



Statistical Plan Book of Ramu Upazila

PREPARATION OF DEVELOPMENT PLAN FOR FOURTEEN UPAZILAS

Urban Development Directorate (UDD)

82, Segunbagicha, Dhaka-1000

Website: www.udd.gov.bd

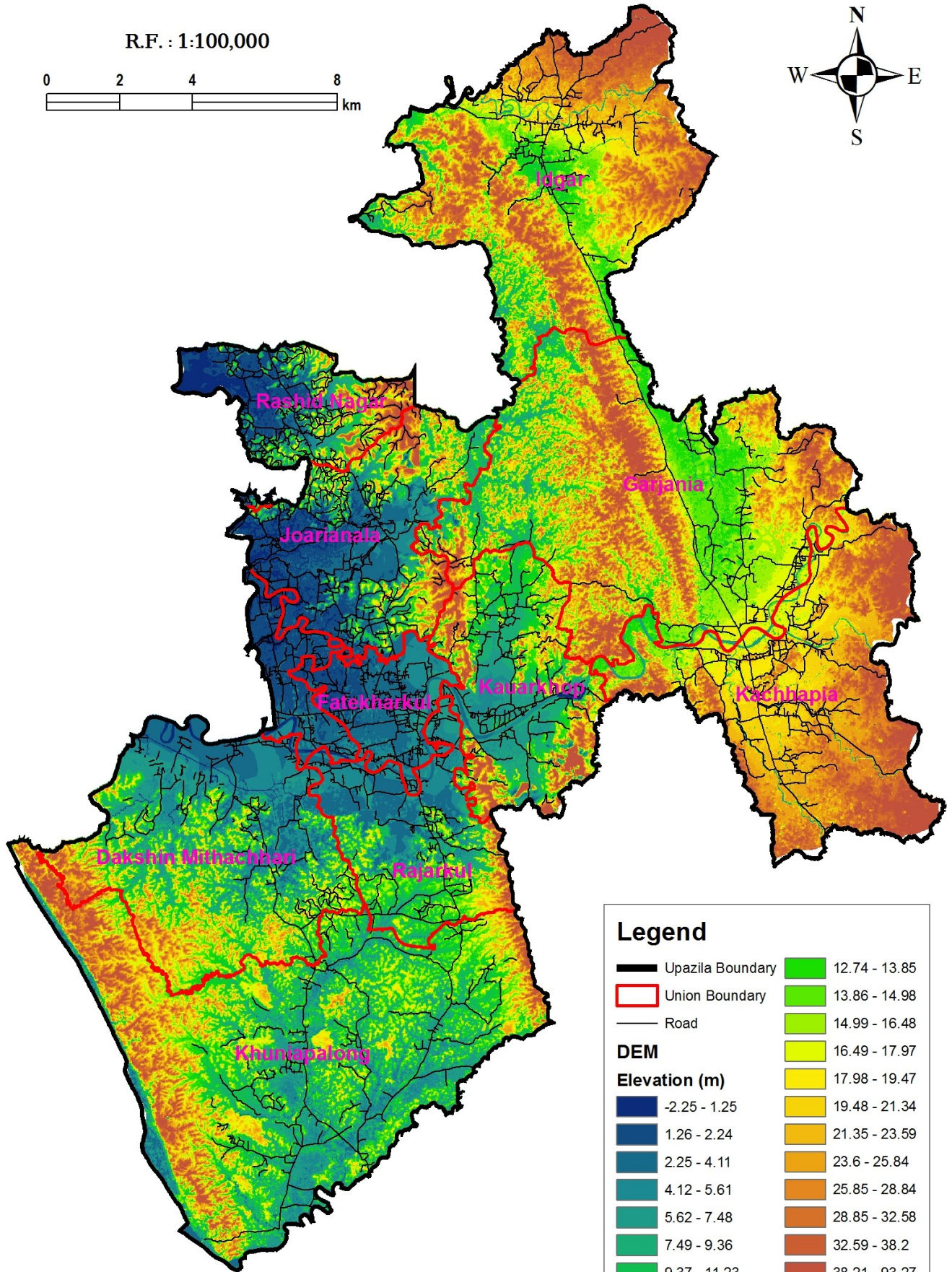
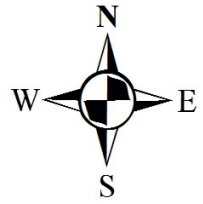
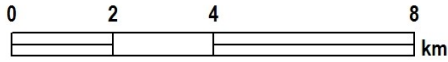
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Dem Map of Ramu Upazila

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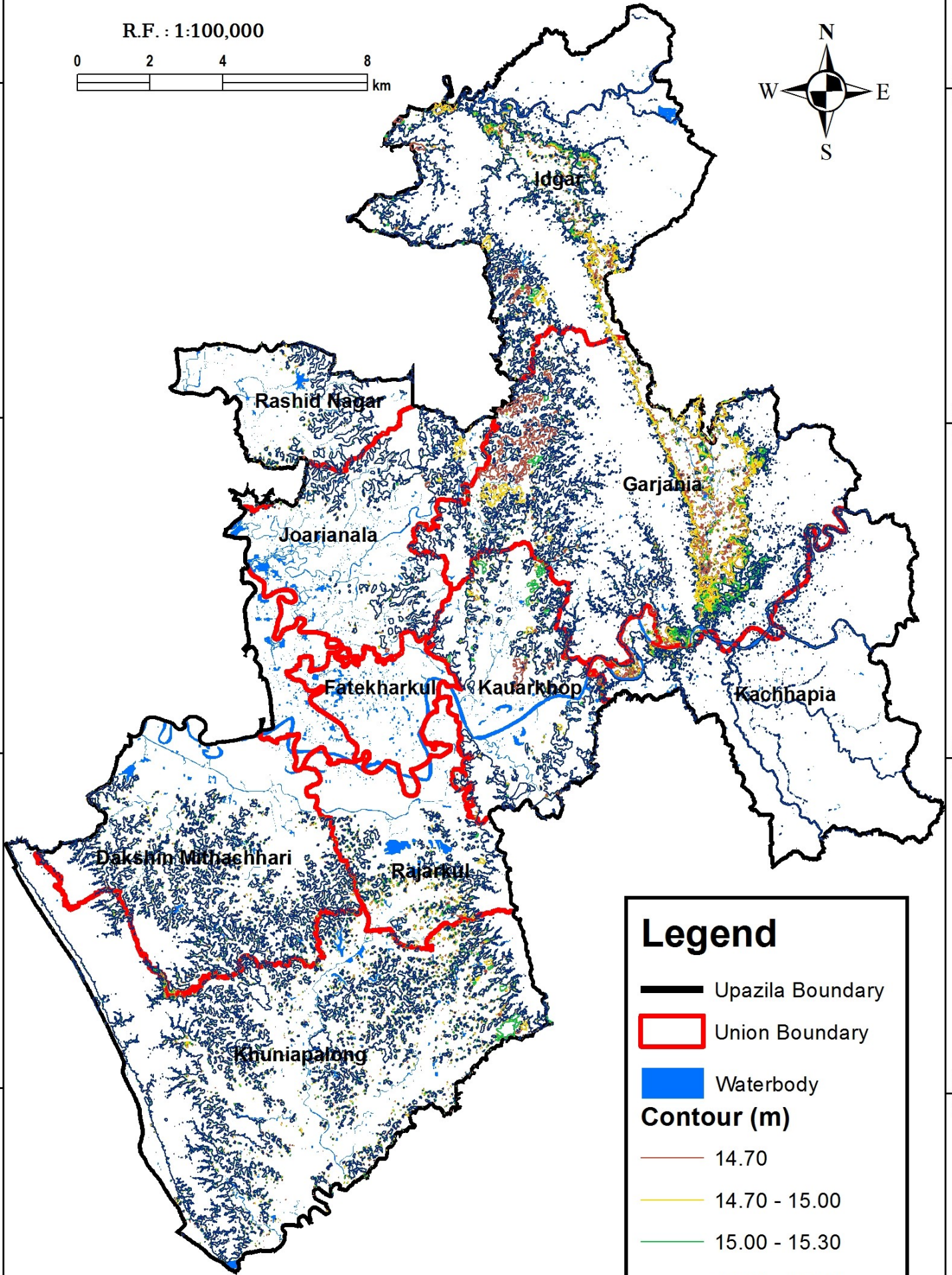
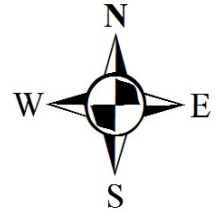
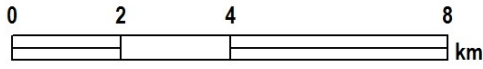


Legend

Upazila Boundary	12.74 - 13.85
Union Boundary	13.86 - 14.98
Road	14.99 - 16.48
DEM	16.49 - 17.97
Elevation (m)	17.98 - 19.47
-2.25 - 1.25	19.48 - 21.34
1.26 - 2.24	21.35 - 23.59
2.25 - 4.11	23.6 - 25.84
4.12 - 5.61	25.85 - 28.84
5.62 - 7.48	28.85 - 32.58
7.49 - 9.36	32.59 - 38.2
9.37 - 11.23	38.21 - 93.27
11.24 - 12.73	

Contour Map of Ramu Upazila

R.F. : 1:100,000



Legend

- Upazila Boundary
- Union Boundary
- Waterbody
- Contour (m)**
- 14.70
- 14.70 - 15.00
- 15.00 - 15.30
- 15.30 - 15.60

21°35'N
21°30'N
21°25'N
21°20'N

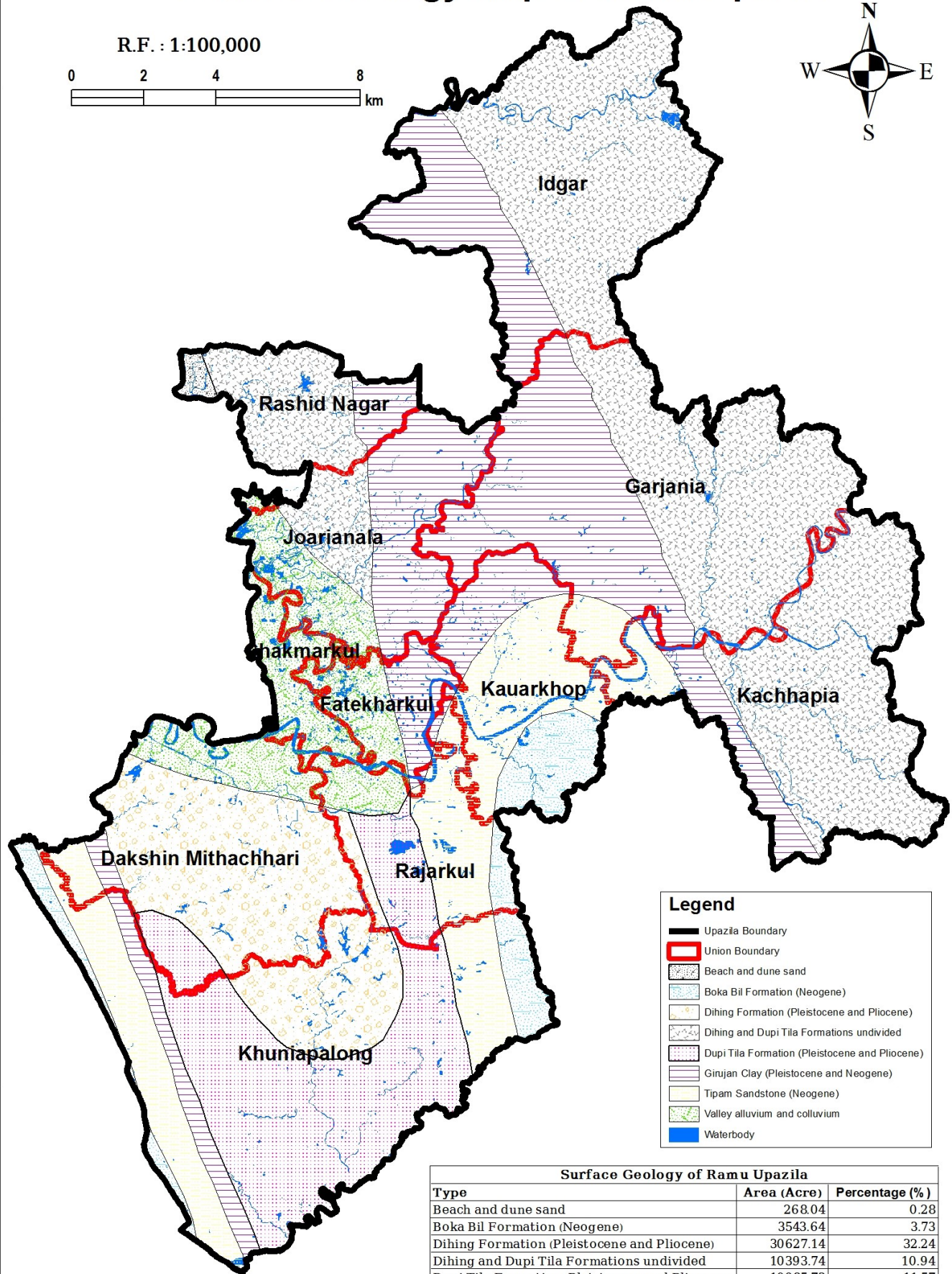
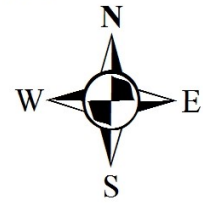
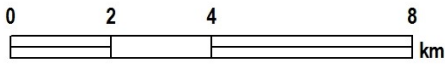
21°35'N
21°30'N
21°25'N
21°20'N

92°E 92°5'E 92°10'E

92°E 92°5'E 92°10'E

Surface Geology Map of Ramu Upazila

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Legend

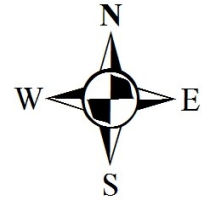
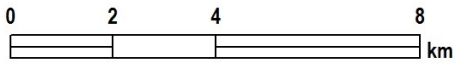
- Upazila Boundary
- Union Boundary
- Beach and dune sand
- Boka Bil Formation (Neogene)
- Dihing Formation (Pleistocene and Pliocene)
- Dihing and Dupi Tila Formations undivided
- Dupi Tila Formation (Pleistocene and Pliocene)
- Girujan Clay (Pleistocene and Neogene)
- Tipam Sandstone (Neogene)
- Valley alluvium and colluvium
- Waterbody

Surface Geology of Ramu Upazila

Type	Area (Acre)	Percentage (%)
Beach and dune sand	268.04	0.28
Boka Bil Formation (Neogene)	3543.64	3.73
Dihing Formation (Pleistocene and Pliocene)	30627.14	32.24
Dihing and Dupi Tila Formations undivided	10393.74	10.94
Dupi Tila Formation (Pleistocene and Pliocene)	10985.73	11.57
Girujan Clay (Pleistocene and Neogene)	20318.39	21.39
Tipam Sandstone (Neogene)	11241.70	11.83
Valley alluvium and colluvium	7611.17	8.01
Total	94989.54	100.00

Foundation Depth Map of Ramu Upazila

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21°35'N

21°35'N

21°30'N

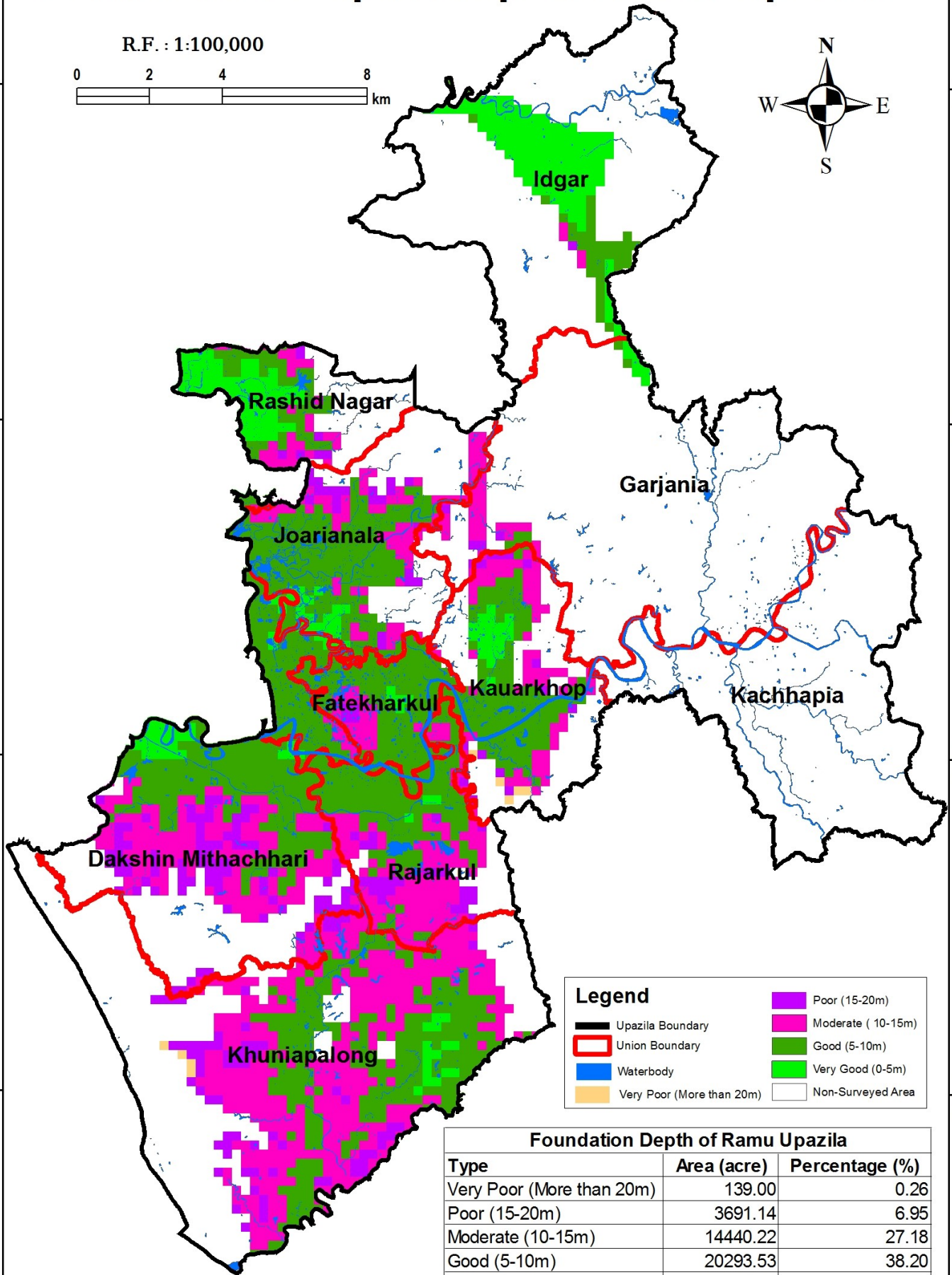
21°30'N

21°25'N

21°25'N

21°20'N

21°20'N



Legend	
Upazila Boundary	Poor (15-20m)
Union Boundary	Moderate (10-15m)
Waterbody	Good (5-10m)
Very Poor (More than 20m)	Very Good (0-5m)
	Non-Surveyed Area

Foundation Depth of Ramu Upazila		
Type	Area (acre)	Percentage (%)
Very Poor (More than 20m)	139.00	0.26
Poor (15-20m)	3691.14	6.95
Moderate (10-15m)	14440.22	27.18
Good (5-10m)	20293.53	38.20
Very Good (0-5m)	14563.77	27.41
Total	53127.65	100.00

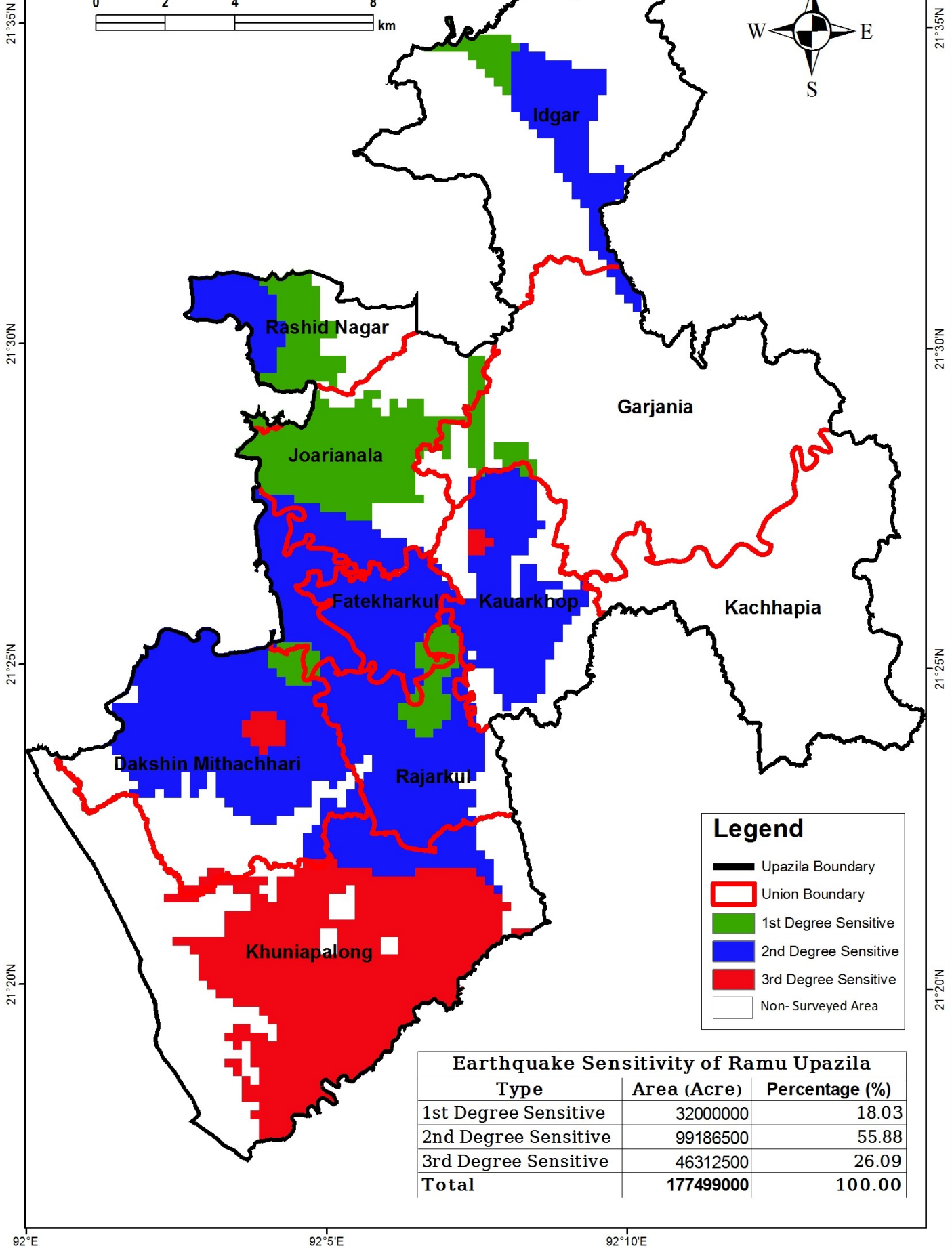
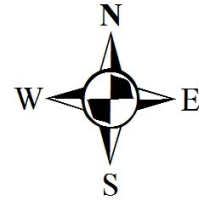
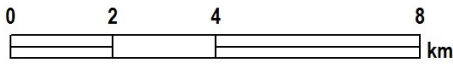
92°E

92°5'E

92°10'E

Earthquake Sensitivity Map of Ramu Upazila

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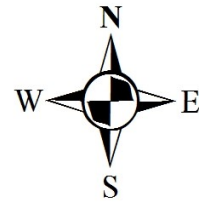
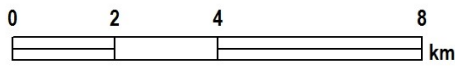
Legend

- Upazila Boundary
- Union Boundary
- 1st Degree Sensitive
- 2nd Degree Sensitive
- 3rd Degree Sensitive
- Non-Surveyed Area

Earthquake Sensitivity of Ramu Upazila		
Type	Area (Acre)	Percentage (%)
1st Degree Sensitive	3200000	18.03
2nd Degree Sensitive	9918650	55.88
3rd Degree Sensitive	4631250	26.09
Total	17749900	100.00

Infrastructure Suitability Map of Ramu Upazila

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21°35'N

21°30'N

21°25'N

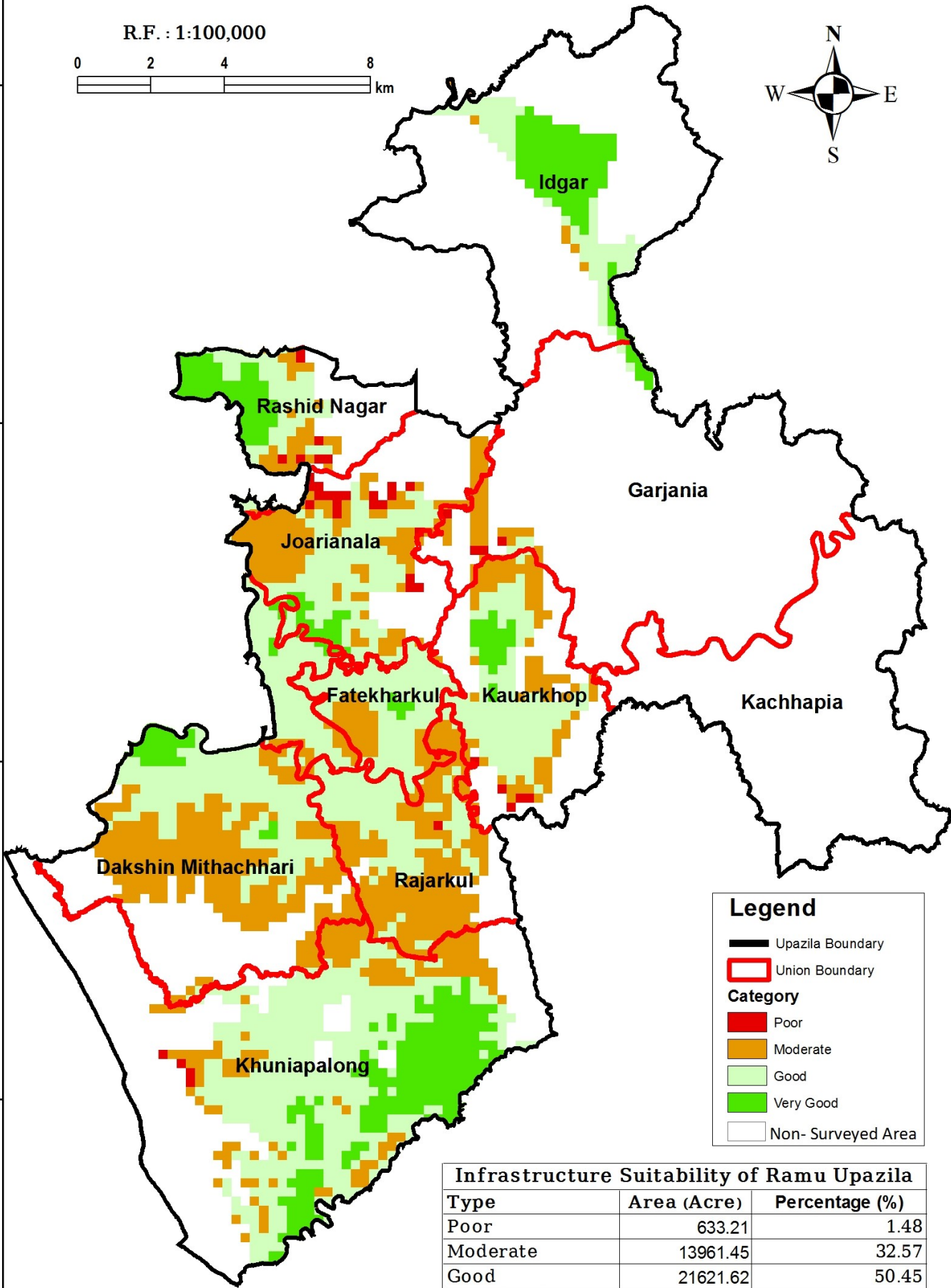
21°20'N

21°35'N

21°30'N

21°25'N

21°20'N



Legend

- Upazila Boundary
- Union Boundary

Category

- Poor
- Moderate
- Good
- Very Good
- Non- Surveyed Area

Infrastructure Suitability of Ramu Upazila		
Type	Area (Acre)	Percentage (%)
Poor	633.21	1.48
Moderate	13961.45	32.57
Good	21621.62	50.45
Very Good	6644.82	15.50
Total	42861.1	100.00

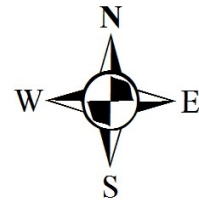
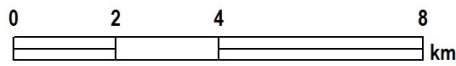
92°E

92°5'E

92°10'E

Waterbody Map of Ramu Upazila

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21°35'N

21°30'N

21°25'N

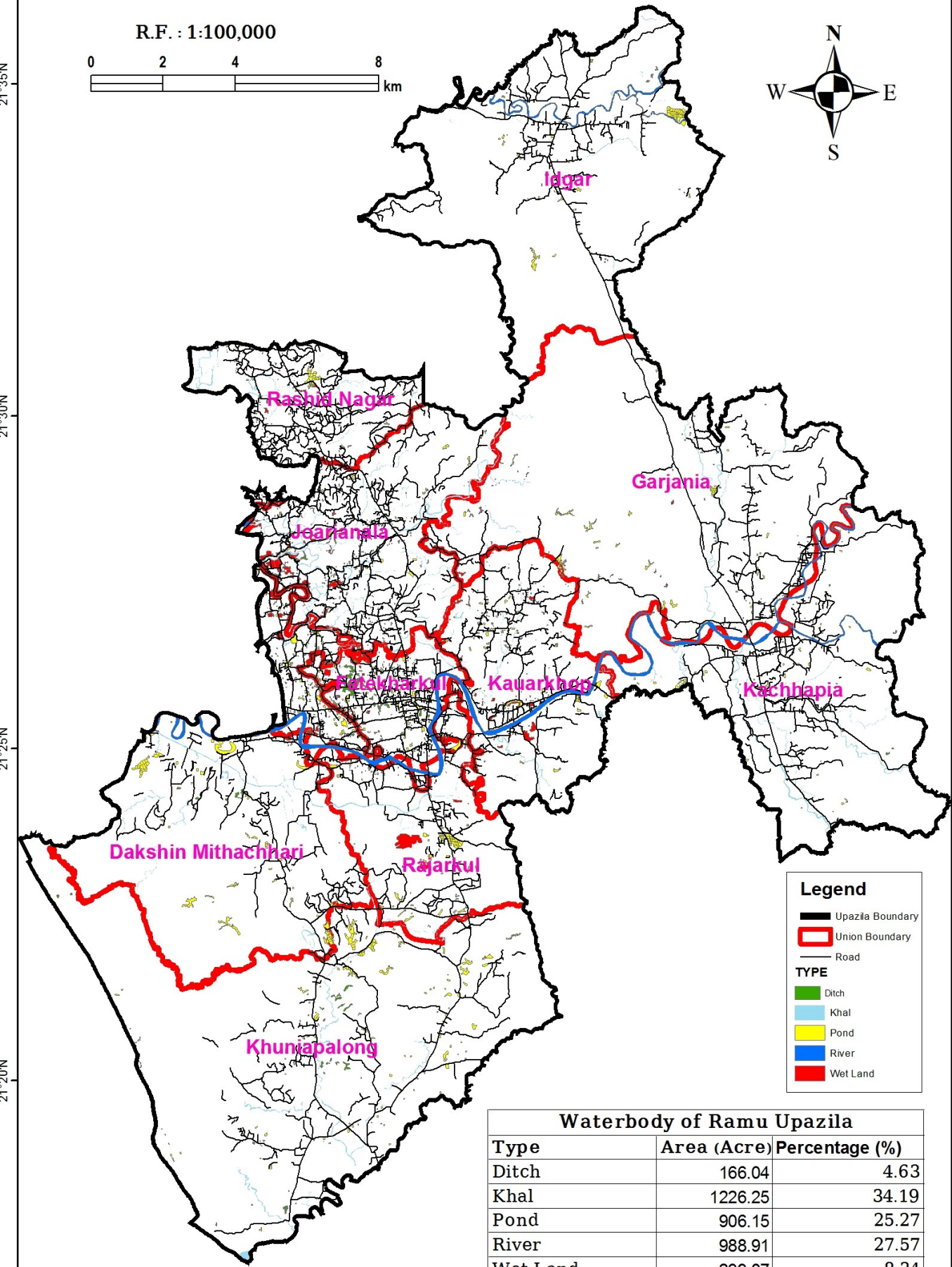
21°20'N

21°35'N

21°30'N

21°25'N

21°20'N



Legend

- Upazila Boundary
- Union Boundary
- Road

TYPE

- Ditch
- Khal
- Pond
- River
- Wet Land

Waterbody of Ramu Upazila		
Type	Area (Acre)	Percentage (%)
Ditch	166.04	4.63
Khal	1226.25	34.19
Pond	906.15	25.27
River	988.91	27.57
Wet Land	299.07	8.34
Total	3586.42	100.00

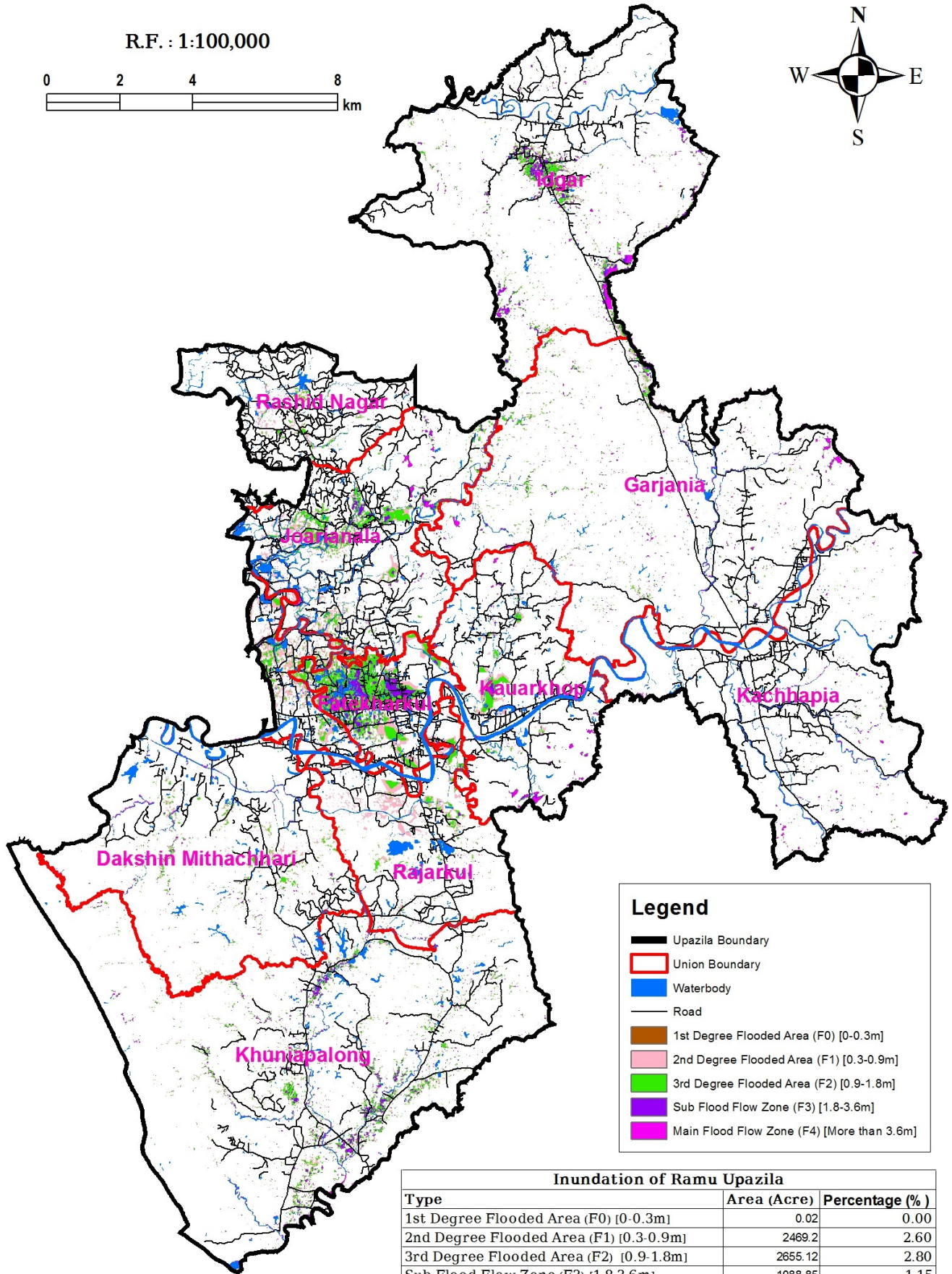
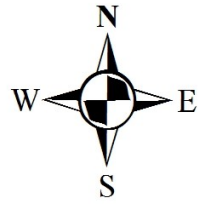
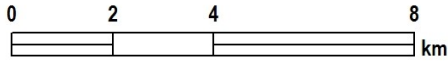
92°E

92°5'E

92°10'E

Inundation Map of Ramu Upazila

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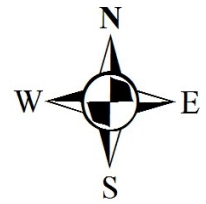
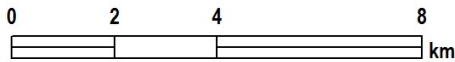
Legend

- Upazila Boundary
- Union Boundary
- Waterbody
- Road
- 1st Degree Flooded Area (F0) [0-0.3m]
- 2nd Degree Flooded Area (F1) [0.3-0.9m]
- 3rd Degree Flooded Area (F2) [0.9-1.8m]
- Sub Flood Flow Zone (F3) [1.8-3.6m]
- Main Flood Flow Zone (F4) [More than 3.6m]

Inundation of Ramu Upazila		
Type	Area (Acre)	Percentage (%)
1st Degree Flooded Area (F0) [0-0.3m]	0.02	0.00
2nd Degree Flooded Area (F1) [0.3-0.9m]	2469.2	2.60
3rd Degree Flooded Area (F2) [0.9-1.8m]	2655.12	2.80
Sub Flood Flow Zone (F3) [1.8-3.6m]	1088.85	1.15
Main Flood Flow Zone (F4) [More than 3.6m]	1466.43	1.54
Other than Inundation	87309.9	91.92
Total	94989.52	100.00

Cropping Intensity Map of Ramu Upazila

R.F. : 1:100,000



21°35'N

21°35'N

21°30'N

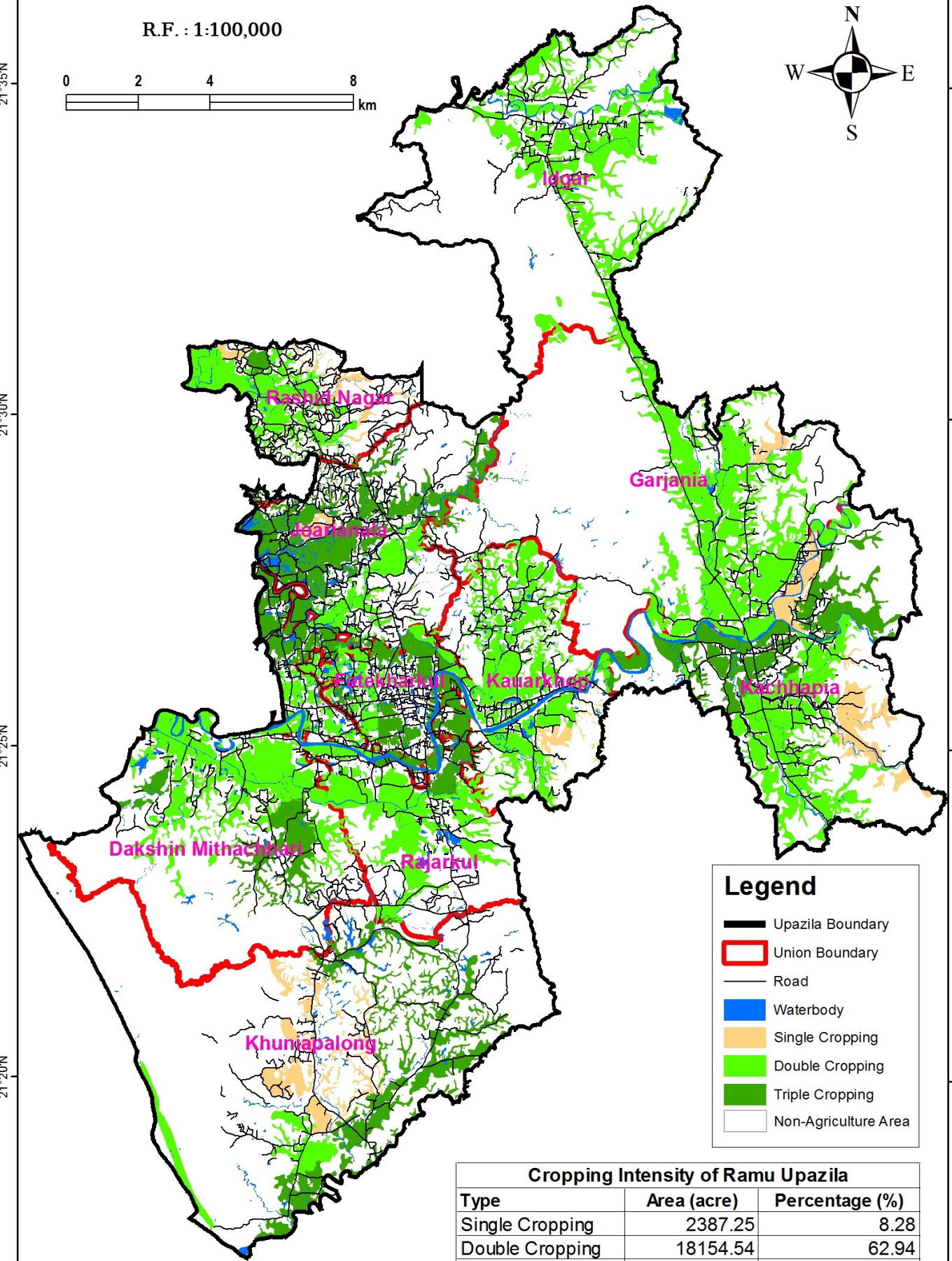
21°30'N

21°25'N

21°25'N

21°20'N

21°20'N



Legend

- Upazila Boundary
- Union Boundary
- Road
- Waterbody
- Single Cropping
- Double Cropping
- Triple Cropping
- Non-Agriculture Area

Cropping Intensity of Ramu Upazila		
Type	Area (acre)	Percentage (%)
Single Cropping	2387.25	8.28
Double Cropping	18154.54	62.94
Triple Cropping	8302.78	28.78
Total	28844.58	100.00

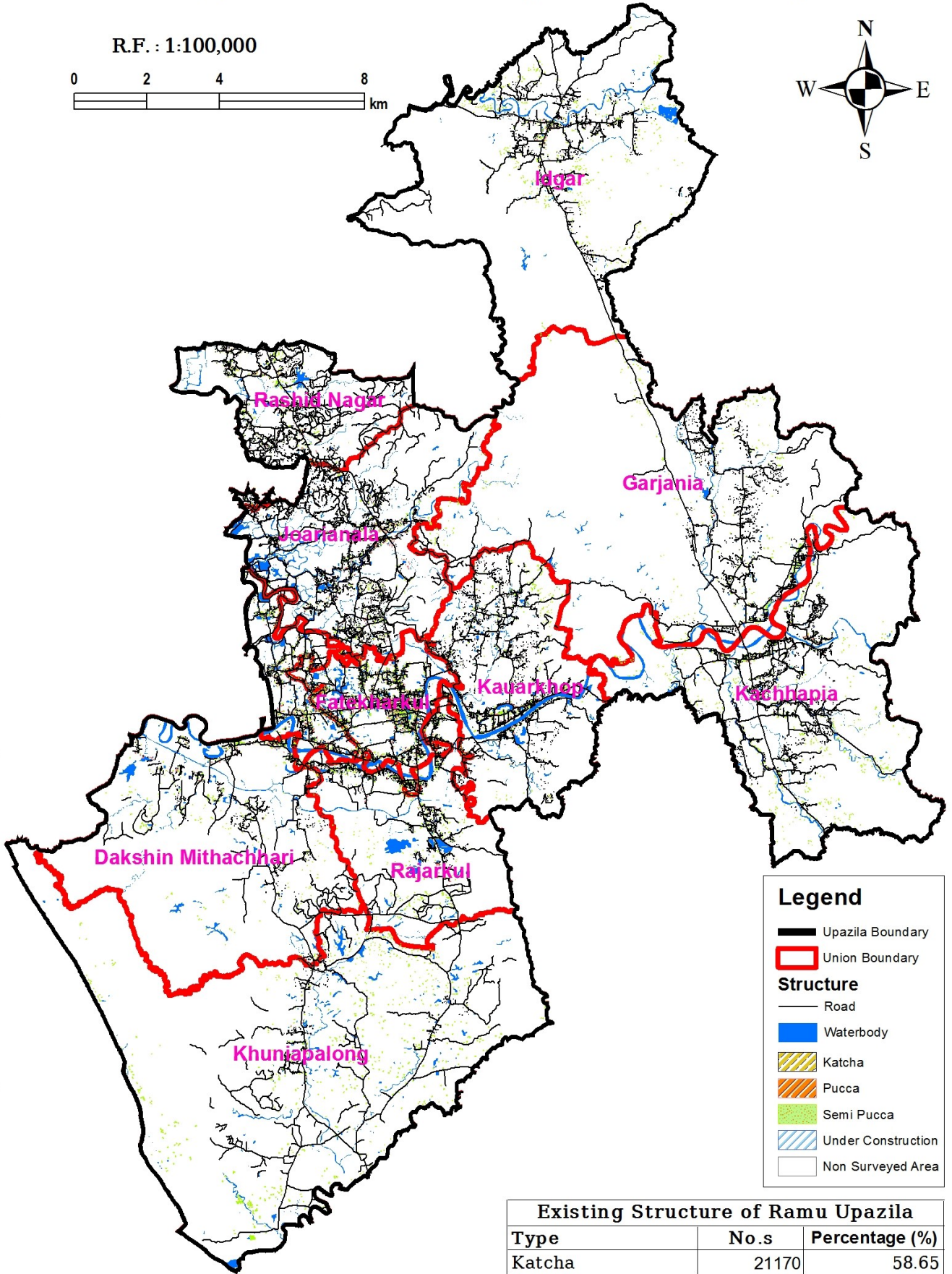
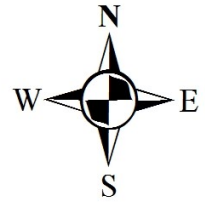
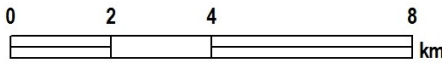
92°E

92°5'E

92°10'E

Existing Structure Map of Ramu Upazila

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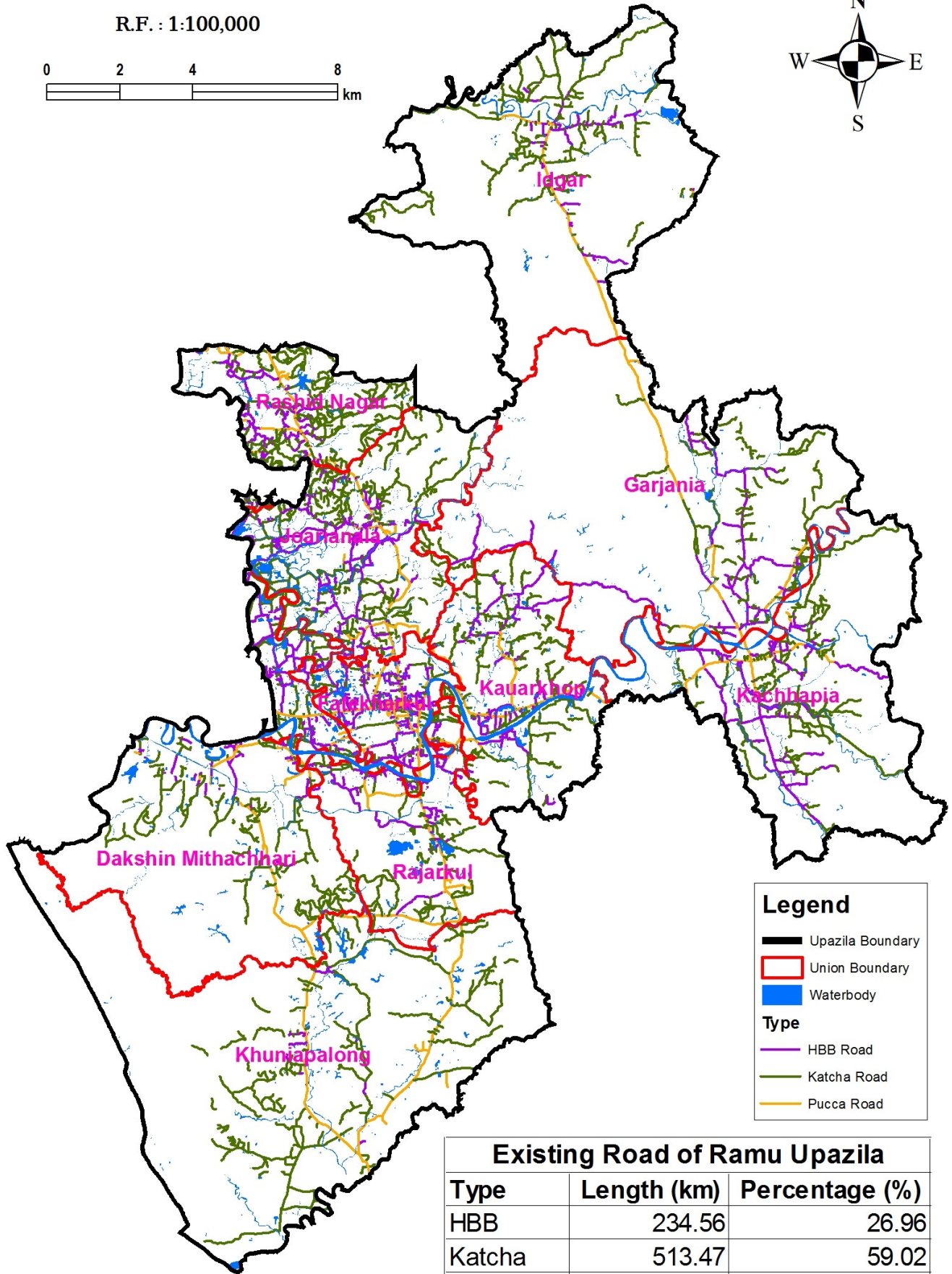
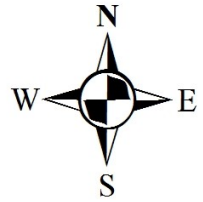
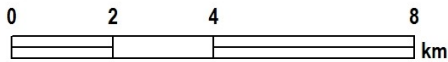
Legend

- Upazila Boundary
- Union Boundary
- Structure**
- Road
- Waterbody
- Katcha
- Pucca
- Semi Pucca
- Under Construction
- Non Surveyed Area

Existing Structure of Ramu Upazila		
Type	No.s	Percentage (%)
Katcha	21170	58.65
Pacca	2962	8.21
Semi Pucca	11833	32.78
Under Construction	133	0.37
Total	36098.00	100.00

Existing Road Map of Ramu Upazila

R.F. : 1:100,000



Legend

- Upazila Boundary
- Union Boundary
- Waterbody

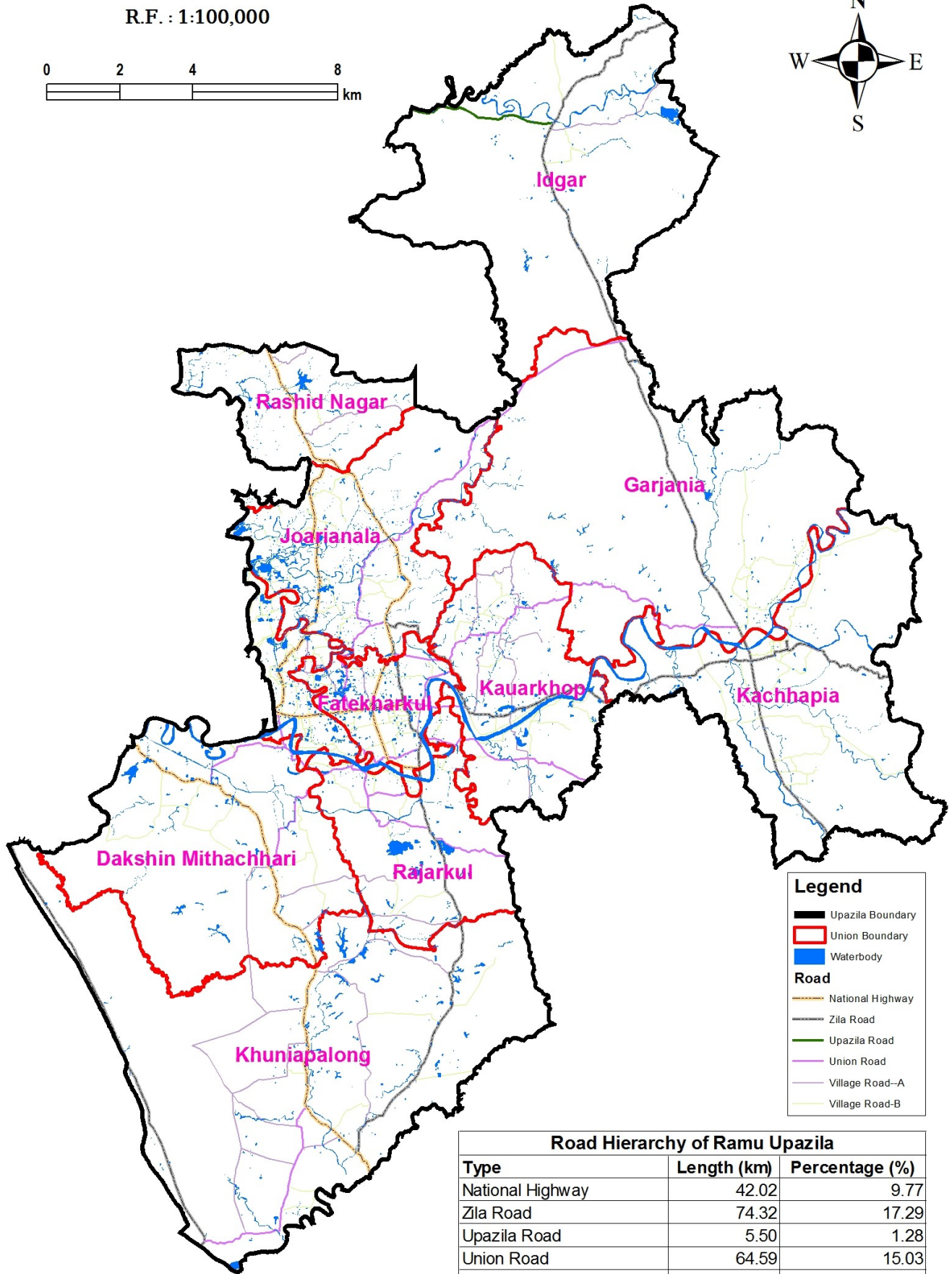
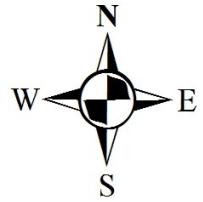
Type

- HBB Road
- Katcha Road
- Pucca Road

Existing Road of Ramu Upazila		
Type	Length (km)	Percentage (%)
HBB	234.56	26.96
Katcha	513.47	59.02
Pucca	122.03	14.03
Total	870.06	100.00

Road Hierarchy Map of Ramu Upazila

R.F. : 1:100,000



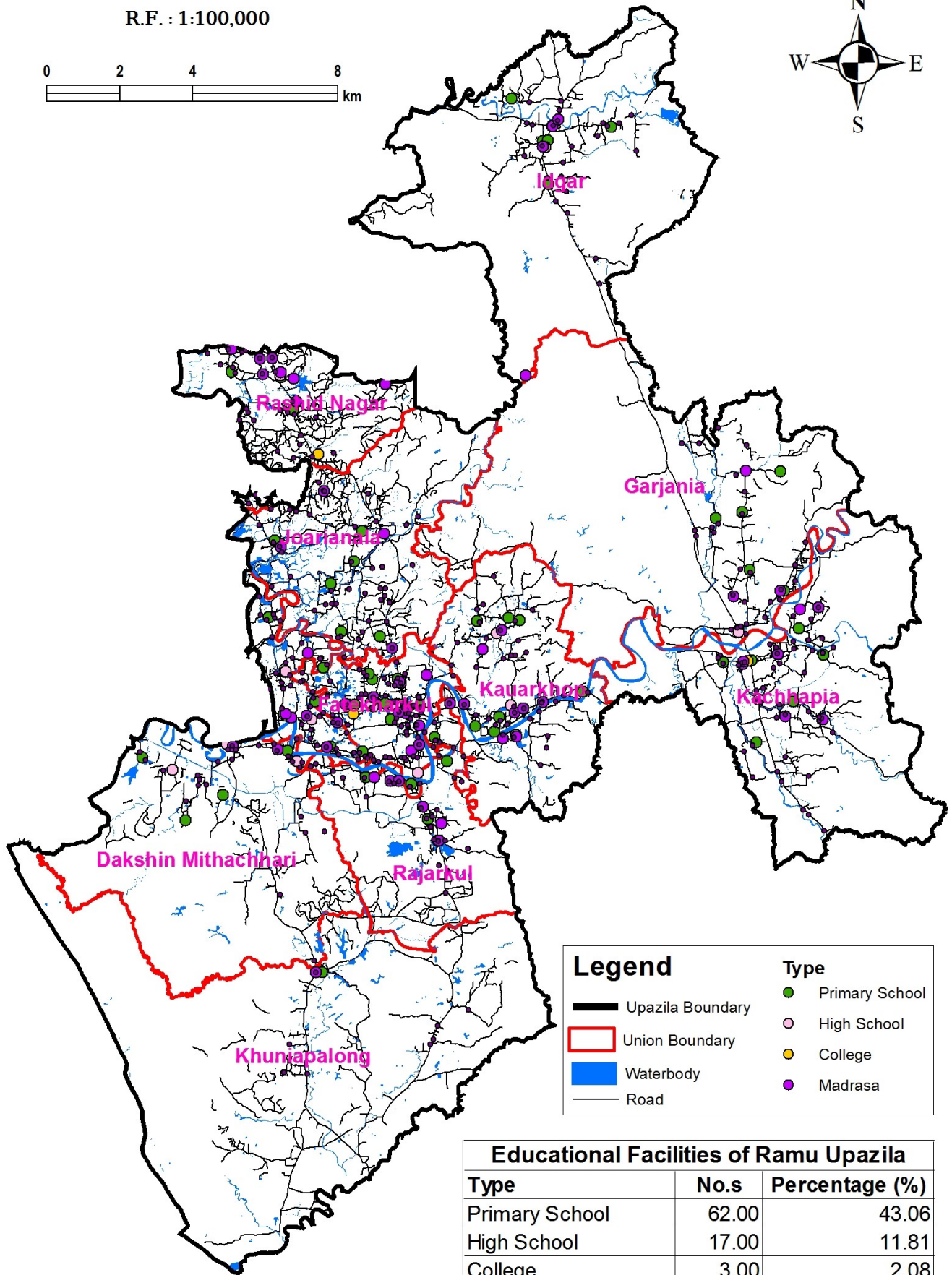
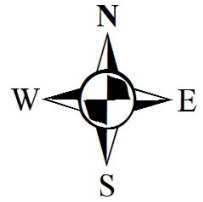
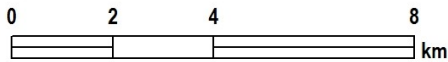
Legend

- Upazila Boundary
- Union Boundary
- Waterbody
- Road**
- National Highway
- Zila Road
- Upazila Road
- Union Road
- Village Road-A
- Village Road-B

Road Hierarchy of Ramu Upazila		
Type	Length (km)	Percentage (%)
National Highway	42.02	9.77
Zila Road	74.32	17.29
Upazila Road	5.50	1.28
Union Road	64.59	15.03
Village-A	70.33	16.36
Village-B	173.08	40.27
Total	429.84	100.00

Educational Facilities Map of Ramu Upazila

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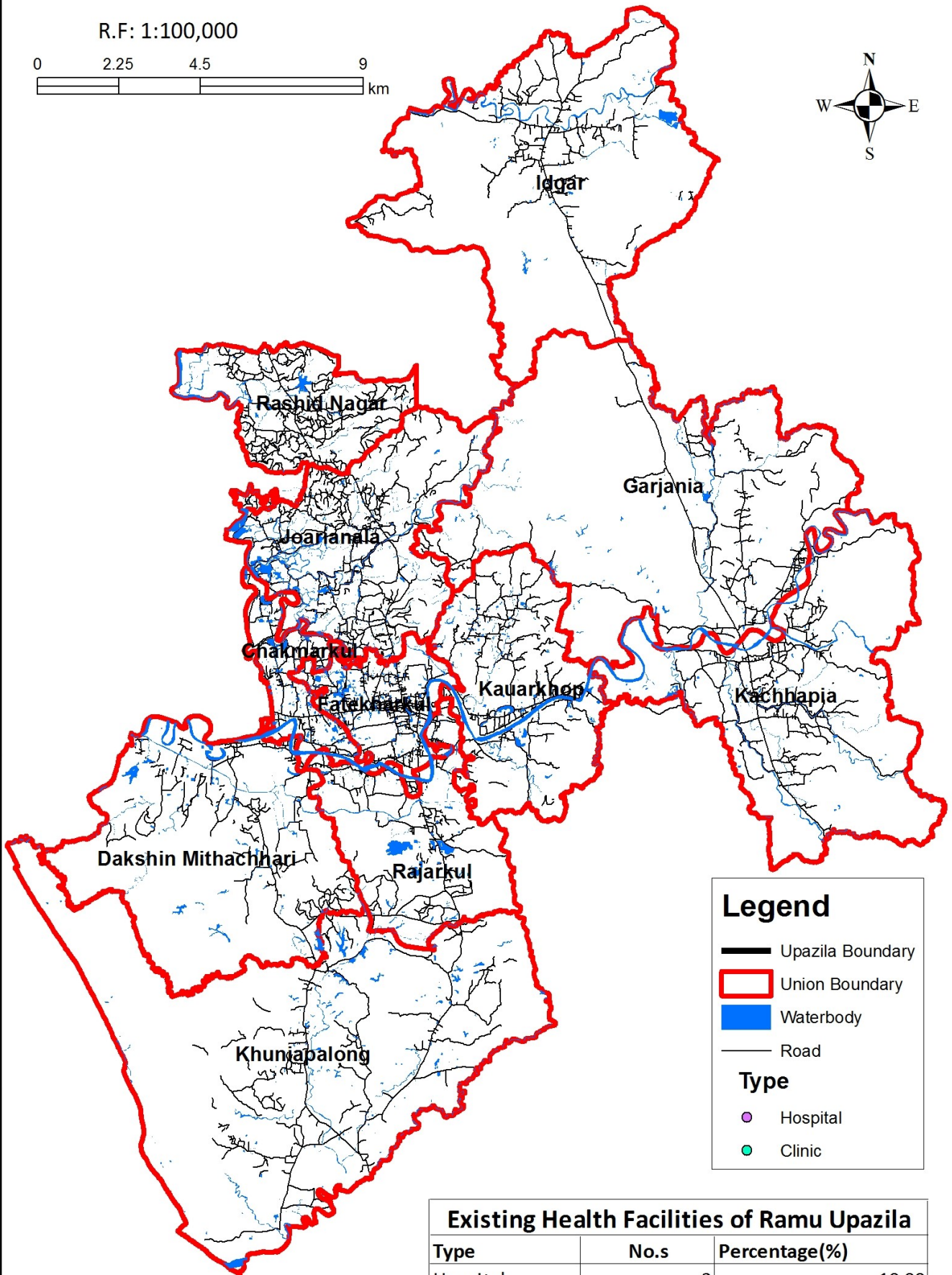
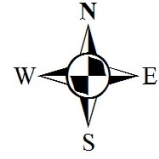
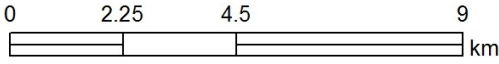


Legend		Type	
	Upazila Boundary		Primary School
	Union Boundary		High School
	Waterbody		College
	Road		Madrasa

Educational Facilities of Ramu Upazila		
Type	No.s	Percentage (%)
Primary School	62.00	43.06
High School	17.00	11.81
College	3.00	2.08
Madrasa	62.00	43.06
Total	144.00	100.00

Existing Health Facilities Map of Ramu Upazila

R.F: 1:100,000



Legend

- Upazila Boundary
- Union Boundary
- Waterbody
- Road

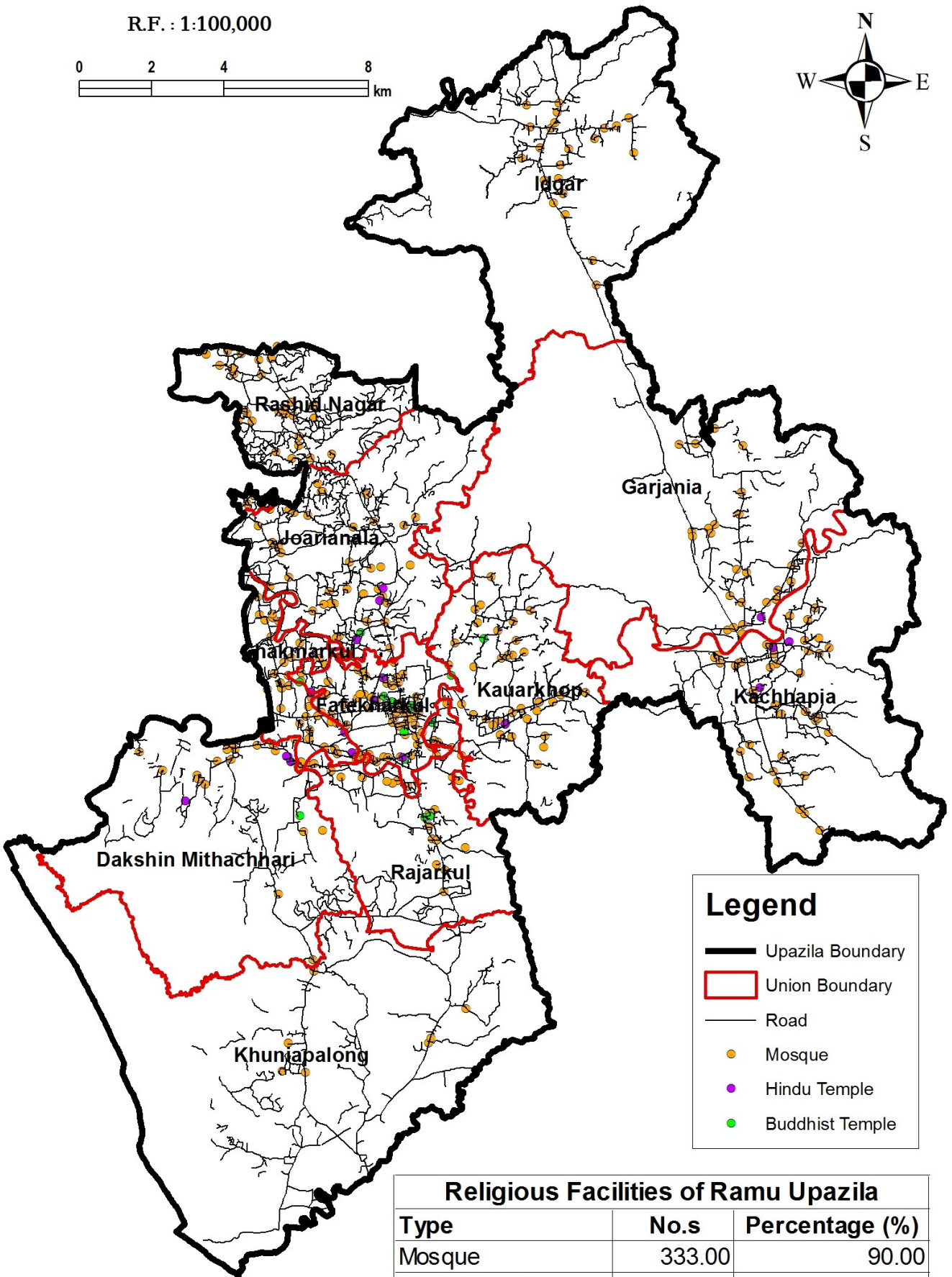
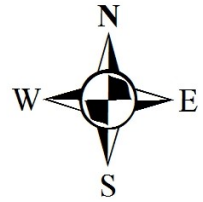
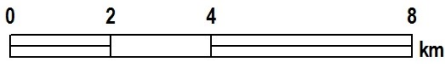
Type

- Hospital
- Clinic

Existing Health Facilities of Ramu Upazila		
Type	No.s	Percentage(%)
Hospital	2	10.00
Clinic	18	90.00
Total	20	100.00

Religious Facilities Map of Ramu Upazila

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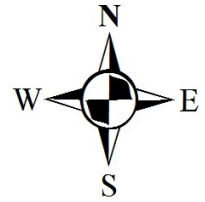
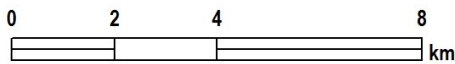
Legend

- Upazila Boundary
- Union Boundary
- Road
- Mosque
- Hindu Temple
- Buddhist Temple

Religious Facilities of Ramu Upazila		
Type	No.s	Percentage (%)
Mosque	333.00	90.00
Hindu Temple	21.00	5.68
Buddhist Temple	16.00	4.32
Total	370.00	100.00

Existing Landuse Map of Ramu Upazila

R.F. : 1:100,000



21°35'N

21°30'N

21°25'N

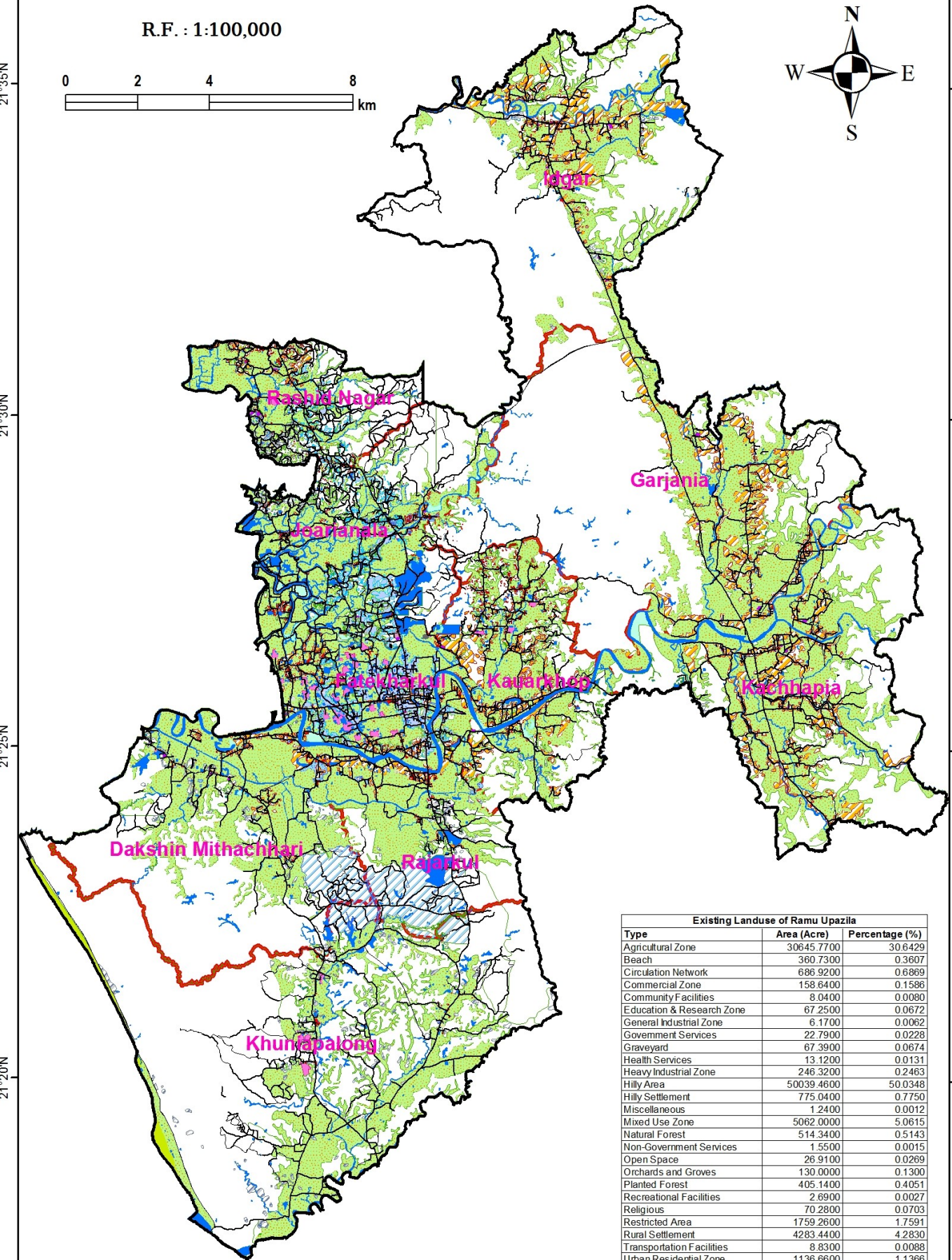
21°20'N

21°35'N

21°30'N

21°25'N

21°20'N



Legend	
Urban Boundary	Waterbody
Road	Canal
Overpass	Industrial Land
Agriculture Zone	Community Facility
Beach	Scientific Research Zone
Education/Research Zone	Government Industrial Zone
Commercial Zone	Government Services
Industrial Land	Health Services
Health Services	Heavy Industrial Zone
Heavy Industrial Zone	Hilly Area
Hilly Area	Hilly Settlement
Hilly Settlement	Miscellaneous
Miscellaneous	Mixed Use Zone
Mixed Use Zone	Natural Forest
Natural Forest	Non-Government Services
Non-Government Services	Open Space
Open Space	Orchards and Groves
Orchards and Groves	Planted Forest
Planted Forest	Recreational Facilities
Recreational Facilities	Religious
Religious	Restricted Area
Restricted Area	Rural Settlement
Rural Settlement	Transportation Facilities
Transportation Facilities	Urban Residential Zone
Urban Residential Zone	Utility Services
Utility Services	Vacant Land
Vacant Land	Waterbody
Waterbody	Non-Surveyed Area

Existing Landuse of Ramu Upazila		
Type	Area (Acre)	Percentage (%)
Agricultural Zone	30645.7700	30.6429
Beach	360.7300	0.3607
Circulation Network	686.9200	0.6869
Commercial Zone	158.6400	0.1586
Community Facilities	8.0400	0.0080
Education & Research Zone	67.2500	0.0672
General Industrial Zone	6.1700	0.0062
Government Services	22.7900	0.0228
Graveyard	67.3900	0.0674
Health Services	13.1200	0.0131
Heavy Industrial Zone	246.3200	0.2463
Hilly Area	50039.4600	50.0348
Hilly Settlement	775.0400	0.7750
Miscellaneous	1.2400	0.0012
Mixed Use Zone	5062.0000	5.0615
Natural Forest	514.3400	0.5143
Non-Government Services	1.5500	0.0015
Open Space	26.9100	0.0269
Orchards and Groves	130.0000	0.1300
Planted Forest	405.1400	0.4051
Recreational Facilities	2.6900	0.0027
Religious	70.2800	0.0703
Restricted Area	1759.2600	1.7591
Rural Settlement	4283.4400	4.2830
Transportation Facilities	8.8300	0.0088
Urban Residential Zone	1136.6600	1.1366
Utility Services	2.0800	0.0021
Vacant Land	326.2500	0.3262
Waterbody	3180.9900	3.1807
Total	100009.30	100.00

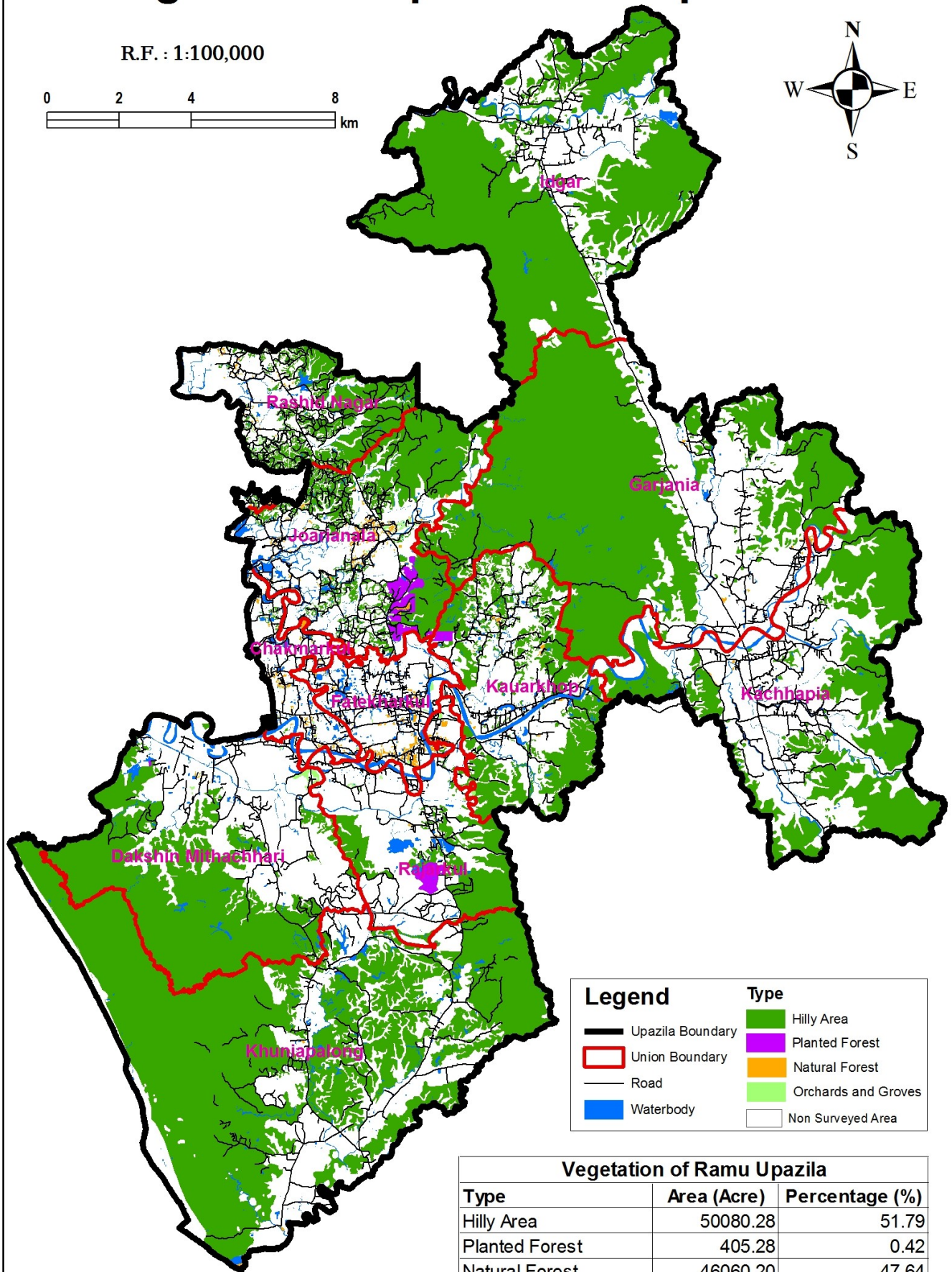
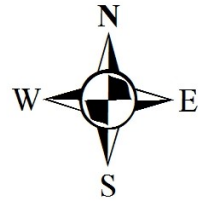
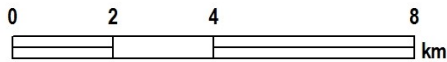
92°E

92°5'E

92°10'E

Vegetation Map of Ramu Upazila

R.F. : 1:100,000

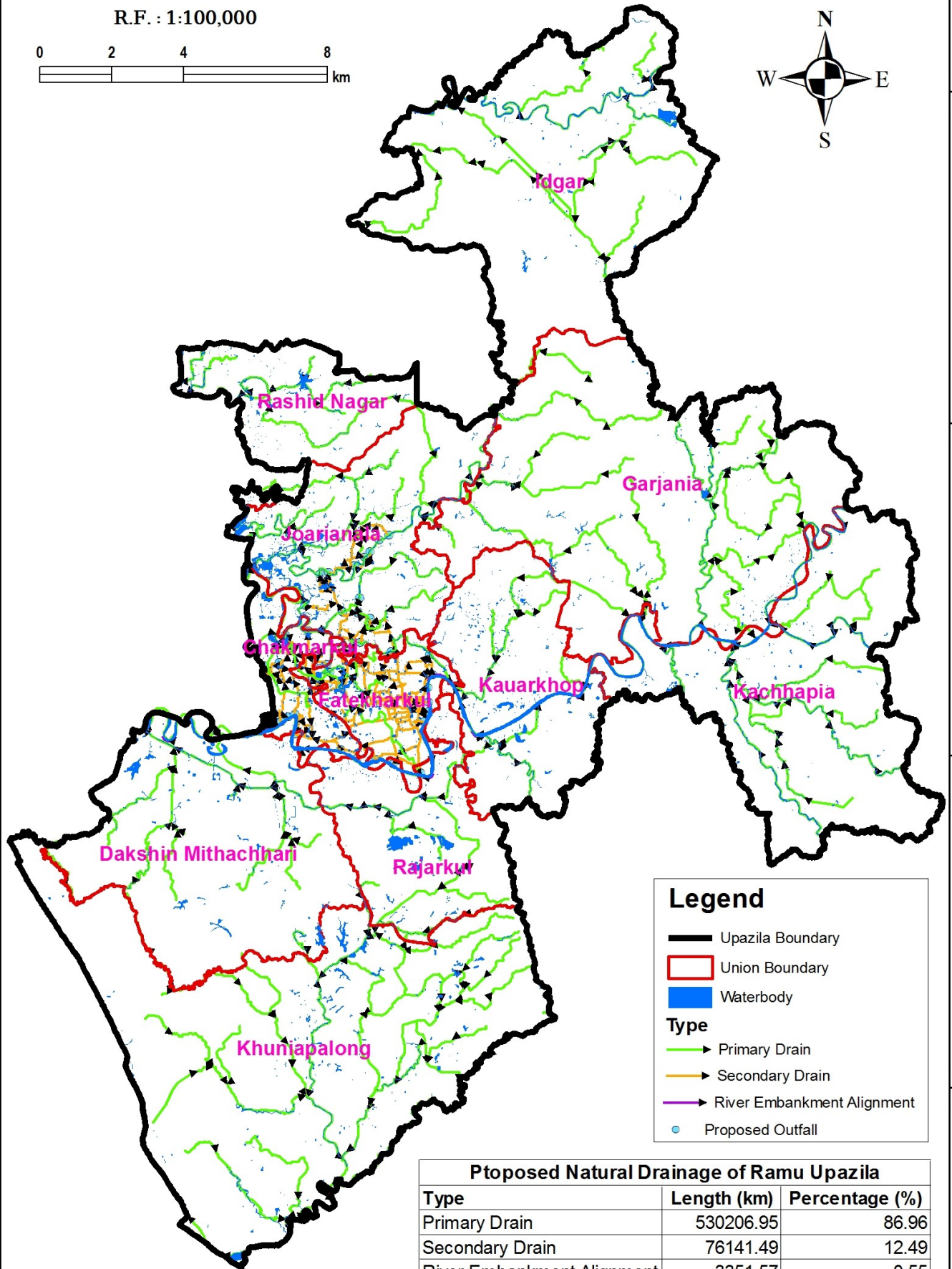
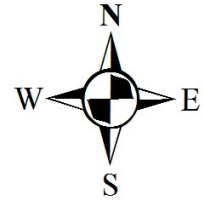
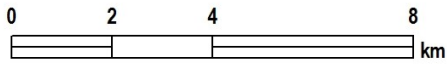


Legend		Type
	Upazila Boundary	Hilly Area
	Union Boundary	Planted Forest
	Road	Natural Forest
	Waterbody	Orchards and Groves
		Non Surveyed Area

Vegetation of Ramu Upazila		
Type	Area (Acre)	Percentage (%)
Hilly Area	50080.28	51.79
Planted Forest	405.28	0.42
Natural Forest	46060.20	47.64
Orchards and Groves	143.89	0.15
Total	96689.65	100.00

Proposed Natural Drainage Map of Ramu Upazila

R.F. : 1:100,000



Legend

- Upazila Boundary
- Union Boundary
- Waterbody
- Type**
- Primary Drain
- Secondary Drain
- River Embankment Alignment
- Proposed Outfall

Proposed Natural Drainage of Ramu Upazila		
Type	Length (km)	Percentage (%)
Primary Drain	530206.95	86.96
Secondary Drain	76141.49	12.49
River Embankment Alignment	3351.57	0.55
Total	609700.01	100.00

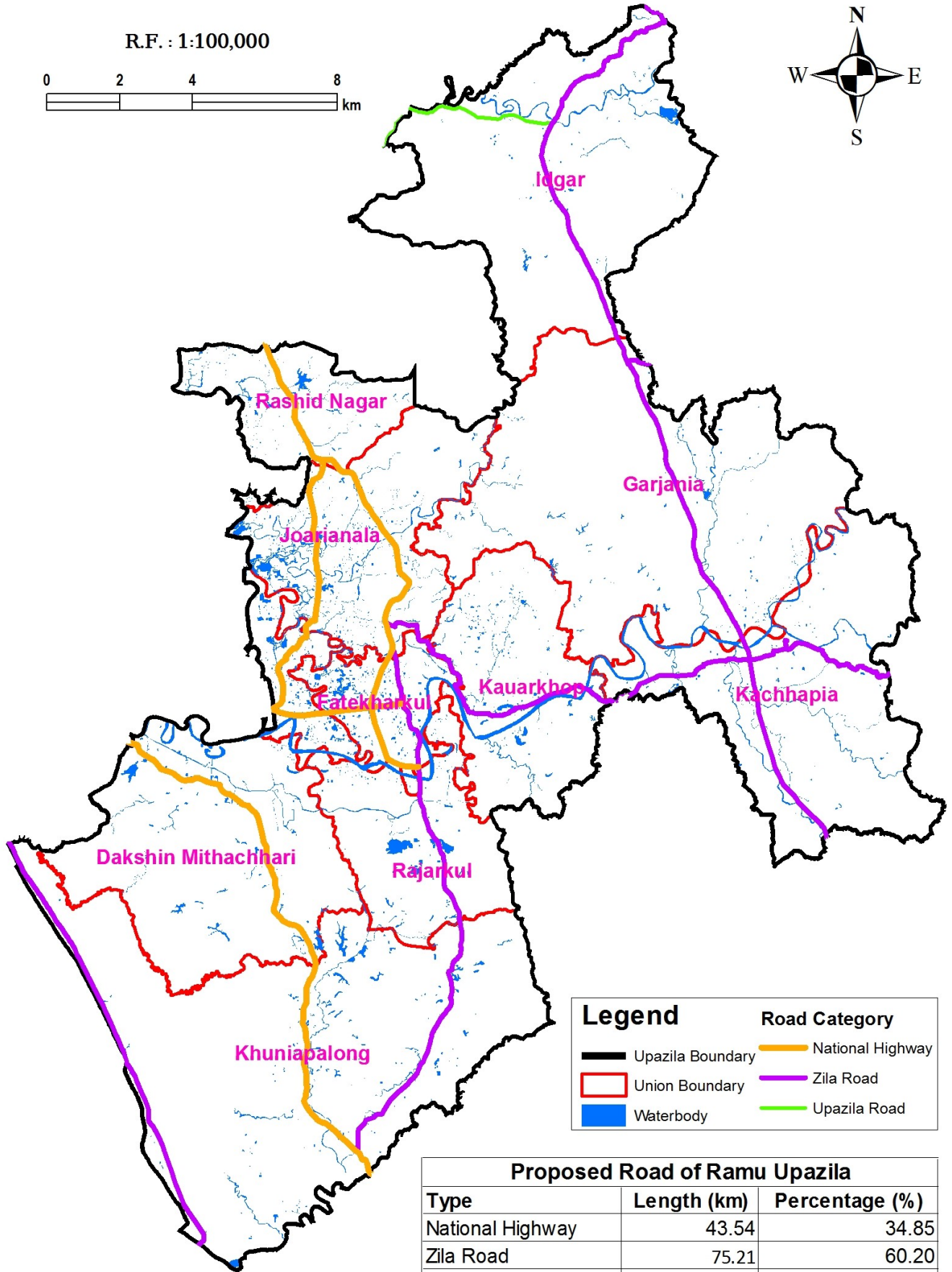
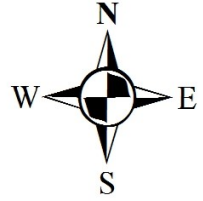
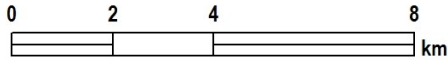
21°35'N
21°30'N
21°25'N
21°20'N

21°35'N
21°30'N
21°25'N
21°20'N

92°E 92°5'E 92°10'E 92°15'E

Proposed Road Map of Ramu Upazila

R.F. : 1:100,000

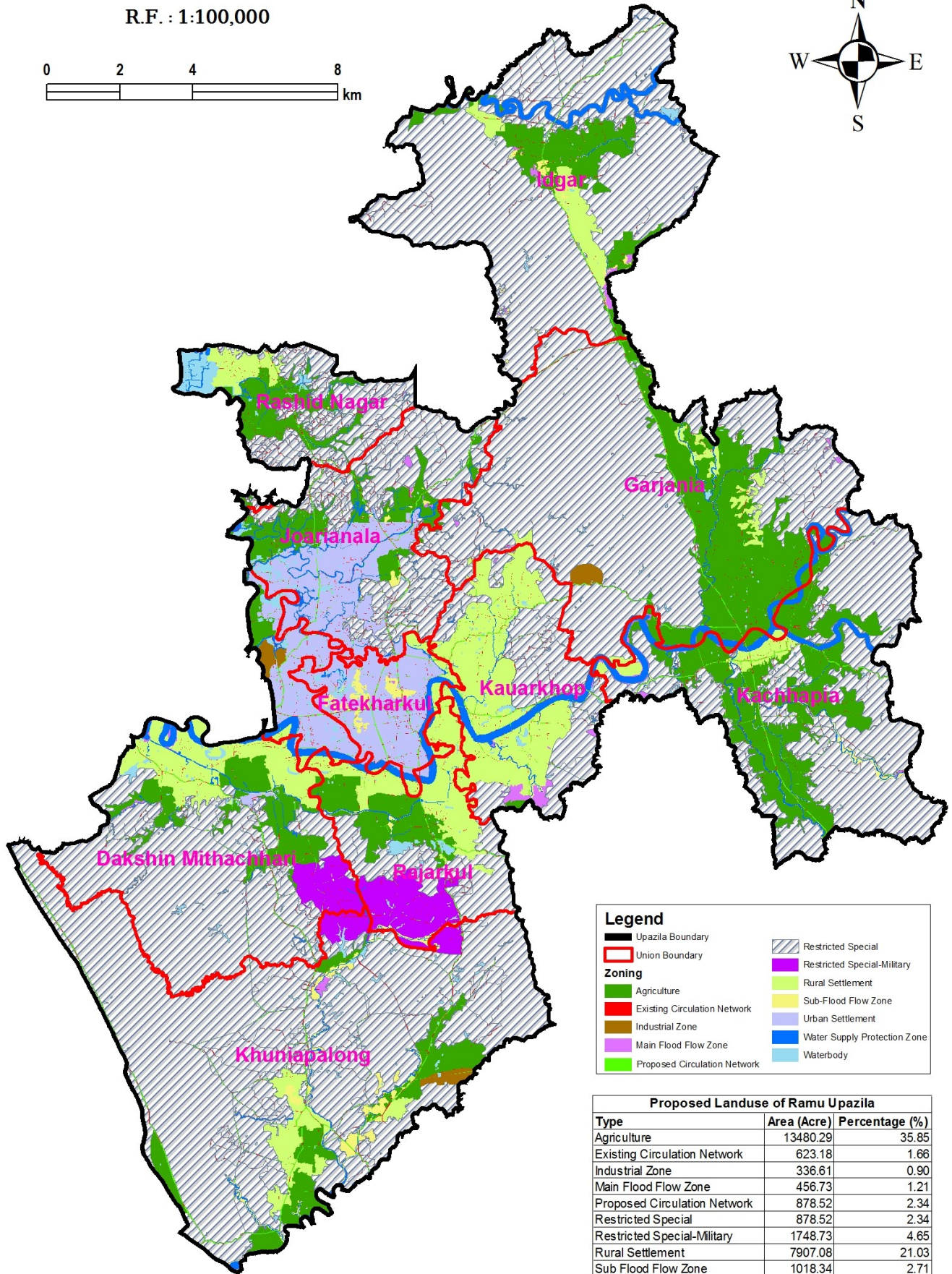
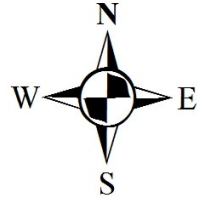
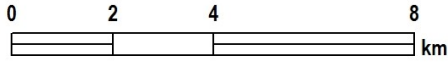


Legend		Road Category	
	Upazila Boundary		National Highway
	Union Boundary		Zila Road
	Waterbody		Upazila Road

Proposed Road of Ramu Upazila		
Type	Length (km)	Percentage (%)
National Highway	43.54	34.85
Zila Road	75.21	60.20
Upazila Road	6.18	4.94
Total	124.93	100.00

Proposed Landuse Map of Ramu Upazila

R.F. : 1:100,000



Legend	
Upazila Boundary	Restricted Special
Union Boundary	Restricted Special-Military
Zoning	
Agriculture	Rural Settlement
Existing Circulation Network	Sub-Flood Flow Zone
Industrial Zone	Urban Settlement
Main Flood Flow Zone	Water Supply Protection Zone
Proposed Circulation Network	Waterbody

Proposed Landuse of Ramu Upazila		
Type	Area (Acre)	Percentage (%)
Agriculture	13480.29	35.85
Existing Circulation Network	623.18	1.66
Industrial Zone	336.61	0.90
Main Flood Flow Zone	456.73	1.21
Proposed Circulation Network	878.52	2.34
Restricted Special	878.52	2.34
Restricted Special-Military	1748.73	4.65
Rural Settlement	7907.08	21.03
Sub Flood Flow Zone	1018.34	2.71
Urban Settlement	4548.45	12.10
Water Supply Protection Zone	4308.06	11.46
Waterbody	1417.28	3.77
Total	37601.79	100.00