sup> December 2015
Area	: Urabn 300 Sq. km. and 560 Sq. km.Rural
Company	: Airbus Defence and Space

# Processing of Satellite Image

## Work Flow

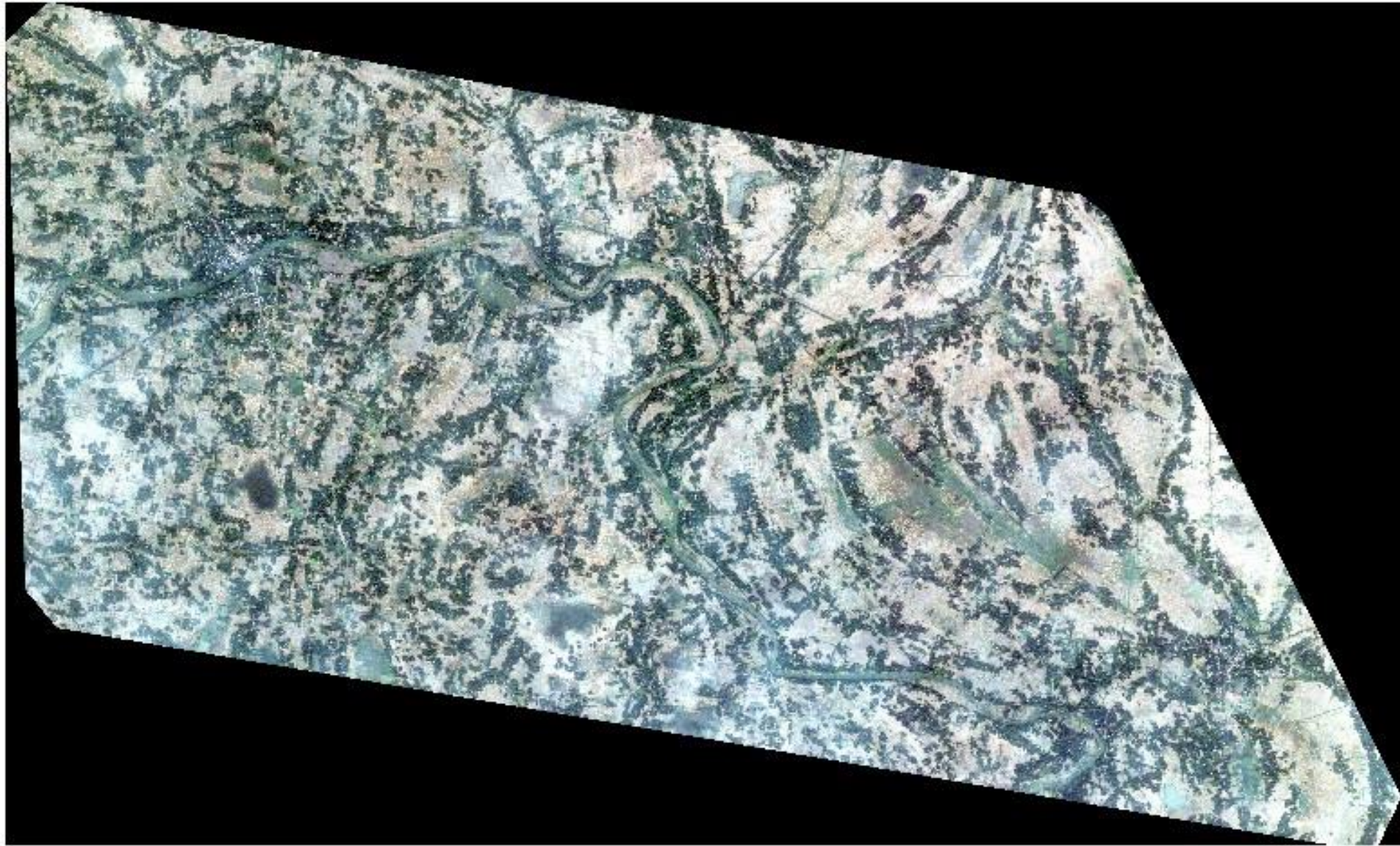
- aerial triangulation measurements
- block adjustment for central projection images
- block adjustment for satellite scanner images
- DTM creation
- dense DSM generation algorithm
- 3D feature extraction in stereo-mode and 3D modeling
- orthomosaicking
- digital map creation

Orthorectified  
Satellite  
Imagery



# Orthorectified Satellite Imagery

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# Base Map (Orthorectified Satellite Imagery +Mauza Map)

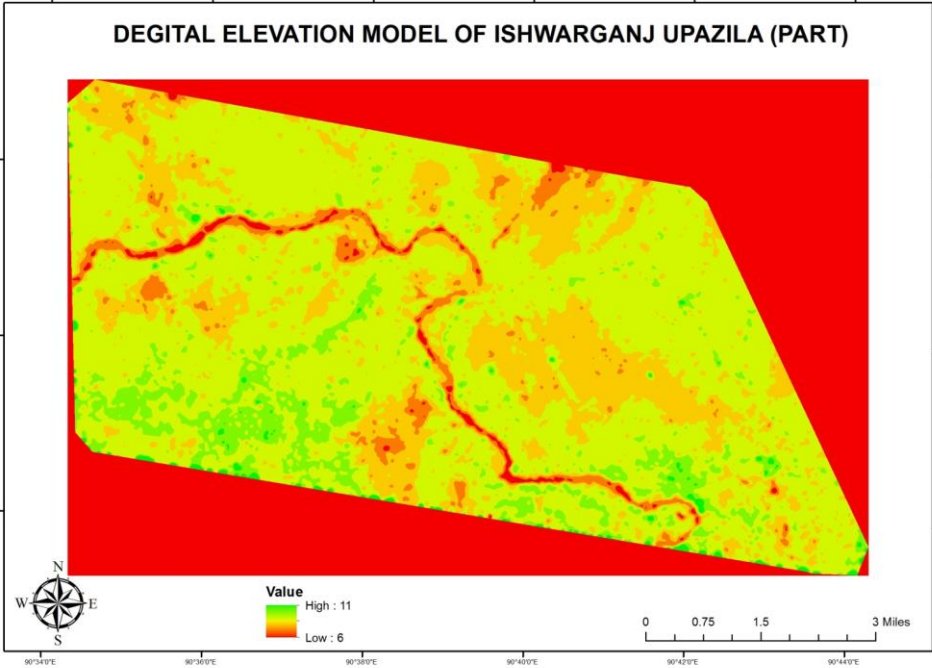




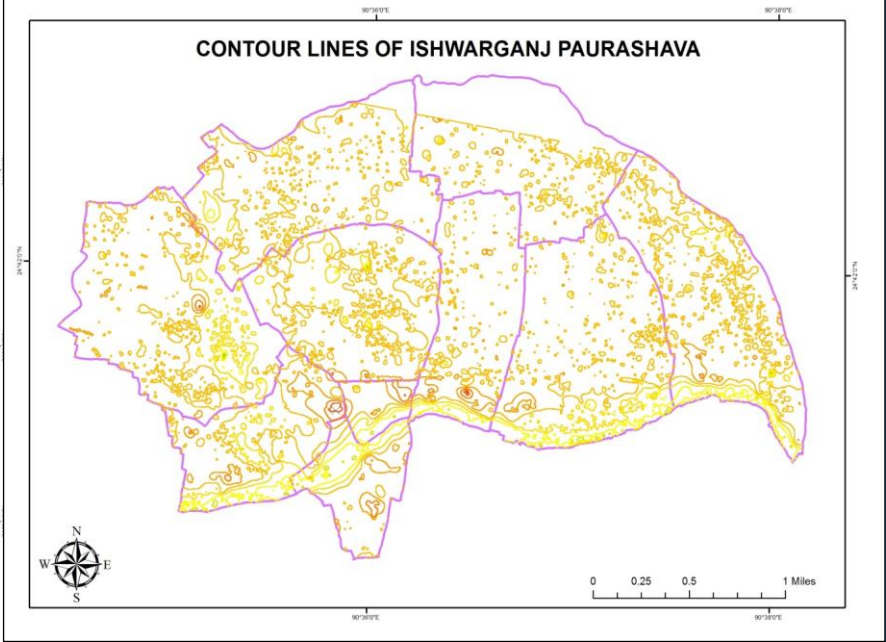
# Digital Elevation Model (DEM) and Contours Generation

## Ishwarganj Upazila

DEM



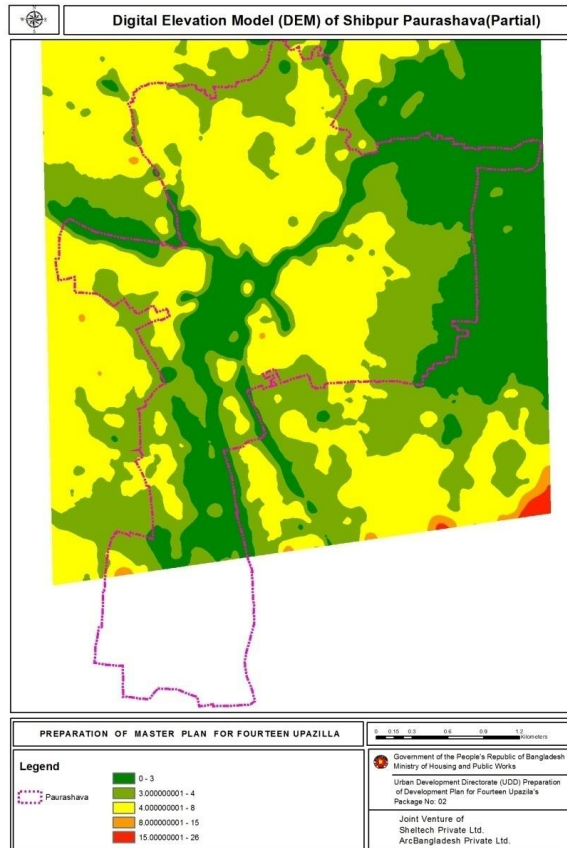
Contours



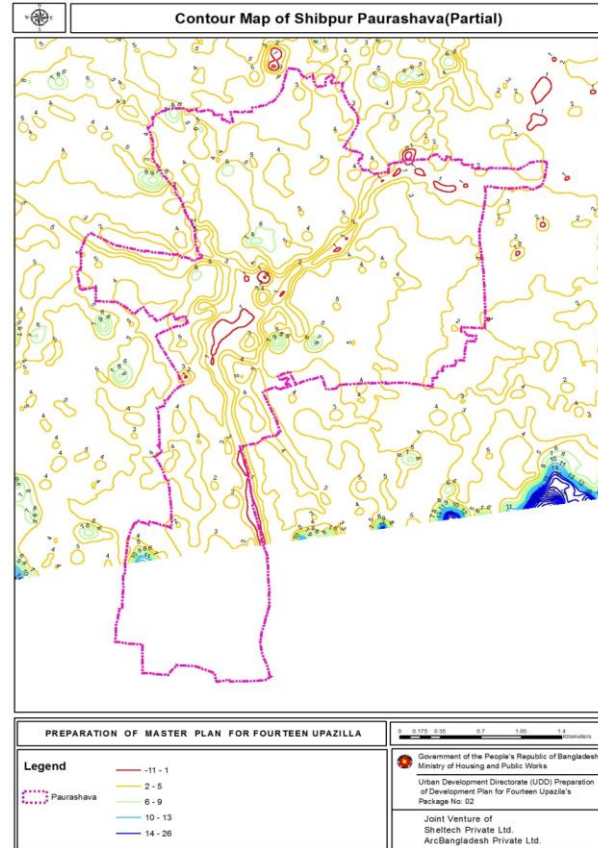
# Digital Elevation Model (DEM) and Contours Generation

## Shibpur Paurashava (Partial)

DEM



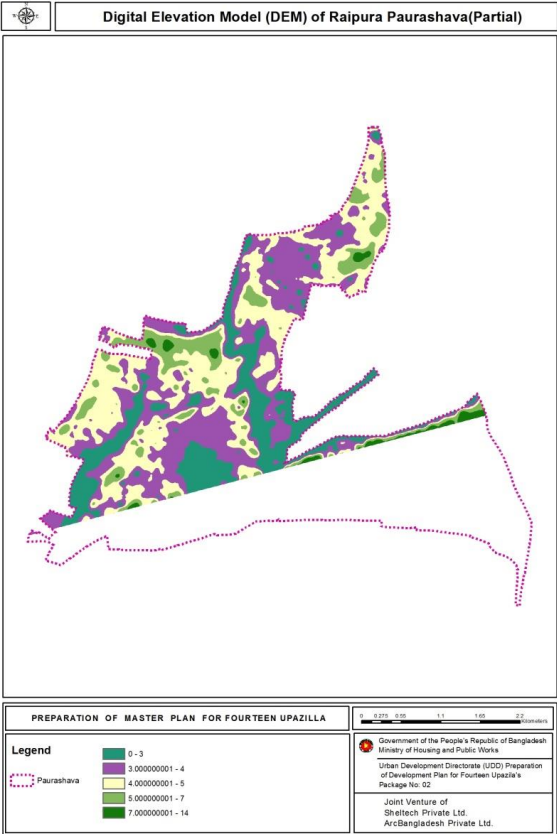
Contours



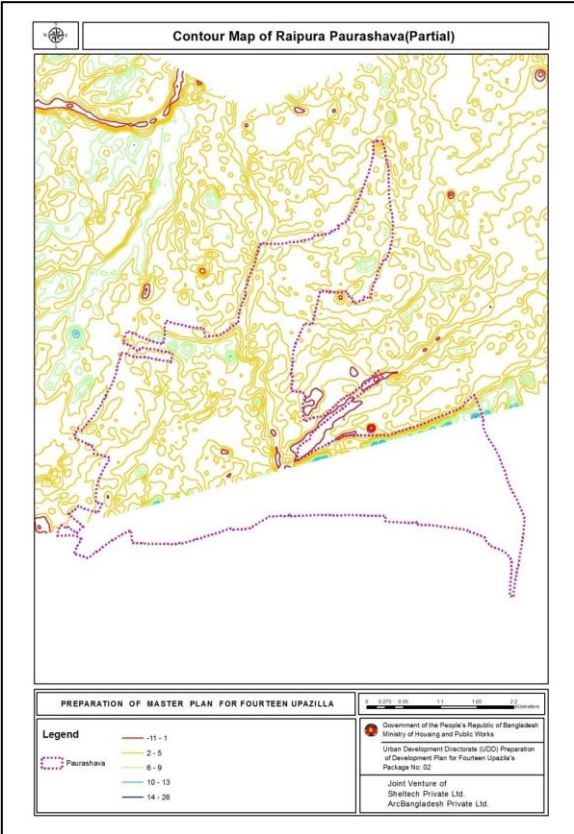
# Digital Elevation Model (DEM) and Contours Generation

## Raipura Paurashava (Partial)

DEM



Contours

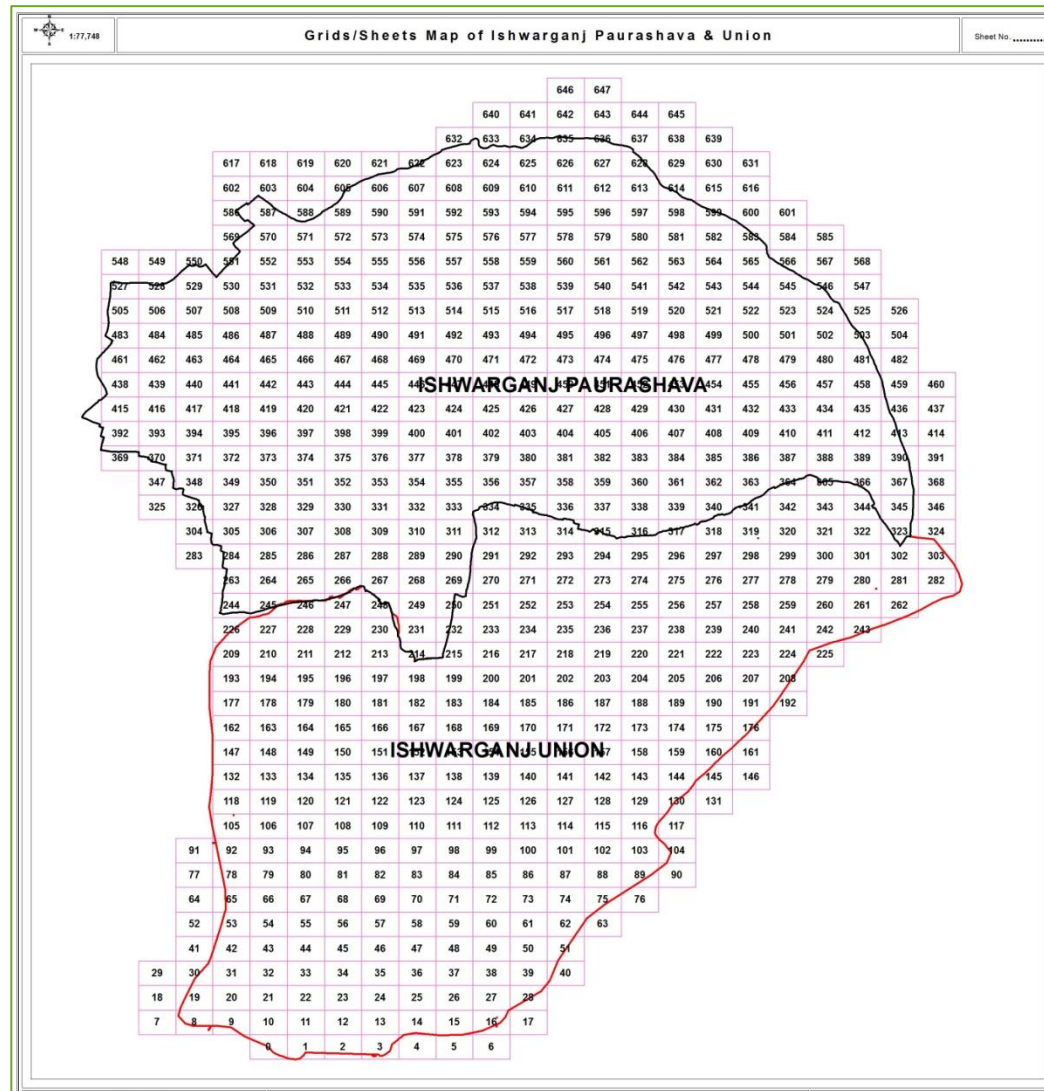


The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light sky blue to deep navy blue. These shapes are primarily located on the right side of the image, creating a modern, architectural feel. The text is positioned on the left side of the image, set against a plain white background.

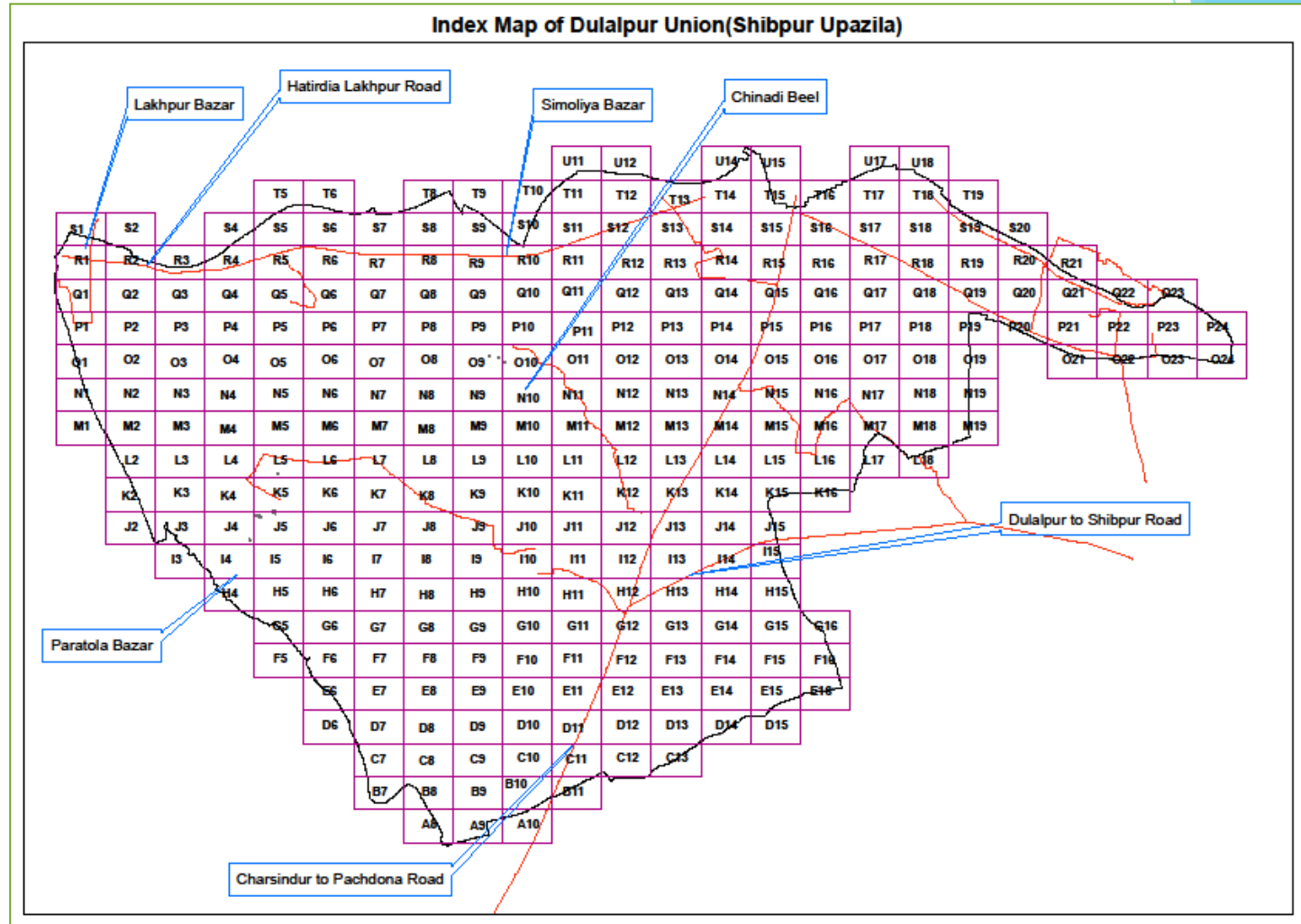
Physical Infrastructure Survey  
Topographic Survey  
Land Use Survey



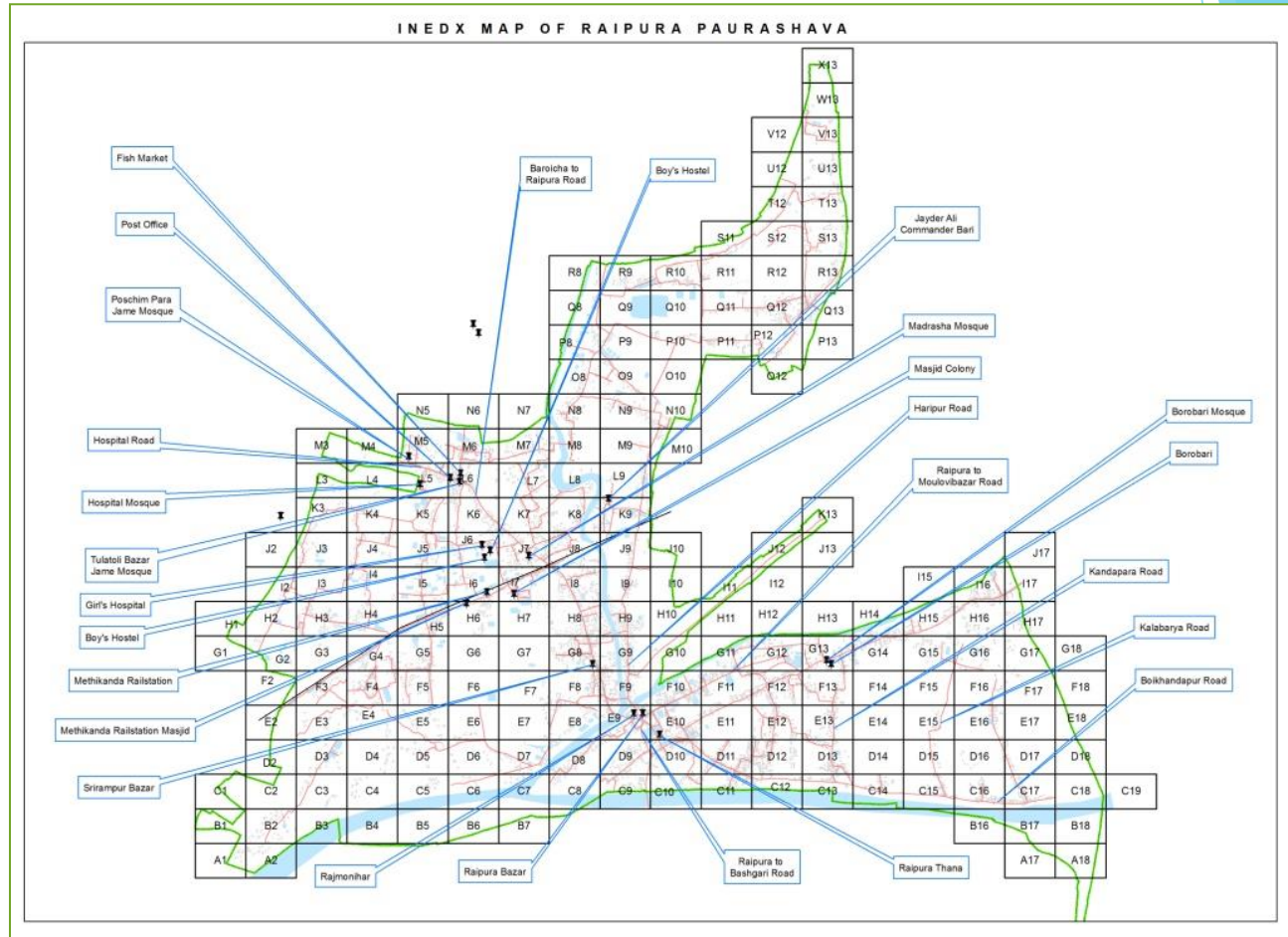
# Working Grids for Ishwarganj Upazila



# Working Grids for Shibpur Upazila



# Working Grids for Raipura Upazila







# Field Activities of Survey Work

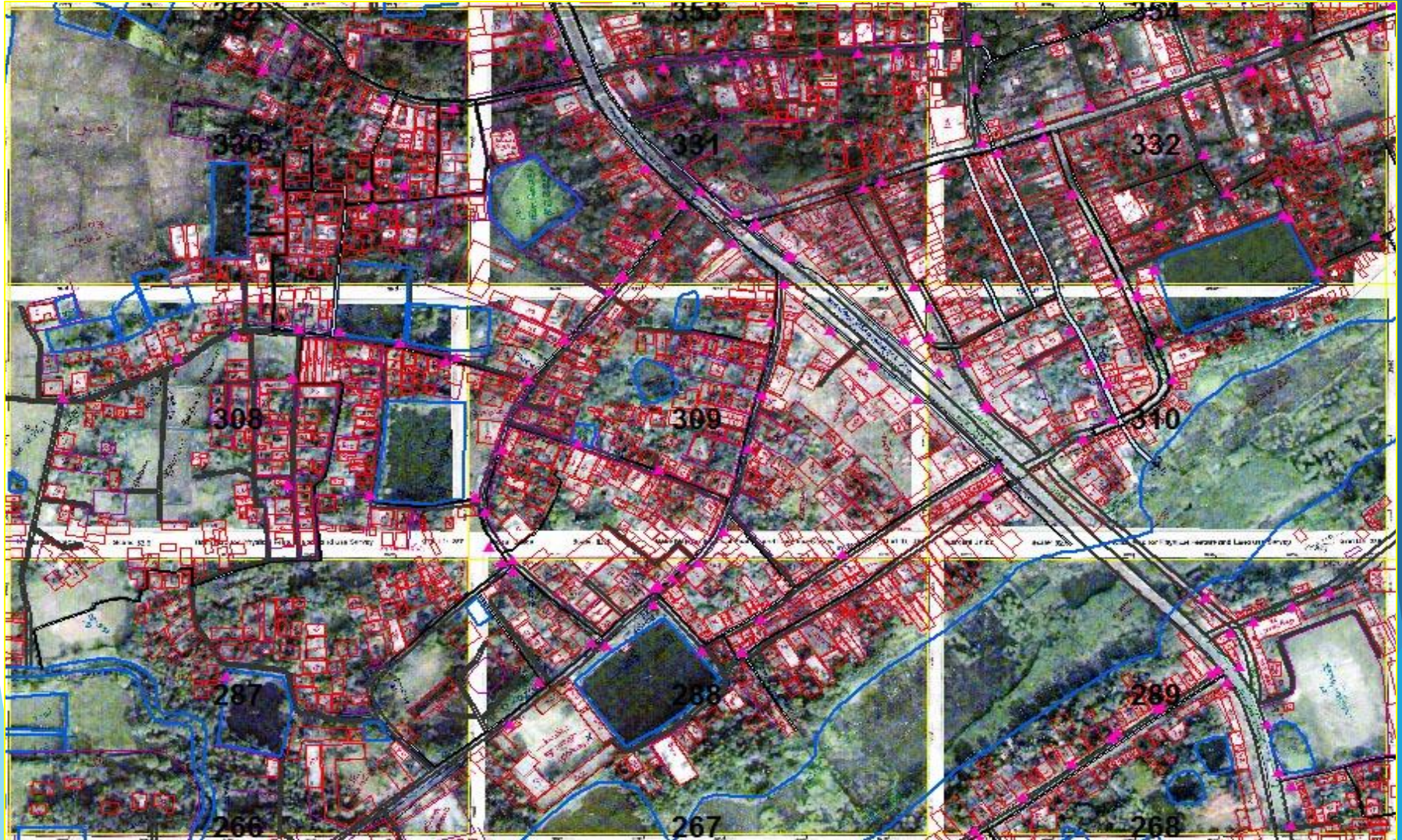
## Ishwarganj, Shibpur and Raipura Upazila





# Physical Survey

Ishwarganj Upazila





# Physical Survey (Attribute)

## Ishwarganj Upazila

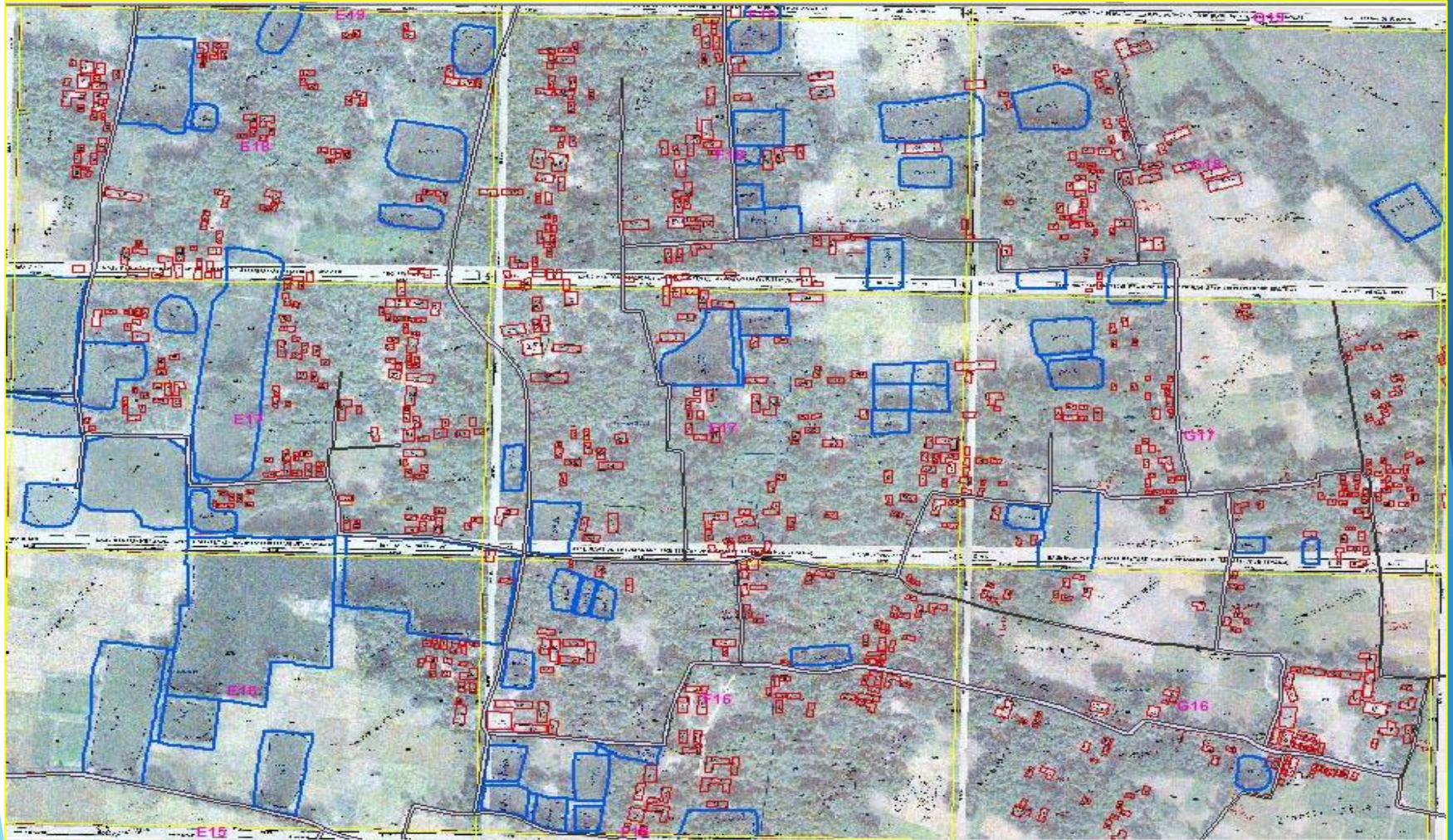
Upazila: ISHWARGANJ		Union: ১৩১৮		Ward No: ১৫		Grid ID: ১০		Data Type: Structure		Preparation of Development Plan for 14 Upazilas (Package-2) Urban Development Directorate, Ministry of Housing and Public Works Physical Feature and Landuse Survey				Date: ১১-৭-১৬		Name of Surveyor: সাজেদ		Name of Supervisor: [Signature]	
ID	Type	Store	Structure Use	Structure Name	Owner Name	Owner Cell No	Construction Year	Holding No	Plot No, Mauze Name	Road Name	Locality								
১	P	-	৮৮	-	-	-	-	-	১১১১১১	১১১১১১	Ishwarganj								
২	-	-	৮৮	-	-	-	-	-	-	-	"								
৩	-	-	৮৮	-	-	-	-	-	-	-	"								
৪	P	০১	অস্বাদ	অস্বাদ	-	-	-	-	১১১১১১	১১১১১১	১১১১১১								
৫	P	০১	দোতলা	-	-	-	-	-	১১১১১১	১১১১১১	"								
৬	P	০১	৮৮	-	-	-	-	-	-	-	"								
৭	P	০১	৮৮	-	-	-	-	-	-	-	"								
৮	P	০১	৮৮	-	-	-	-	-	-	-	"								
৯	P	০১	৮৮	-	-	-	-	-	-	-	"								
১০	P	০১	৮৮	-	-	-	-	-	-	-	"								
১১	P	০১	৮৮	-	-	-	-	-	-	-	"								
১২	P	০১	৮৮	-	-	-	-	-	-	-	"								
১৩	P	০১	৮৮	-	-	-	-	-	-	-	"								
১৪	P	০১	৮৮	-	-	-	-	-	-	-	"								
১৫	P	০১	৮৮	-	-	-	-	-	-	-	"								
১৬	P	০১	৮৮	-	-	-	-	-	-	-	"								
১৭	P	০১	৮৮	-	-	-	-	-	-	-	"								
১৮	P	০১	৮৮	-	-	-	-	-	-	-	"								
১৯	P	০১	৮৮	-	-	-	-	-	-	-	"								
২০	P	০১	৮৮	-	-	-	-	-	-	-	"								

Code of Structure Type : Kacha = K, Semi Pucca = SP, Pucca = P



# Physical Survey

## Shibpur Upazila





# Physical Survey (Attribute)

Shibpur Upazila

ID	Type	Storey	Structure Use	Structure Name	Owner Name	Owner Cell No	Construction Year	Holding No	Plot No, Muz: Name	Road Name	Locality
১৭	P	২	আবাসিক/আবাস	আবাসিক/আবাস	আবাসিক/আবাস	০১৭৭৭৭৭৭৭৭			১৭৭৭৭৭৭৭৭৭	১৭৭৭৭৭৭৭৭৭	১৭৭৭৭৭৭৭৭৭
১৮	S.P	১	আবাসিক	আবাসিক	আবাসিক/আবাস				১	১	১
১৯	S.P	১	আবাসিক	১	আবাসিক/আবাস				১	১	১
২০	S.P	১	১	১	১				১	১	১
২১	S.P	১	আবাসিক	আবাসিক	আবাসিক	০১৭৭৭৭৭৭৭৭		১৬	১	১	১
২২	S.P	১	১	১	আবাসিক	০১৭৭৭৭৭৭৭৭		১৬	১	১	১
২৩	S.P	১	১	১	আবাসিক			১৬	১	১	১
২৪	S.P	১	১	১	আবাসিক	০১৭৭৭৭৭৭৭৭		১৬	১	১	১
২৫	১	১	১	১	আবাসিক			১৬	১	১	১
২৬	১	১	১	১	আবাসিক	০১৭৭৭৭৭৭৭৭		১৬	১	১	১
২৭	১	১	১	১	আবাসিক			১৬	১	১	১
২৮	১	১	১	১	আবাসিক			১৬	১	১	১
২৯	১	১	১	১	আবাসিক			১৬	১	১	১
৩০	১	১	১	১	আবাসিক			১৬	১	১	১
৩১	১	১	১	১	আবাসিক			১৬	১	১	১
৩২	১	১	১	১	আবাসিক	০১৭৭৭৭৭৭৭৭		১৬	১	১	১

Code of Structure Type : Katcha = K, Semi Pucca = SP, Pucca = P



# Physical Survey

## Raipura Upazila





# Raipura Upazila

Date:	22-3-16
Name of Surveyor:	Sayed
Name of Supervisor:	

[illegible]

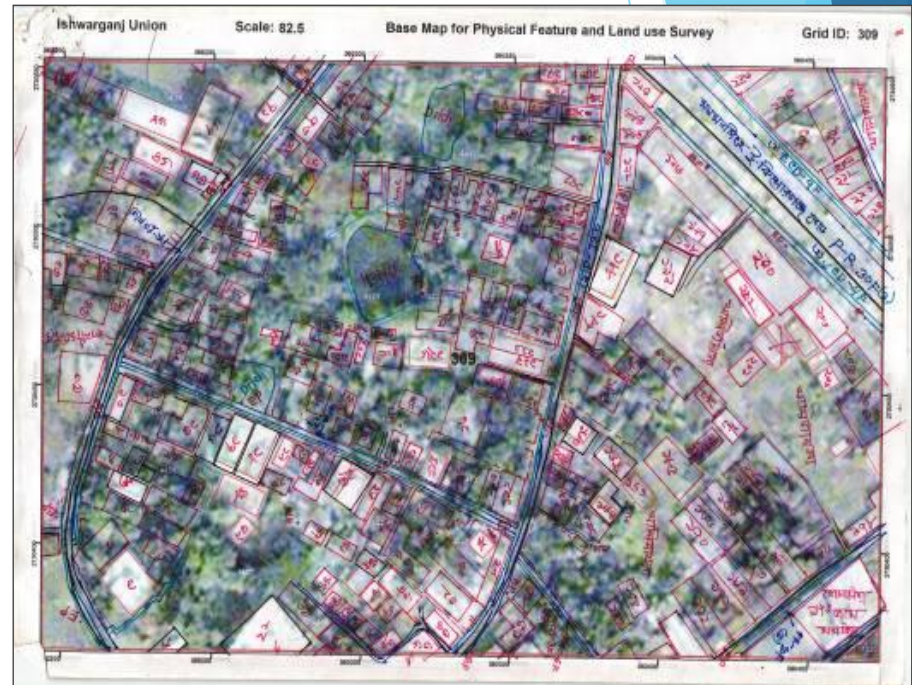
P= Pucca Road, H= HBB Road, K= Katcha Road, PP= Path Pucca , PK= Path Katcha

# Physical Features and Land use Survey

Before Survey



After Survey





# Field Verification/Ground Truthing



# Feature Extraction

Ishwarganj, Shibpur and Raipura Upazila

Structures

Road Network

Waterbodies





# Attribute Data Entry Software

Ishwarganj, Shibpur and Raipura Upazila

Data Entry of Features from Log Book

**Main**

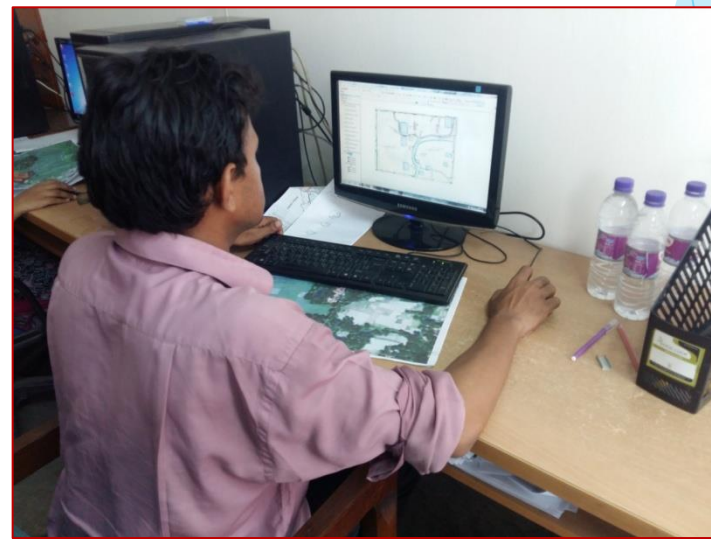
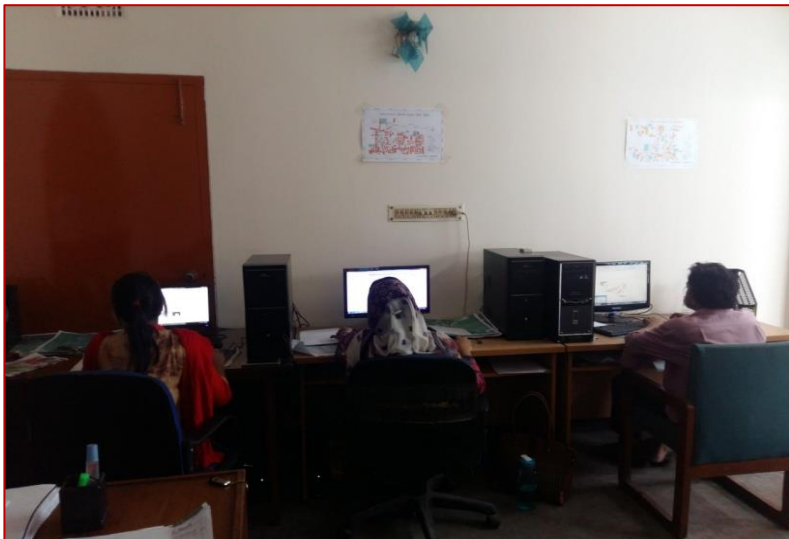
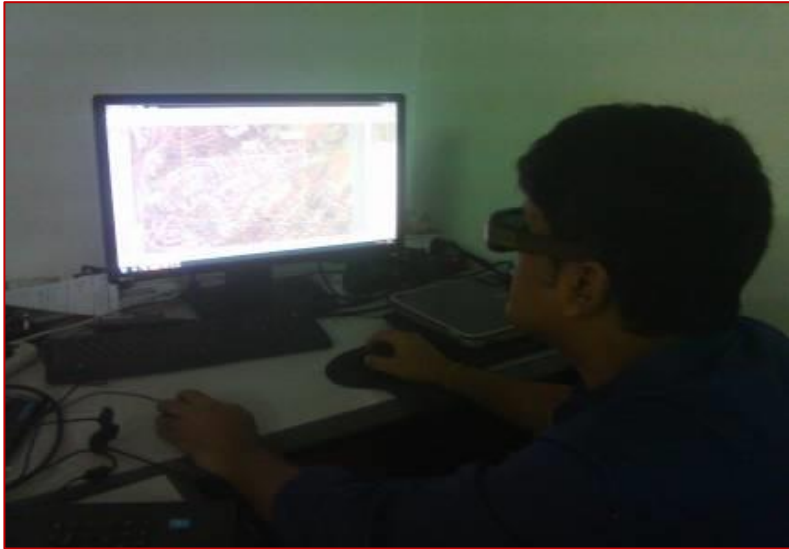
**Structure Information Collection Form**

strucID	AY24_21		
Grid No:	AY24	Wner Cell No.	
ID	21	Construction Year	2016
Type	Pacca	Holding No.	
Floor	1	Ward No.	3
Structure Use	Residential	Plot No.	ICHAMOTI,SYEDNAGAR
Structure Nme	TALUKDAR BARI	Road Name	
Owner Name	ABDUL JALIL	Locality	SYEDNAGAR PARUA

strucID	GridN	SLid	struTyp	Floor	StrUse_1	StrUse	StrNam	OwnerNam	WnerCell	Conty	Holdi
BO14_44	BO14	44	Pacca	1	Mosque	Religious Area	basir mohammad jame mosq	basir mohamr		1970	
BC31_4	BC31	4	Pacca	1	TEMPLE	Religious Area	SRE SRE BOKKHO KALI MANDI			1935	
BO25_25	BO25	25	Pacca	2	Mosque	Religious Area	North Ghatcheck Shahi Jame I			1994	
BK29_2	BK29	2	Semi Pacca	1	temple	Religious Area	jogonando mondir			1995	
BR15_8	BR15	8	Pacca	2	Mosque	Religious Area	Dullober Bari Jame Mosque			2000	
BP27_95	BP27	95	Pacca	1	Temple	Religious Area	Maitra Mandir	Dharmasen Ba	01815697679	2013	
BC29_4	BC29	4	Pacca	1	Mosque	Religious Area	FOKANIA MASJID	HAFIZ MAWLA	01819624739	1971	
BC29_6	BC29	6	Pacca	1	ORPHANAGE	Religious Area	FOKANIA	SHAHDAT HOS	01819624739	1971	
BG31_31	BG31	31	Semi Pacca	1	temple	Religious Area	thakur ghor	shomoronjon s			
BR17_15	BR17	15	Pacca	1	Mosque	Religious Area	Mohammadia Jame Mosque			1993	
BA28_16	BA28	16	Pacca	1	Mosque	Religious Area	MOGHOL HAT JAME MOSQUE	MOGHOL BARI		2014	
BK29_14	BK29	14	Pacca	1	Mosque	Religious Area	ali ha mosque			2006	
BL31_51	BL31	51	Pacca	1	Mosque	Religious Area	bokhottor jame mosque			2005	
BG25_61	BG25	61	Pacca	1	Mosque	Religious Area	baitul nur jam e mosque			2006	
BL31_17	BL31	17	Pacca	1	temple	Religious Area	sarbojonin			2002	
BQ21_7	BQ21	7	Katcha	1	Mosque	Religious Area	Khaza Gariber Newaz Jame M			2013	
BD24_33	BD24	33	Pacca	1	TEMPLE	Religious Area		BIRENDRALAL	01823059336	2003	
BK31_58	BK31	58	Pacca	1	Mosque	Religious Area	FORKANUA JAME MASJID			1940	
BD38_54	BD38	54	Pacca	1	Mosque	Religious Area	south nischinta pur jame mos			1970	
BQ11_43	BQ11	43	Semi Pacca	1	MAZAR	Religious Area	HAZRAT ASHRAF UDDIN SHAH	HAZRAT ASHR/		2002	
BP26_61	BP26	61	Katcha	1	MAZAR	Religious Area	SAT ANI JA MAZAR	MURADNAGAF	01868578896	1990	
BQ11_1	BQ11	1	Pacca	1	Mosque	Religious Area	ROSAIPARA JAME MOSJID	AHMED HOSAI		1970	
BN27_66	BN27	66	Semi Pacca	1	mazar	Religious Area	hazrat mustain musa oir auliv				

# GIS Features Processing

Ishwarganj, Shibpur and Raipura Upazila





# Attribute Data Entry

Ishwarganj, Shibpur and Raipura Upazila

Data Entry of Features from Log Book



# Attribute Linking to Physical Features

## Ishwarganj, Shibpur and Raipura Upazila

Physical\_Features\_Survey\_Sheets\_A3\_1818 - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:10,000

Editor

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Convert Features to Graphics...

Convert Symbolology to Representation...

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Relate...

Remove Relationship

Join data to this layer or standalone table based on common attribute, spatial location or existing relationship.

Join Data

Join lets you append additional data to this layer's attribute table so you can, for example, symbolize the layer's features using this data.

What do you want to join to this layer?

Join attributes from a table

1. Choose the field in this layer that the join will be based on:

Struc\_ID

2. Choose the table to join to this layer, or load the table from disk:

Main

☒ Show the attribute tables of layers in this list

Table

GridID	Shape	Str_ID	Struc_ID	Str_Type	Storied	Str_Use1t	Str_Use2t	Struc_Name	Owner_Name	Cons_Year
B027	Polygon	18	B027_18	Katcha	1	Shop	Commercial	Roujer Hat	Shibi Decorator	2008
B027	Polygon	19	B027_19	Katcha	1	Residential	Residential	<Null>	Golam Faruk	2010
B027	Polygon	20	B027_20	Pacca	2	Thana Mosque	Religious Area	<Null>	<Null>	2012
B027	Polygon	21	B027_21	Pacca	1	Market	Commercial	Moshjid Market Rangunia	Moshjid Market	2010
B027	Polygon	22	B027_22	Pacca	2	Shop	Commercial	Rina Medico	<Null>	2011
B027	Polygon	23	B027_23	Pacca	3	Community Centre	Community Facilities	Talukdar Community Centre	<Null>	2009
B027	Polygon	24	B027_24	Pacca	3	Shop	Commercial	Talukdar Market	Talukdar	2010
B027	Polygon	25	B027_25	Pacca	1	Shop	Commercial	Syed Traders	Nuri Talukdar	2011
B027	Polygon	26	B027_26	Katcha	1	Shop	Commercial	<Null>	Abdul Awal	2010
B027	Polygon	27	B027_27	Katcha	1	Residential	Residential	<Null>	Abdul Awal	2010
B027	Polygon	28	B027_28	Pacca	1	Shop	Commercial	Gumei Market	Abdul Nur Mla	2010
B027	Polygon	29	B027_29	Pacca	2	PSA, Residential	Residential	<Null>	Abul Kashem	2012
B027	Polygon	30	B027_30	Semi Pacca	1	Residential	Residential	<Null>	Jamal	2012
B027	Polygon	31	B027_31	Pacca	2	Shop	Commercial	Oidar Poultry Feed	Md. Rafiqul	2009
B027	Polygon	32	B027_32	Pacca	2	Residential	Residential	<Null>	Monir Usman, Yusuf Hajj	2007

resulting table. All fields being joined.

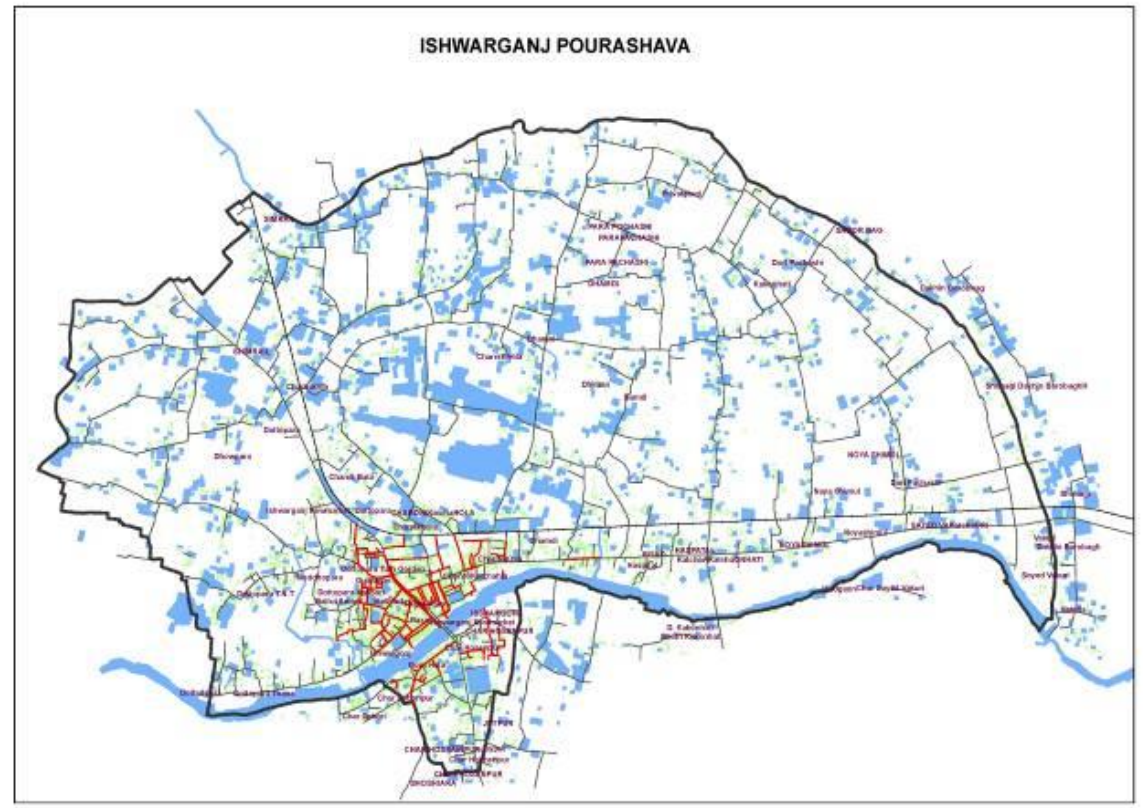
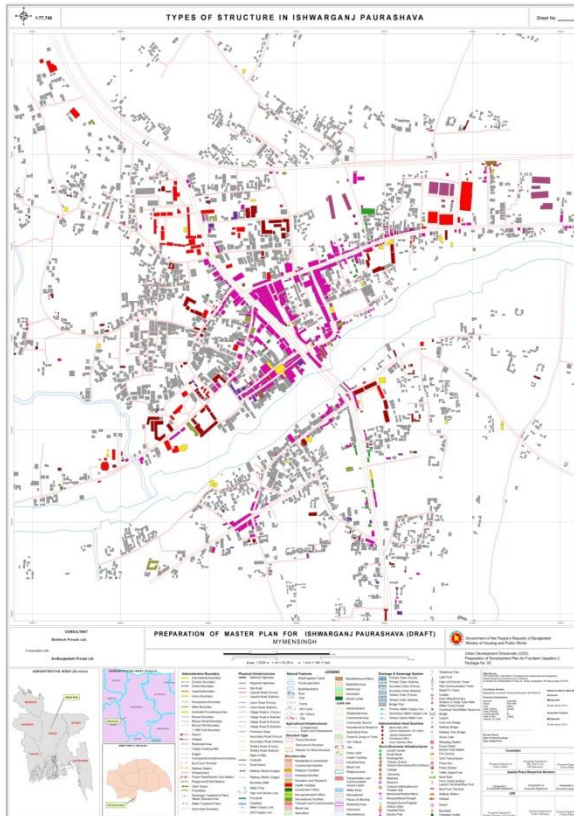
Match in the join target table.

Validate Join

Cancel

# Digital Mapping (Feature Compilation)

## Ishwarganj Paurashava



**PHYSICAL FEATURE MAP OF RAIPURA UPAZILA (Draft)**

Sheet No. B04.01

**CONCLUSION**  
 Detailed Physical Map of Raipura Upazila has been prepared at a scale of 1:1950. The map shows the geographical layout of Raipura Upazila, including its boundaries, major roads, rivers, and various physical features. The map is color-coded to represent different types of features: green for agricultural land, brown for built-up areas, blue for water bodies, and yellow for bare land. The map is divided into sections by a grid system. The title 'PHYSICAL FEATURE MAP OF RAIPURA UPAZILA (Draft)' is at the top. The scale is 1:1950. The map is labeled 'RAIPURA' in the center. The map is surrounded by a border with a scale bar and a north arrow.

**PREPARATION OF MASTER PLAN FOR RAIPURA UPAZILA**  
 Narshingdi, Dhaka Division.

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

Urban Development Directorate (UDD)  
 Preparation of Master Plan for Urban Upazila (MPPU)  
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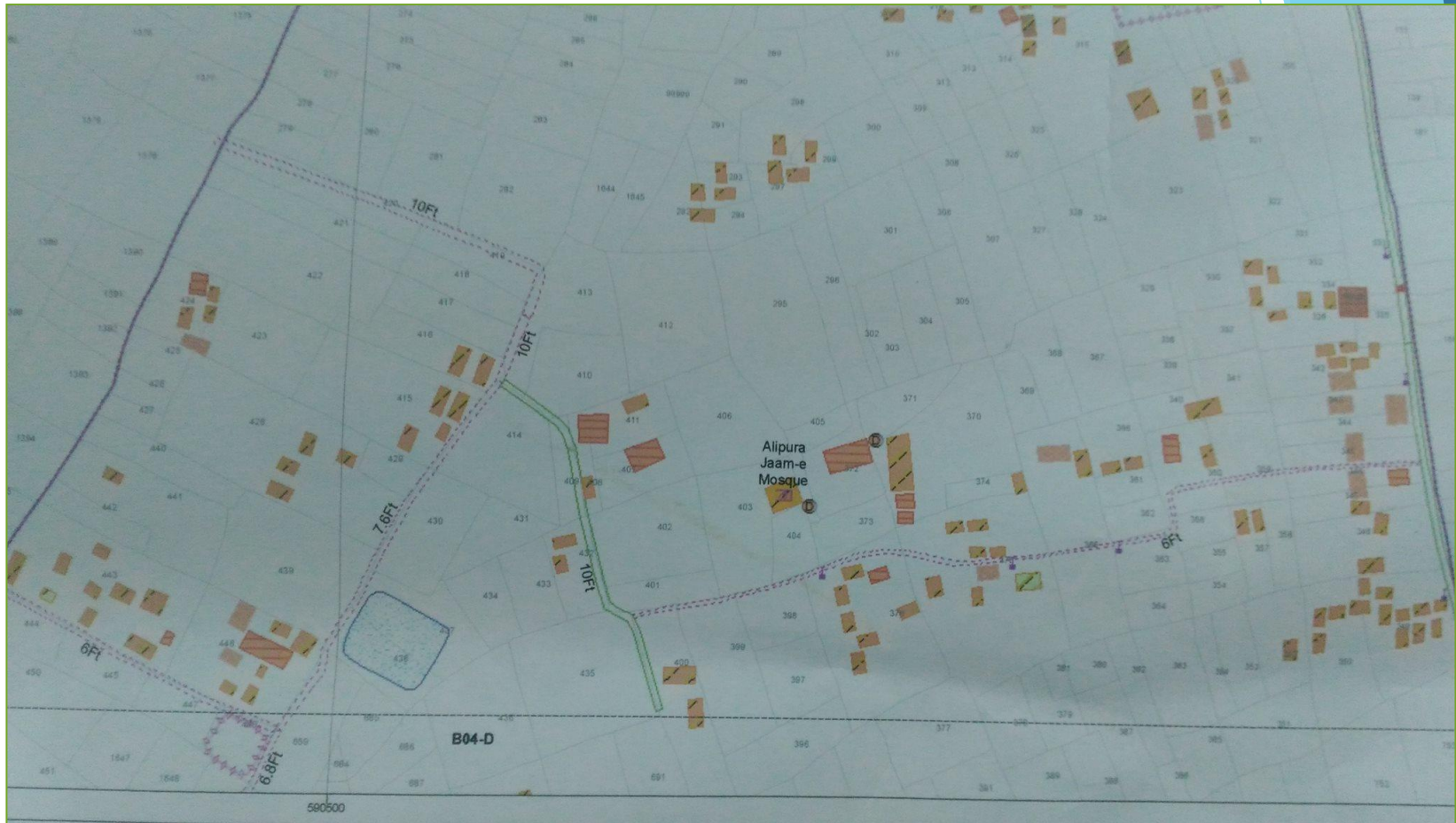
**ADMINISTRATIVE INDEX (Contd.)**

Sl. No.	Area	Area (sq. km)	Population (2008)	Population Density (per sq. km)
1	Barisal	1.2	12,000	10,000
2	Bogra	1.5	15,000	10,000
3	Brahmanbaria	1.8	18,000	10,000
4	Comilla	2.0	20,000	10,000
5	Cox's Bazar	2.2	22,000	10,000
6	Dhaka	2.5	25,000	10,000
7	Feni	2.8	28,000	10,000
8	Gazipur	3.0	30,000	10,000
9	Joypurhat	3.2	32,000	10,000
10	Kishoreganj	3.5	35,000	10,000
11	Moulvibazar	3.8	38,000	10,000
12	Narail	4.0	40,000	10,000
13	Narsingdi	4.2	42,000	10,000
14	Rajshahi	4.5	45,000	10,000
15	Rangpur	4.8	48,000	10,000
16	Saidpur	5.0	50,000	10,000
17	Tangail	5.2	52,000	10,000
18	Tongi	5.5	55,000	10,000
19	Tripura	5.8	58,000	10,000
20	Uttaranchal	6.0	60,000	10,000



# Digital Mapping (Feature Compilation)

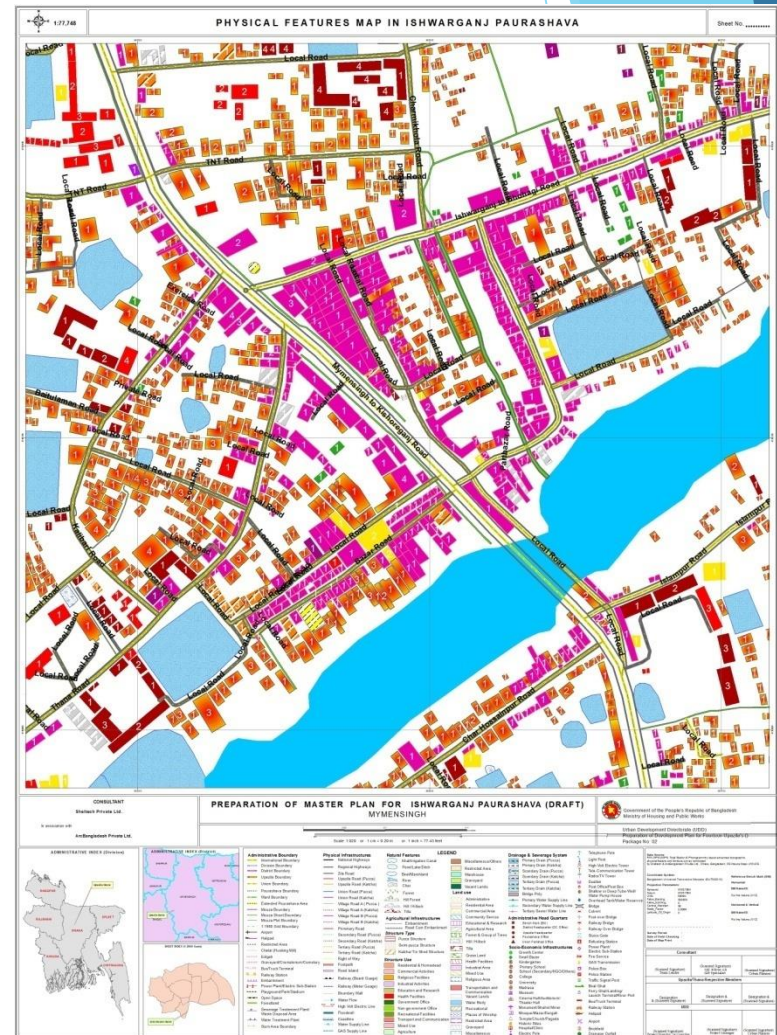
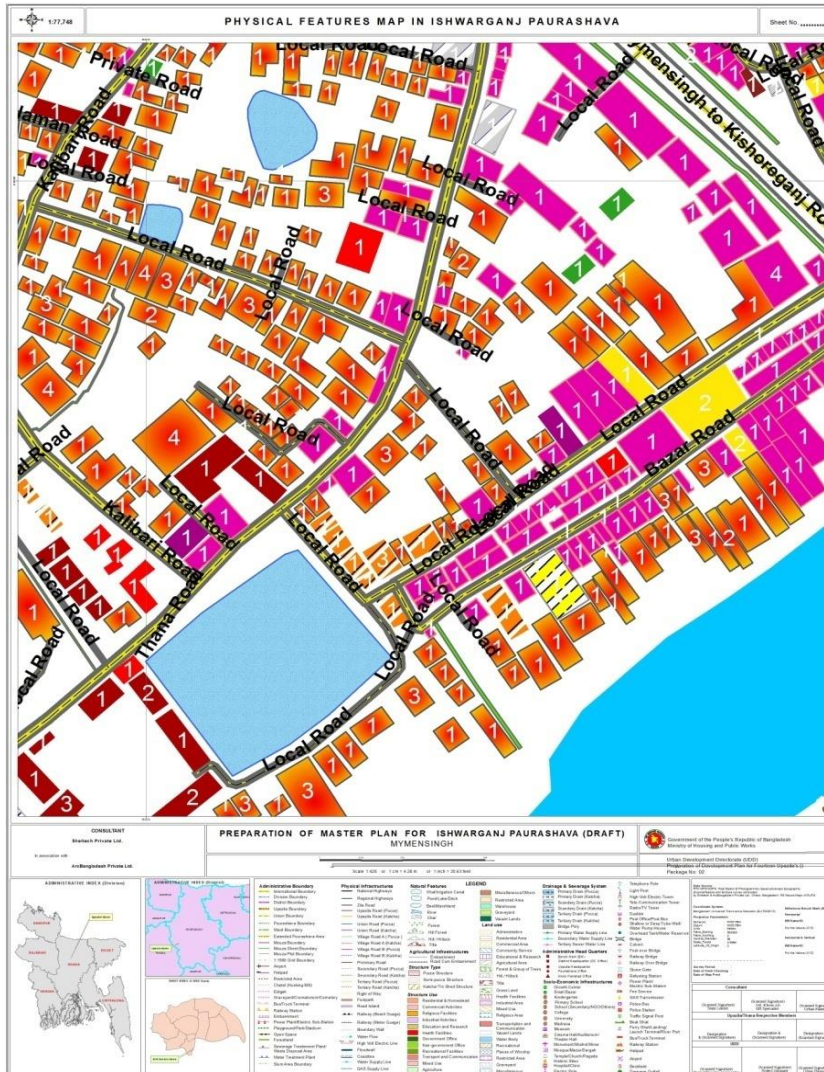
## Shibpur Upazila (Part)





# Landuse Map Generation

## Ishwarganj, Shibpur and Raipura Upazila



# Landuse Statistics

## Ishwarganj Paurashava

Sl	Land Use	Area(Acre)
1	Administrative	6.238
2	Agricultural Land	1653.687
3	Commercial Activities	11.572
4	Drain	2.069
5	Education and Research	4.051
6	Fellow Land	1.837
7	Garden	382.526
8	Graveyard	3.193
9	Health Facilities	0.51
10	Industrial Activities	1.036
11	Miscellaneous	0.129
12	Mixed Use	0.681
13	Non-government	0.772
14	Open Space	486.224
15	Recreational Facilities	0.111
16	Religious Facilities	2.457
17	Residential & Homestead	93.434
18	Transport and Communication Network	62.939
19	Water bodies	426.132
Total Paurashava Area (In Acre)		3139.598



# Others Physical Survey (Road Inventory)y

Ishwarganj, Shibpur and Raipura Upazila



# Thank You!

