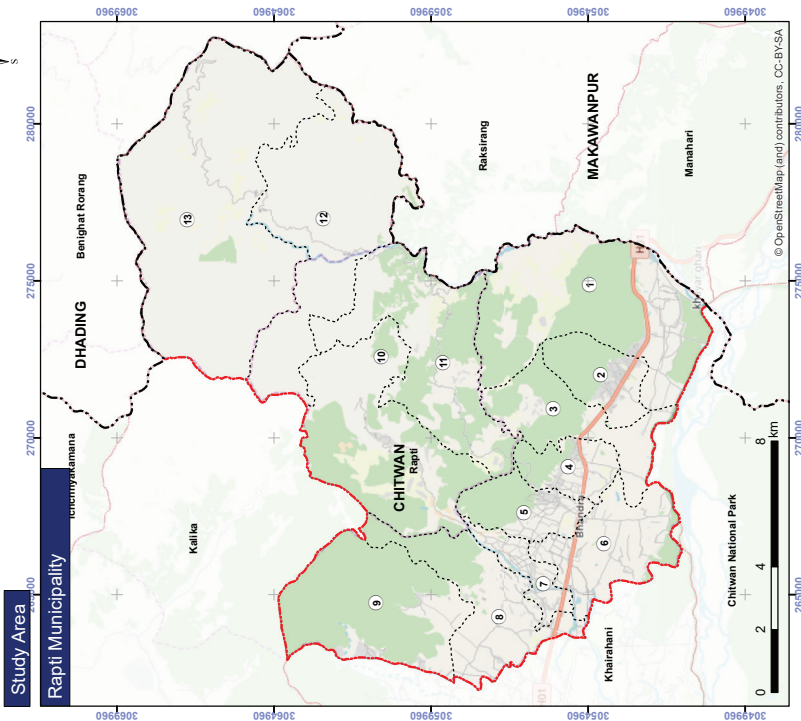
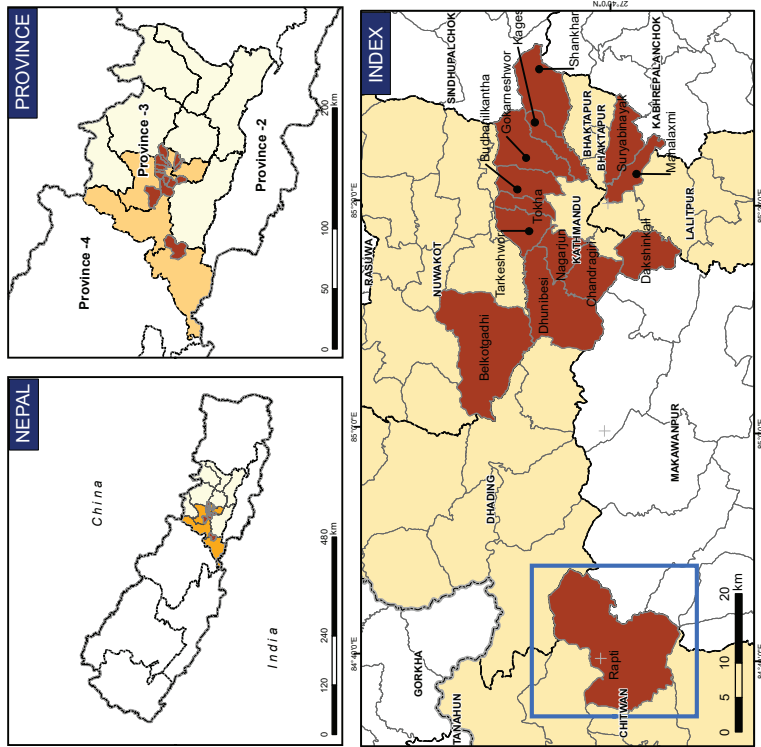


Map No: 1 LOCATION MAP



[Integrated Urban Development Plan of 14 Municipalities]

Package: DUBBC/CS/QCBS-11-074-75

Geographic Coordinate System: GCS_WGS_1984
Datum: WGS 1984
Prime Meridian: Greenwich (0.0)
False Northing: 0.0
False Easting: 0.0
Central Meridian: 87.0
Scale Factor: 1.0
Units: Meter (1.0)

EMRC PVT. LTD
NEST PVT. LTD
JV



Department of Urban Development
and Building Construction
Bakmatal, Kathmandu

Note:

- This project is under Department of Urban Development and Building Construction. The index frame in current map shows 14 municipalities under this project package, out of which 9 municipalities lies in Kathmandu, 1 in Bhaktapur, 1 in Lalitpur, 1 in Nuwakot, 1 in Dhading and 1 in Chitwan. Districts of the study area in current map are 14 municipalities out of these 14 municipalities.

Legend

International Boundary: ---
Province Boundary: ---
District Boundary: ---
Municipality Boundary: ---
Ward Boundary: ---
Administrative Boundary, Department of Survey: ---

Regional Linkage Map



[Integrated Urban Development Plan of 14 Municipalities]

Package: DUDBC/CS/QCBS-11-074-75



ERMC PVT. LTD
NEST PVT. LTD
JV
GeoCom International Pvt.Ltd

WGS_1984_UTM_zone_45N	Geographic Coordinate System: GCS_WGS_1984
Projection:	Transverse_Mercator
False easting:	500000.0
False northing:	0.0
Scale factor:	0.9996
Latitude of origin:	0.0
Longitude of origin:	10.0
Units:	Meter (1.0)

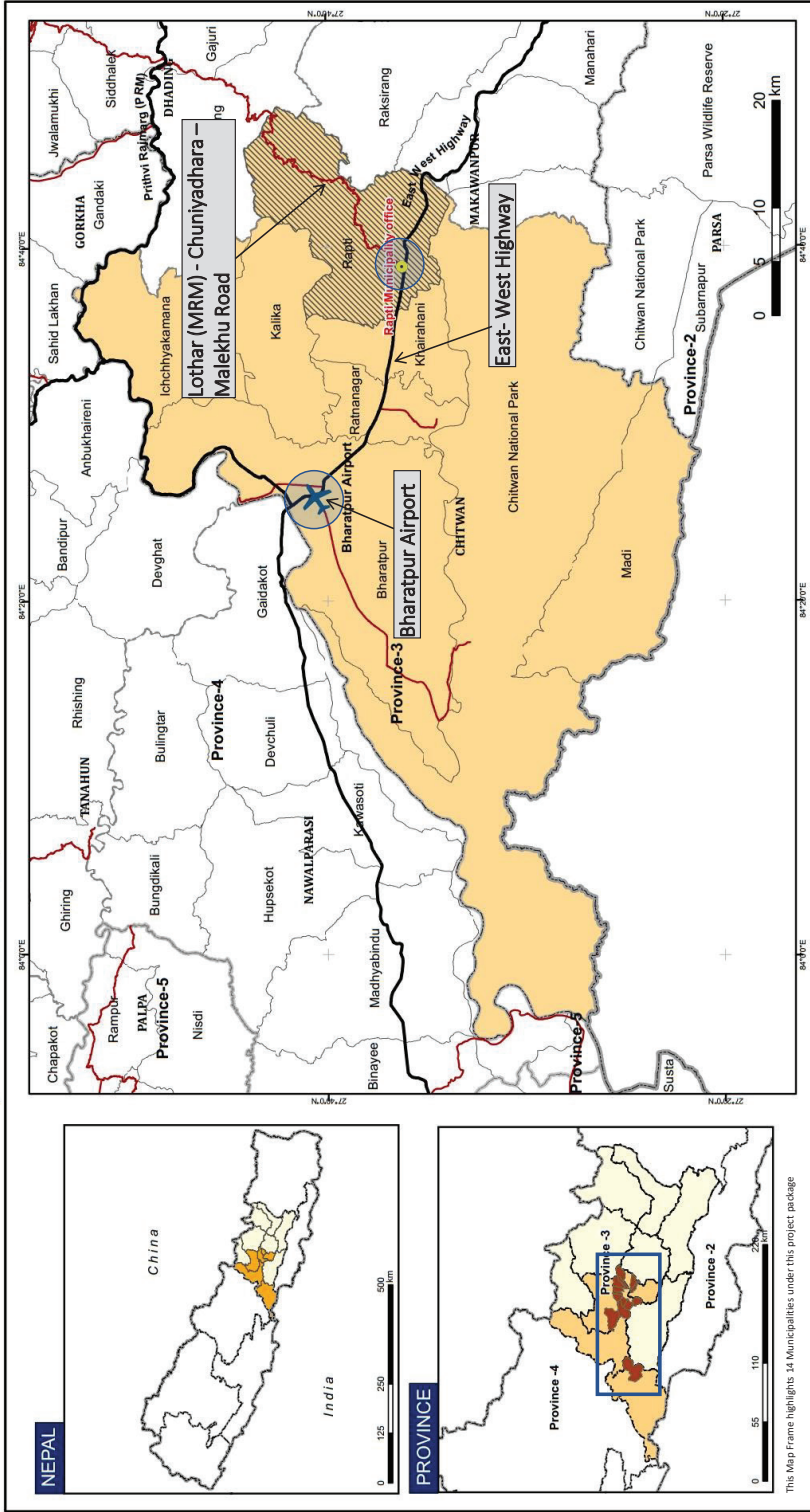
ad Network

- Local Bodies**
Metropolitan City
Sub-Metropolitan City
Municipality
Rural Municipality
National Park
Wildlife Reserve
- Road Network**
National Highway
Feeder Road
- Airport**
- Rapid Municipality Office**

Source: Administrative Boundary: Department of Survey and Mapping; Road Network: Department of Road

Map No: 3

Hinterland Map



Legend

- International Boundary
- Province Boundary
- District Boundary
- Local Bodies Boundary
- District Headquarters
- Chitwan
- Airport

Source:

- Administrative Boundary: Department of Survey
- Road Network: Department of Road

WGS_1984_UTM_zone_45N

Projection: Transverse Mercator
 Scale: 6300000
 false_northing: 0.0
 false_easting: 0.0
 datum: WGS_1984
 spheroid: WGS_1984
 prime_meridian: 85.0
 semi_major_axis: 6378137.0
 semi_minor_axis: 6356752.314245179
 linear_unit: Meter (1.0)

[Integrated Urban Development Plan of 14 Municipalities]

Package: DUBDC/CS/QCBS-11-074-75

ERM PVT. LTD

ERM PVT. LTD

ERM PVT. LTD

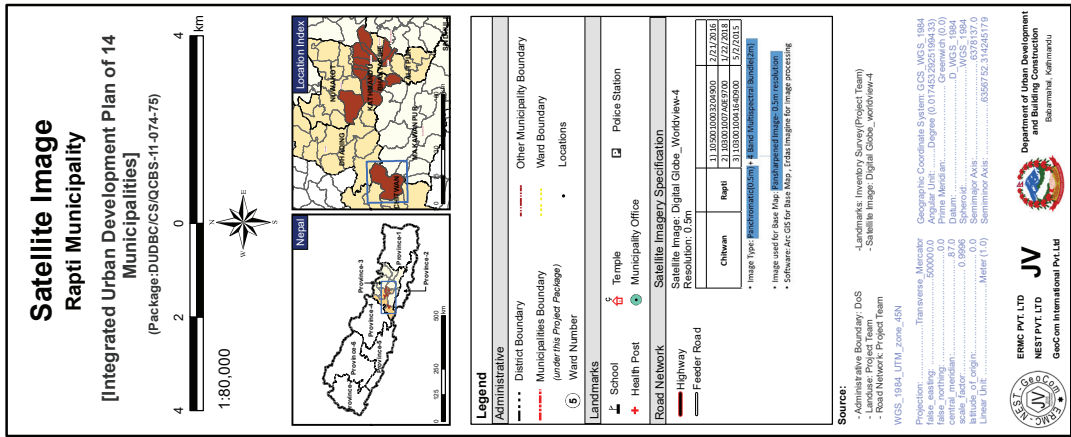
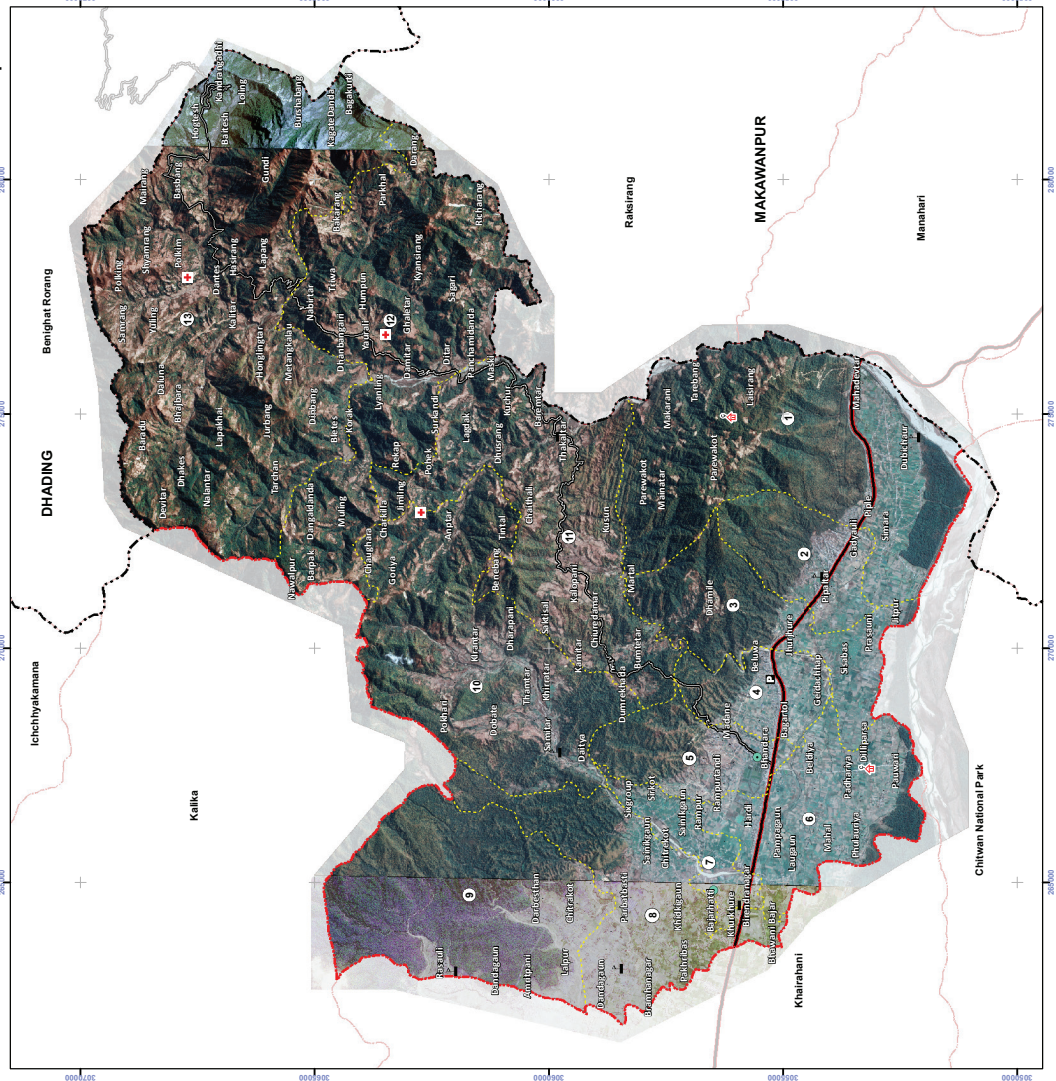


ERM PVT. LTD

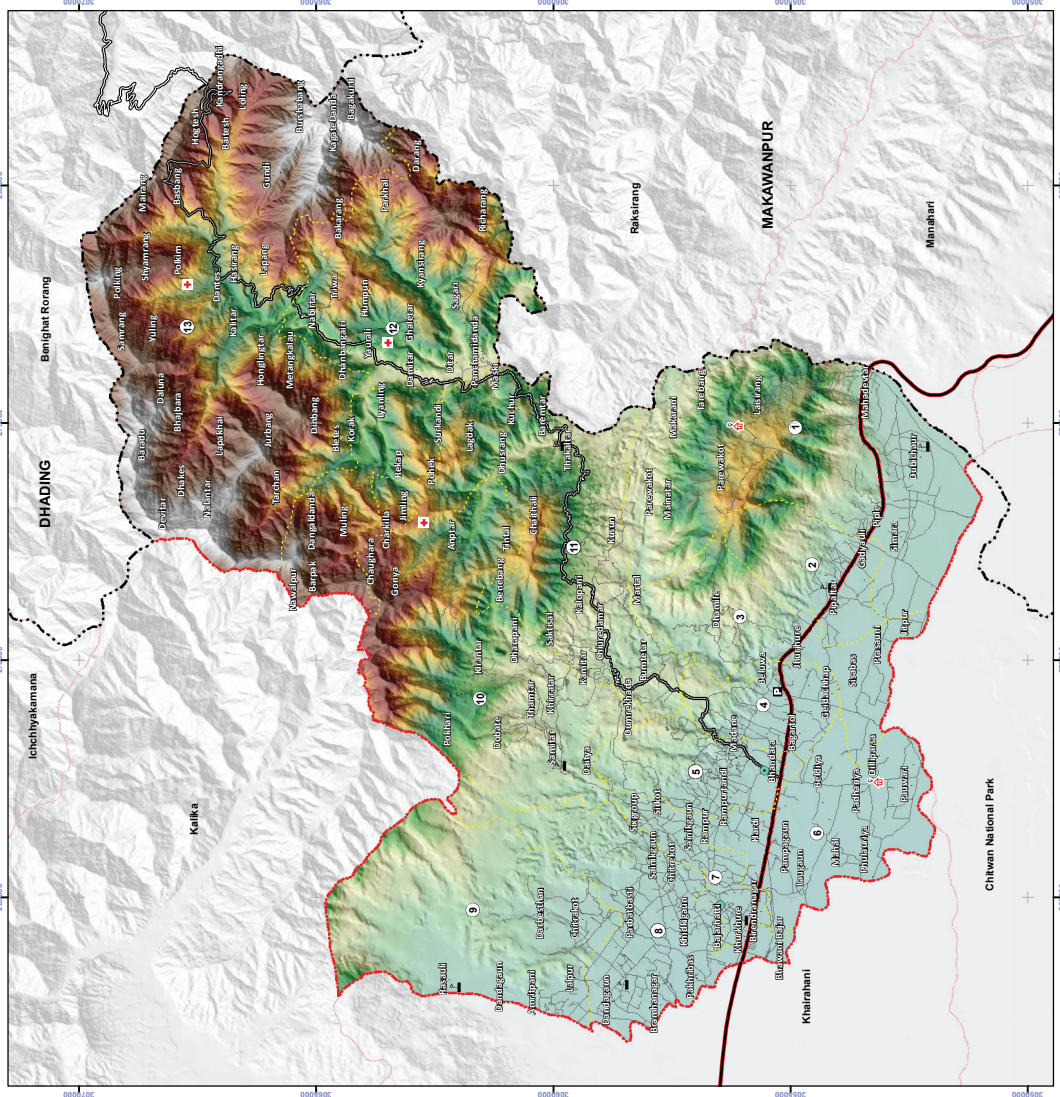
ERM PVT. LTD

ERM PVT. LTD

Map No- 4



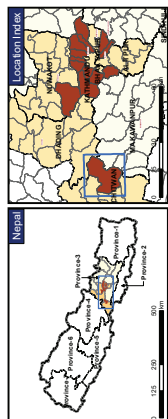
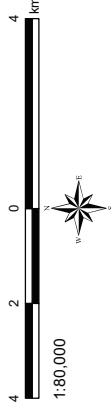
Map No- 5



Elevation Model Rapti Municipality

[Integrated Urban Development Plan of 14
Municipalities]

(Package: DUBDC/CS/QCBS-11.074.75)



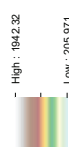
Legend

Administrative	
--- District Boundary	--- Other Municipality Boundary
--- Municipality Boundary	--- Ward Boundary
(under this Project Package)	
5 Ward Number	• Locations

Landmarks	
⚓ School	⛪ Temple
⚕ Health Post	🏢 Municipality Office
👮 Police Station	

Road Network	
== Highway	
== Feeder Road	
== Other Road	

Digital Elevation Model	
High : 194.232	Low : 205.971



Source:

- Administrative Boundary: DoS
- Landuse: Project Team
- Road Network: Project Team
- DEM: Project Team

Geographic Coordinate System: GCS_WGS_1984
Datum: Everest
Spheroid: Everest
Datum Shift: 0
Scale Factor: 0.9996
False Easting: 500000.0
False Northing: 0
Units: Meter (1.0)

BMG PVT. LTD
NET PVT. LTD
GeoCon International Pvt.Ltd

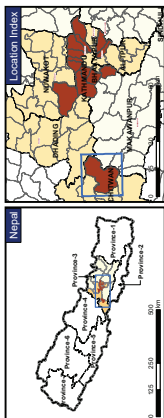
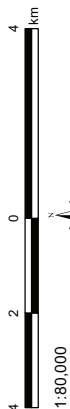
Department of Urban Development
and Building Construction
Kathmandu, Nepal

Map No- 6



Landuse Map Rapti Municipality

[Integrated Urban Development Plan of 14
Municipalities]
(Package:DUDBC/CS/QCBS-11-074-75)



Legend	
Administrative	
District Boundary	--- District Boundary
Municipalities Boundary	--- Municipalities Boundary
Ward Boundary	--- Ward Boundary
Locations	• Locations
Ward Number	5 Ward Number
Landmarks	
Hospital	Health Post
School	Municipality Office
Temple	Police Station

Existing Landuse	
Road Network	
National Highway	Play Ground
Feeder Road	Barren Land
Other Road	Industrial
	Brick kilns
	Builtup
	Forest
	River
	Pond/Lake
	Others

Source:
- Administrative Boundary: D/S
- Landuse: Project Team
- Road Network: Project Team
WGS_1984_UTM_Zone_45N

Projection:
Transverse Mercator
Geographic Coordinate System: GCS_WGS_1984
Datum: WGS 1984
Angular Unit: Degree (0.0174532925199433)
Prime Meridian: Greenwich
False Easting: 500000.0
False Northing: 0.0
Scale Factor: 0.9996
Spheroid: WGS 1984
Semi-major Axis: 6378137.0
Semi-minor Axis: 6356752.314245179
Units: Meter (1.0)

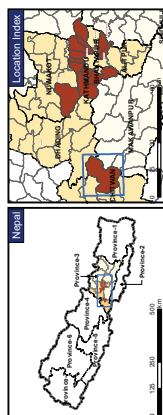
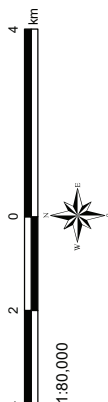
Logos:
EMIC PVT. LTD
NIST PVT. LTD
GeoCom International Pvt Ltd
Department of Urban Development and Building Construction
Bharatpur, Kathmandu

Population Density

Rapti Municipality

[Integrated Urban Development Plan of 14 Municipalities]

(Package: DUDBC/CS/QCBS-11-074-75)



Legend	
Administrative	
----- District Boundary	Other Municipality Boundary
----- Municipality Boundary	Ward Boundary
----- (under this Project Package)	Locations
⑤ Ward Number	
Landmarks	
④ Hospital	② School
④ Health Post	④ Municipality Office
④ Temple	④ Police Station
Road Network	
— National Highway	Population Density (PPH)
— Feeder Road	
— Strategic Urban Road	
— Municipal road	
	0-2.5
	2.5-5
	5-10
	10-15
	15-20

Source:

- Administrative Boundary: DoS
- Landmarks: Inventory Survey(Project Team)
- Population: Rapid Municipality- Household Survey
- Landuse: Project Team

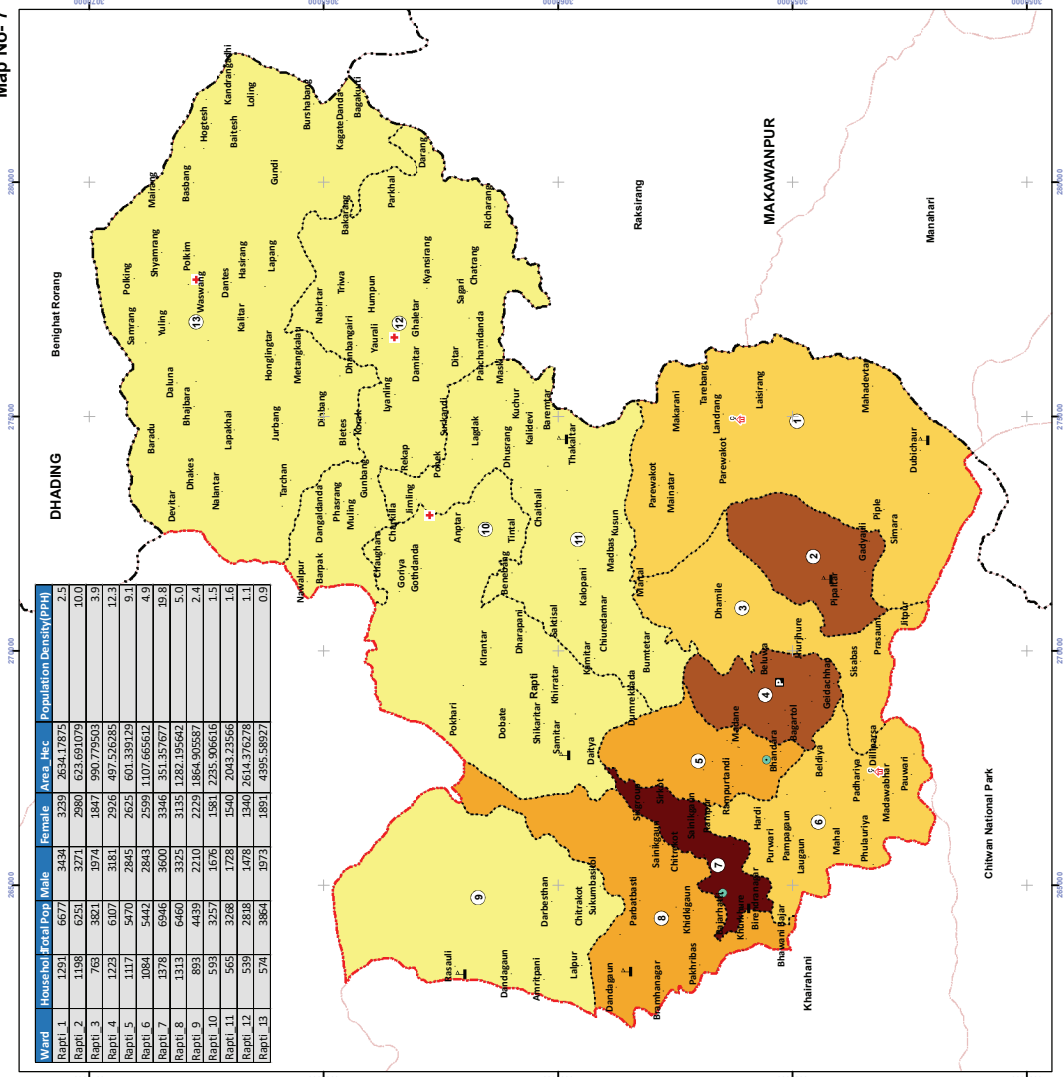
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False northing:	0.0	False northing:
Central meridian:	-87.0	Datum:
Scale factor:	0.998	Spheroid:
False center:	0.0	Semimajor Axis:
Latitude of origin:	0.0	Minor Axis:
False center Unit:	Meter (1.0)	Semimajor Axis: 6356752.314245179



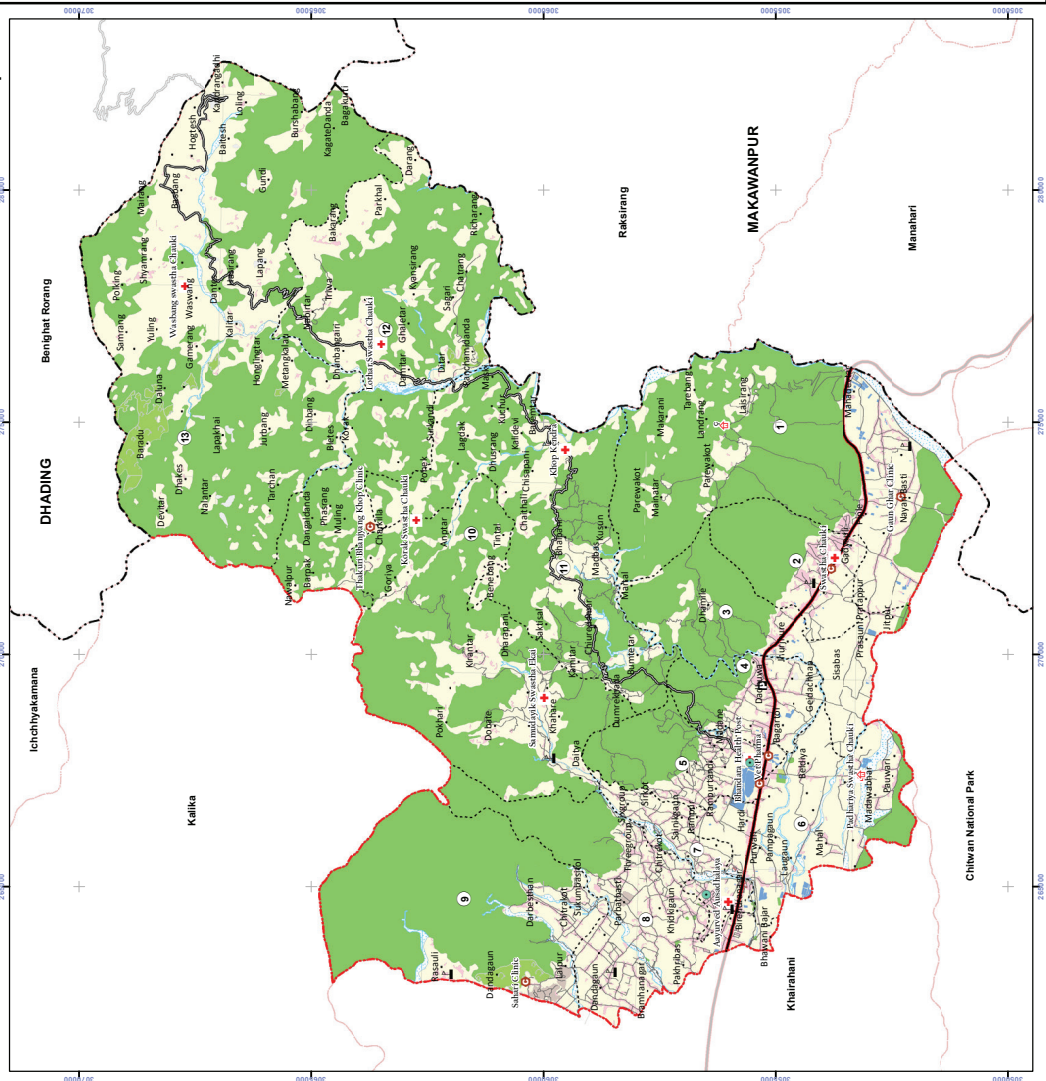
JV
ERM PVT. LTD
WEST PVT. LTD
GeoCom International Pvt.Ltd



Ward	Household	Male	Female	Area_sq	Population Density(per sq mi)
Ward 1	1291	6677	3434	3289	2634.17875
Ward 2	1292	6677	3434	3289	2634.17875
Ward 3	1198	6251	3271	2980	623.691079
Ward 4	1261	6251	3271	2980	623.691079
Ward 5	1273	6021	3174	1847	990.779503
Ward 6	1228	6021	3174	1847	990.779503
Ward 7	1268	6021	3174	1847	990.779503
Ward 8	1117	5470	2845	2625	601.339129
Ward 9	1147	5470	2845	2625	601.339129
Ward 10	1084	5470	2845	2625	601.339129
Ward 11	1278	6946	3600	3446	351.876727
Ward 12	1313	6460	3325	3115	1262.195642
Ward 13	893	4439	2210	2229	1864.905587
Ward 14	1153	3257	1676	1581	2335.906516
Ward 15	565	3268	1728	1540	2043.23566
Ward 16	539	2884	1478	1340	1634.37678
Ward 17	574	2884	1478	1340	1634.37678
Ward 18	574	2884	1478	1340	1634.37678
Ward 19	574	2884	1478	1340	1634.37678
Ward 20	574	2884	1478	1340	1634.37678
Ward 21	574	2884	1478	1340	1634.37678
Ward 22	574	2884	1478	1340	1634.37678
Ward 23	574	2884	1478	1340	1634.37678
Ward 24	574	2884	1478	1340	1634.37678
Ward 25	574	2884	1478	1340	1634.37678
Ward 26	574	2884	1478	1340	1634.37678
Ward 27	574	2884	1478	1340	1634.37678
Ward 28	574	2884	1478	1340	1634.37678
Ward 29	574	2884	1478	1340	1634.37678
Ward 30	574	2884	1478	1340	1634.37678
Ward 31	574	2884	1478	1340	1634.37678
Ward 32	574	2884	1478	1340	1634.37678
Ward 33	574	2884	1478	1340	1634.37678
Ward 34	574	2884	1478	1340	1634.37678
Ward 35	574	2884	1478	1340	1634.37678
Ward 36	574	2884	1478	1340	1634.37678
Ward 37	574	2884	1478	1340	1634.37678
Ward 38	574	2884	1478	1340	1634.37678
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Ward 42	574	2884	1478	1340	1634.37678
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Ward 44	574	2884	1478	1340	1634.37678
Ward 45	574	2884	1478	1340	1634.37678
Ward 46	574	2884	1478	1340	1634.37678
Ward 47	574	2884	1478	1340	1634.37678
Ward 48	574	2884	1478	1340	1634.37678
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Ward 52	574	2884	1478	1340	1634.37678
Ward 53	574	2884	1478	1340	1634.37678
Ward 54	574	2884	1478	1340	1634.37678
Ward 55	574	2884	1478	1340	1634.37678
Ward 56	574	2884	1478	1340	1634.37678
Ward 57	574	2884	1478	1340	1634.37678
Ward 58	574	2884	1478	1340	1634.37678
Ward 59	574	2884	1478	1340	1634.37678
Ward 60	574	2884	1478	1340	1634.37678
Ward 61	574	2884	1478	1340	1634.37678



Map No-9

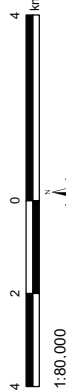


Health Facilities

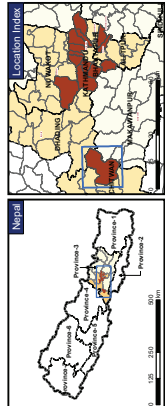
Rapti Municipality

[Integrated Urban Development Plan of 14 Municipalities]

(Package: DUDBC/CS/QCBS-11-074-75)



1:80,000



Legend

Administrative	Other Municipality Boundary
--- District Boundary	--- Ward Boundary
--- Municipality Boundary (under this Project Package)	• Locations
(5) Ward Number	
Landmarks	
• School	• Temple
• Municipality Office	• Police Station
Road Network	Landuse
--- Highway	■ Agriculture
--- Feeder Road	■ Barren Land
--- Other Road	■ Industrial
	■ Brick Area
	■ Pond/Lake
	■ Forest
	■ Riverbed
	■ Bush
	■ Others
Health Facilities	
• Hospital	• PHCC
• Health post	• Clinic

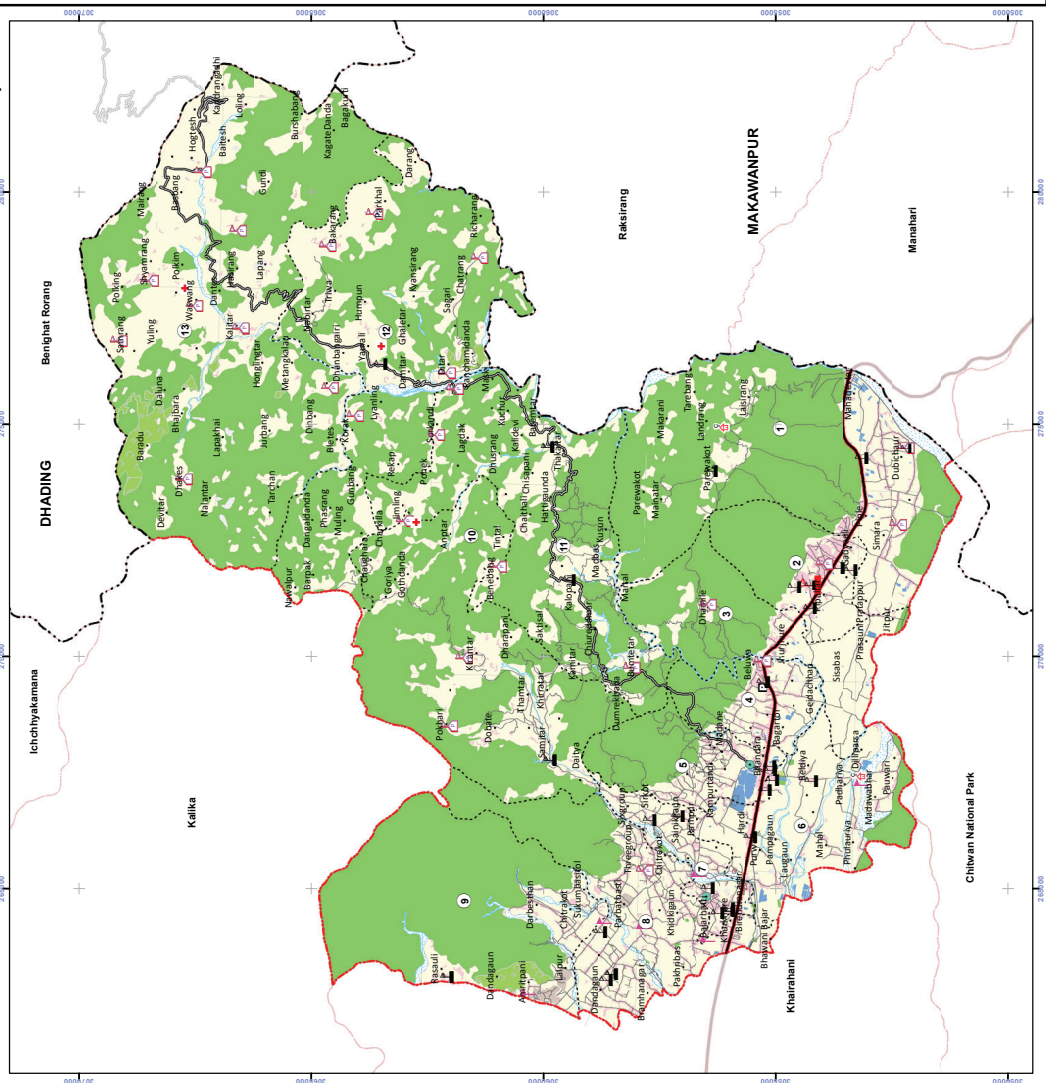
Source:

- Administrative Boundary: DoS
 - Landmarks: Aerial Survey (Project Team)
 - Health facilities: Inventory Survey (Project Team)
 - Road Network: Project Team
 VGS, 1984, UTM, zone 45N
 Projection: Transverse Mercator
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 false northing: 0.0
 prime meridian: Degree (0.0174532925198433)
 scale factor: 0.9996
 datum: WGS 1984
 latitude of origin: 0.0
 semi-major axis: 6378137.2
 minor axis: 6356752.314245179
 spheroid: Everest
 datum: Everest
 datum: Everest

EIMC PVT. LTD.
 NEST PVT. LTD.
 GeoCom International PVT. LTD.

Department of Urban Development
 and Building Construction
 Kathmandu, Nepal

Map No- 10



Educational Institutions

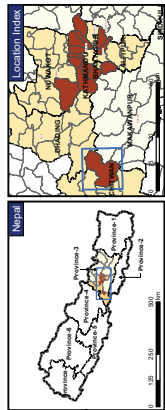
Rapti Municipality

[Integrated Urban Development Plan of 14 Municipalities]

(Package: DUDBC/CS/QCBS-11-074-75)

4 2 0 4 km

1:80,000



Legend

Administrative	Other Municipality Boundary
District Boundary	Municipality Boundary (under this Project Package)
Ward Boundary	Locations
Ward Number	
Landmarks	
Hospital	Police Station
Healthpost	Municipality Office
Temple	
Road Network	Landuse
Highway	Agriculture
Feeder Road	Barren Land
Other Road	Brick kilns
	Industrial
	Pond/Lake
	Forest
	Riverbed
	Bush
	Others
Educational Institutions	
College	Higher Secondary School
	Secondary School
	Lower Secondary School
	Primary School

Source:

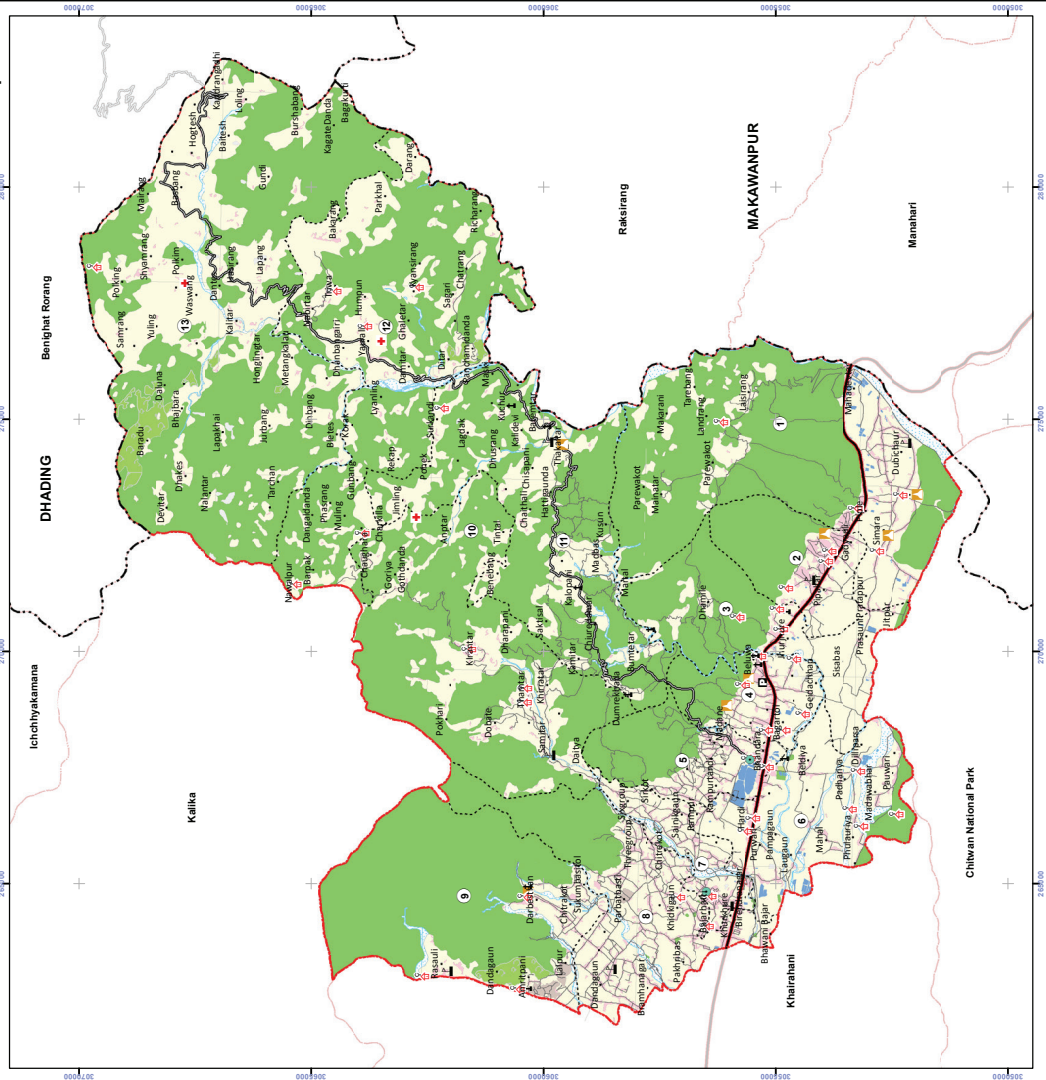
Administrative Boundary: DoS
 Landmarks: Aerial Survey (Project Team)
 Health facilities: Ministry Survey (Project Team)
 Road Network: Project Team
 VGS, 1984, UTM, zone 45N

Projection: Transverse Mercator
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 false northing: 0.0
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 minor axis: 6356732.314245179
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 Angular Unit: Degree (0.0174532925196433)
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 Datum: WGS 1984
 Spheroid: D, WGS 1984
 Semimajor Axis: 6378137.2
 Semiminor Axis: 6356732.314245179



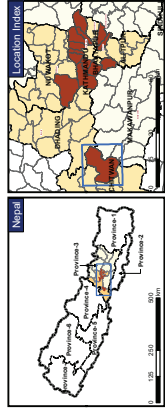
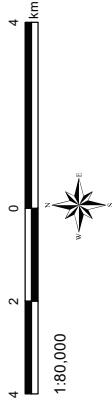
EMC PVT. LTD
 NEST PVT. LTD
 GeoCom International Pvt.Ltd

Map No- 11



Religious Places Rapti Municipality

[Integrated Urban Development Plan of 14 Municipalities]
(Package: DUDBC/CS/QCBS-11-074-75)



Legend

	District Boundary		Other Municipality Boundary
	Municipality Boundary (under this Project Package)		Ward Boundary
	Ward Number		Locations
Landmarks			
	Hospital		Municipality Office
	Police Station		School
Road Network			
	National Highway		Agriculture
	Feeder Road		Barren Land
	Other Road		Industrial
	River/Lake		Brick kilns
	Builtup		Pond, Pond/Lake
	Forest		River/Waterbody
	Riverbed		Forest
Religious Places			
	Temple		Monastery
	Church		Crematorium
	Shiva		

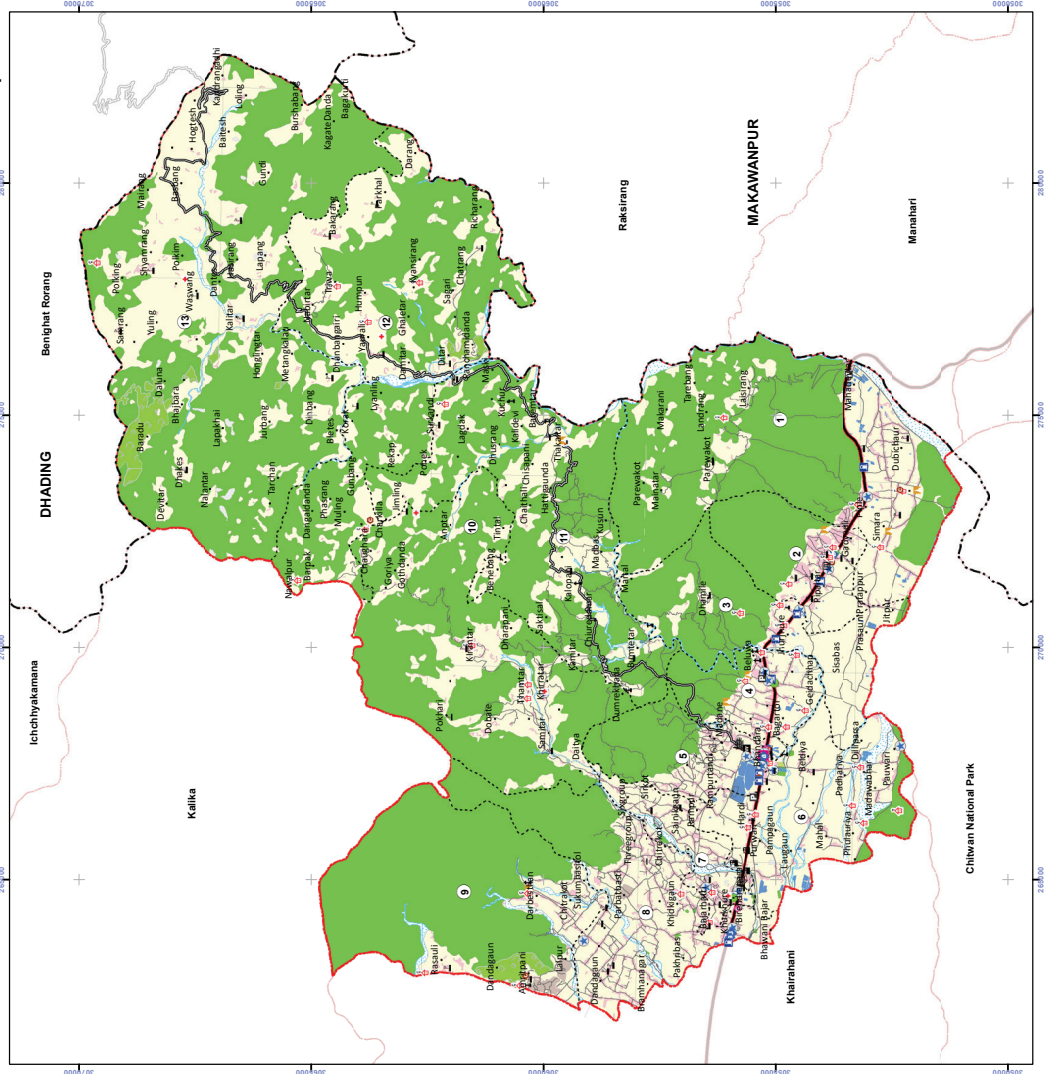
Source:

- Administrative Boundary: DoS
- Landmarks: Aerial Survey (Project Team)
- Project Team: GeoCom International Pvt. Ltd.
- Religious Places: Inventory Survey (Project Team)
- Road Network: Project Team
WGS 1984, UTM, zone 45N
Projection: Transverse Mercator
Datum: Everest
Units: Meter
Scale: 1:50,000
Date: 2075
Scale Factor: 0.9998
Latitude of Origin: 27° 30' 00" N
Longitude of Origin: 85° 30' 00" E
Datum Shift: 161
Spheroid: Everest
Prime Meridian: Greenwich
Angular Unit: Degree
Linear Unit: Meter
Geographic Coordinate System: GCS_WGS_1984
Datum: WGS 1984
Spheroid: Everest
Prime Meridian: Greenwich
Angular Unit: Degree
Linear Unit: Meter
Datum Shift: 161
Spheroid: Everest
Prime Meridian: Greenwich
Angular Unit: Degree
Linear Unit: Meter
Datum Shift: 161

EMC PVT. LTD. JV
NEST PVT. LTD.
GeoCom International Pvt. Ltd.

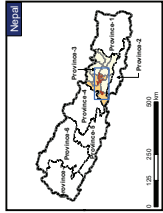
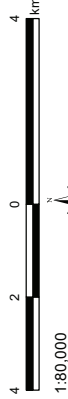
Department of Urban Development and Building Construction
Bharatpur, Kathmandu

Map No- 12



Services and Facilities Rapti Municipality

[Integrated Urban Development Plan of 14 Municipalities]
(Package: DUDBC/CS/QCBS-11-074-75)



Legend	
Administrative	
--- District Boundary	--- Other Municipality Boundary
--- Municipality Boundary	--- Ward Boundary
(5) Ward Number	• Locations
Road Network	
— National Highway	— Landuse
— Feeder Road	— Agricultural
— Other Road	— Built-up
	— Forest
	— Waterbody
	— Others
Service and Facilities	
✕ Farm	✕ Educational
✕ Petrol Pump	✕ Bank
✕ Radio	✕ Co-Operative
✕ Shopa	✕ Clinic
✕ Church	✕ Health Post
✕ Temple	✕ Large Scale
	✕ Factory
	✕ Mining/Quarry...
	✕ Service
	✕ Meditation
	✕ Police Station
	✕ Government office
	✕ NGO/NGO

Source:

- Administrative Boundary: DoS
- Landuse: Aerial Photo Survey (Project Team)
- Project Team: Survey (Project Team)
- Service and Facilities: Inventory Survey (Project Team)
- WGS 1984, UTM, zone 45N

Projection: Transverse Mercator

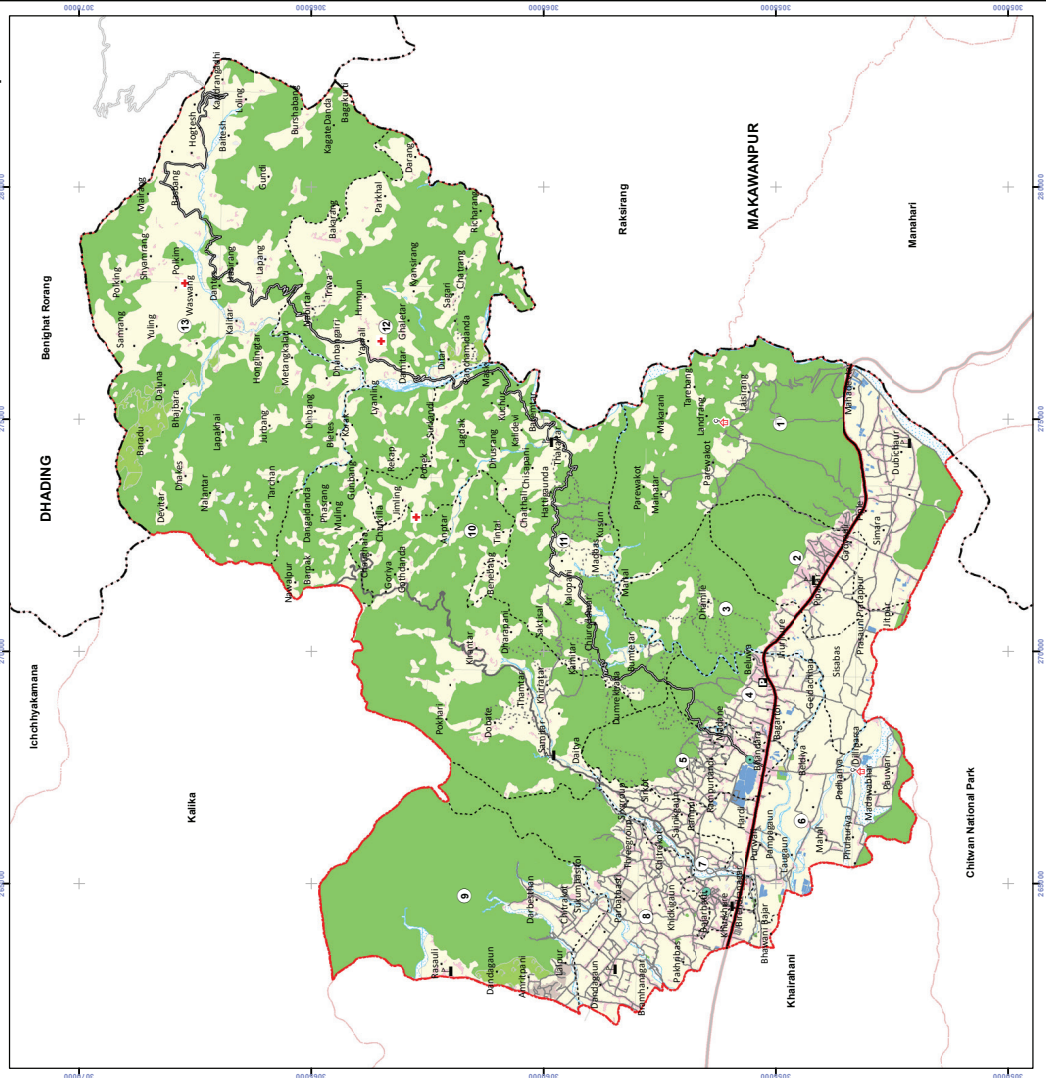
Scale: 1:50,000

Units: Meter

Geographic Coordinates: Spher: GCS, WGS 1984
 Line: easting 500000.0
 Angle: Unit Degree (0.0174532925198433)
 Prime Meridian Greenwich (0.0)
 Spheroid WGS 1984
 Scale Factor 0.9996
 Latitude of Origin 27.0
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 Semiminor Axis 6356752.314245179



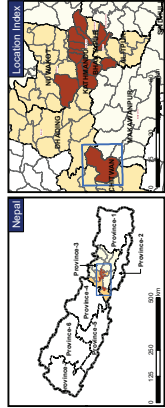
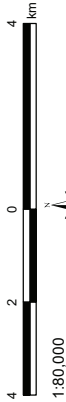
Map No- 13



Road Hierarchy Map Rapti Municipality

[Integrated Urban Development Plan of 14
Municipalities]

(Package DUBDC/CS/QCBS-11-074-75)



Legend

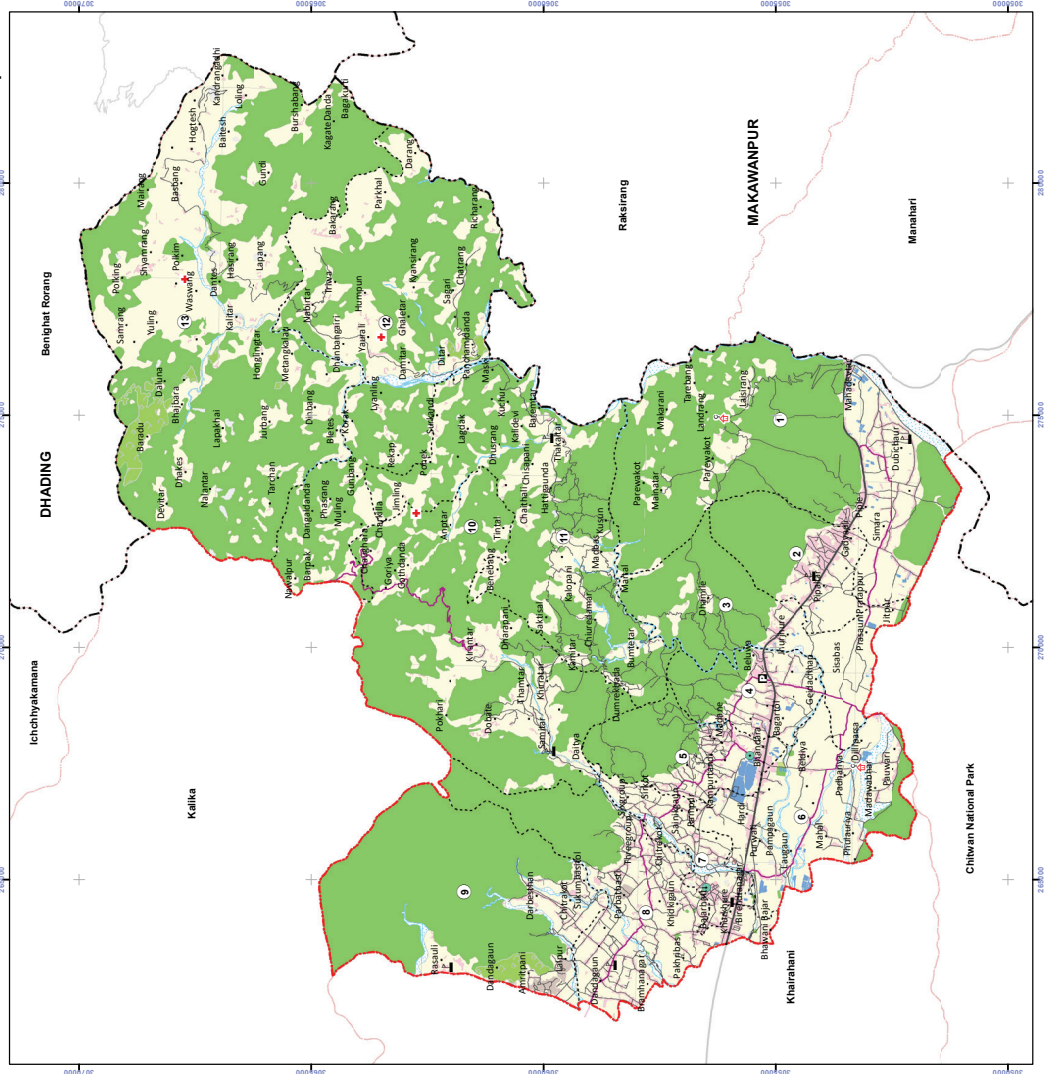
Administrative	District Boundary	Other Municipality Boundary
	Municipalities Boundary (under this Project Package)	Ward Boundary
	Ward Number	Locations
Landmarks	Hospital	School
	Health Post	Municipality Office
	Police Station	Temple
Road Hierarchy	National Highway	Existing Landuse
	Feeder Road	Agriculture
	Municipal Road	Barren Land
	Trail Road	Brick kilns
		Buildup
		Forest
		Riverbed
		Others

Source:

Administrative Boundary: DoS
Project Team
Road Network: Project Team
VGS, 1984, UTM, Zone 45N
Projection: Transverse Mercator
false easting: 500000.0
false northing: 0.0
prime meridian: Greenwich (0.0)
scale factor: 0.9996
latitude of origin: 0.0
false easting: 656752.3
false northing: 1426177.9
datum: Everest (1.0)
units: Meter (1.0)



Map No- 14

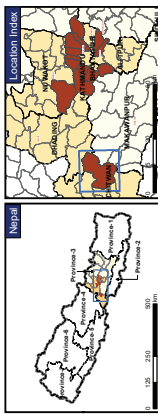
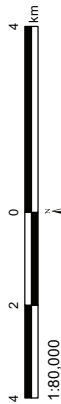


Road Width Classification

Rapti Municipality

[Integrated Urban Development Plan of 14 Municipalities]

(Package: DUDBC/CS/QCBS-11-074-75)



Legend

Administrative	District Boundary	Other Municipality Boundary
	Municipality Boundary	Ward Boundary
	Locations	Locations
Landmarks	Hospital	School
	Health Post	Municipality Office
	Police Station	Police Station
Road Width	<4	Existing Landuse
	4-6	Agriculture
	6-8	Barren Land
	8-10	Brick kilns
	10-15	Builtup
	15-20	Forest
		River/Waterbody
		Forest
		Bush, Grass
		Others

Source:

Administrative Boundary: DoS
Project Team
Road Network: Project Team
VGS, 1984, UTM, zone_45N

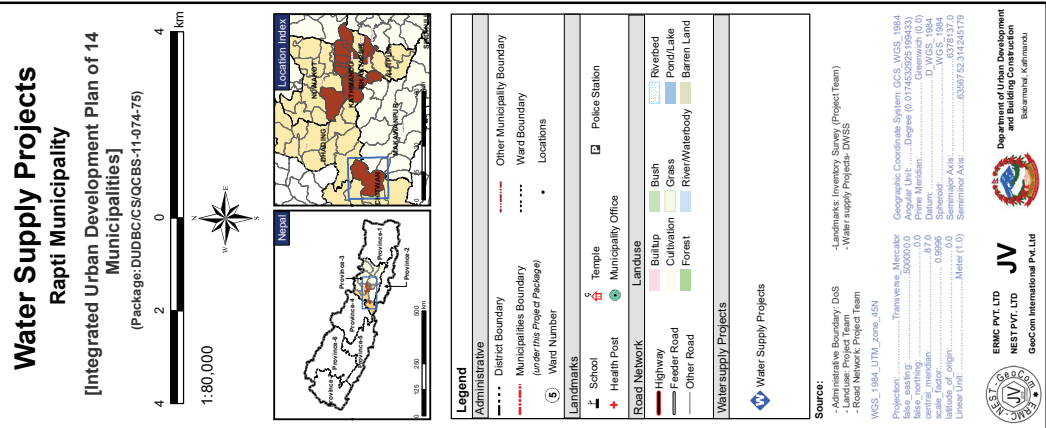
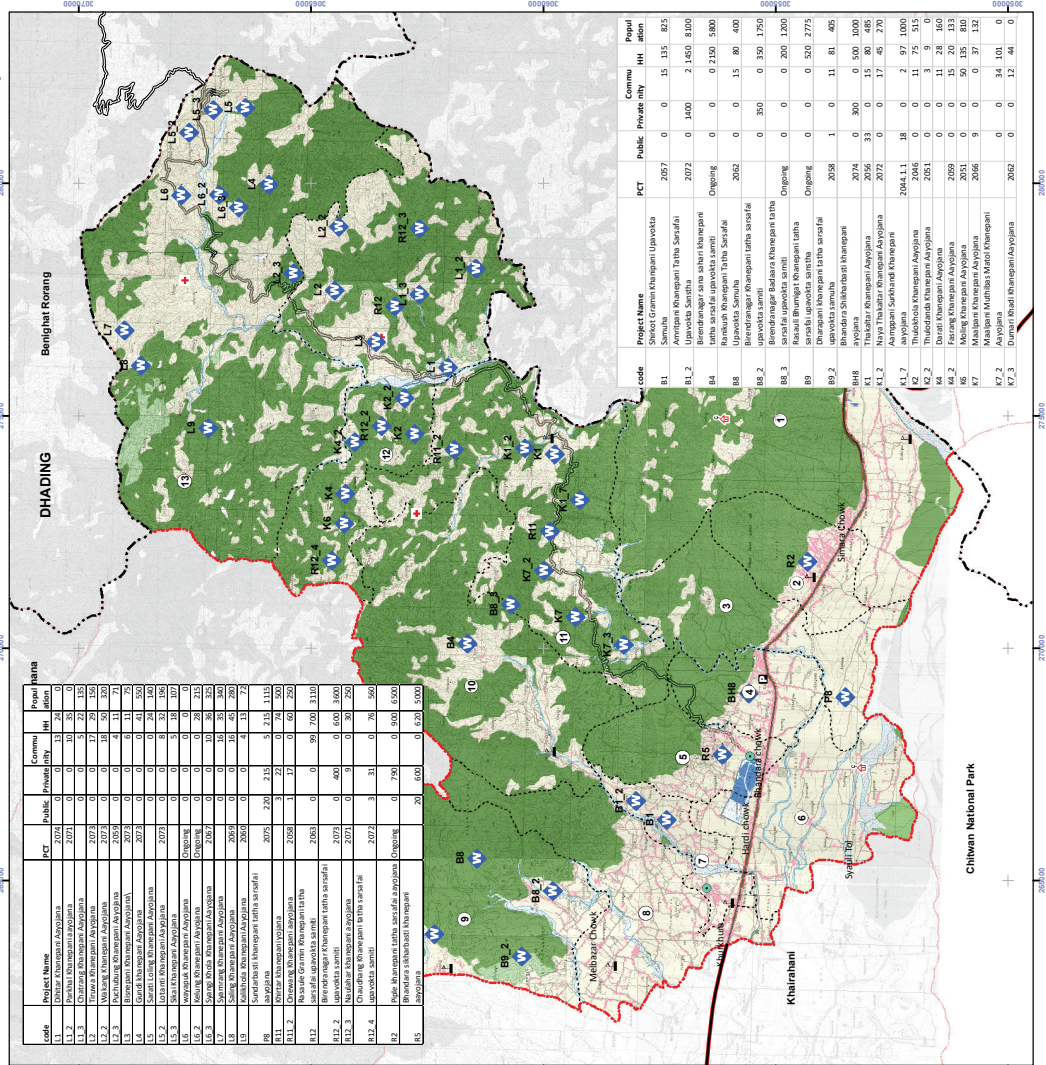
Topographic: Survey of India
Aerial Photo: 1984, UTM, zone_45N

Projection: Transverse Mercator
Datum: Everest
Scale: 1:50,000
Units: Meter
Easting: 500,000.0
Northing: 0.0
Prime Meridian: Greenwich (0.0)
Datum: WGS 1984
Scale Factor: 0.9996
Spheroid: Everest
Latitude of Origin: 27.0
Semimajor Axis: 6356732.314245173
Semiminor Axis: 6355984.963111746

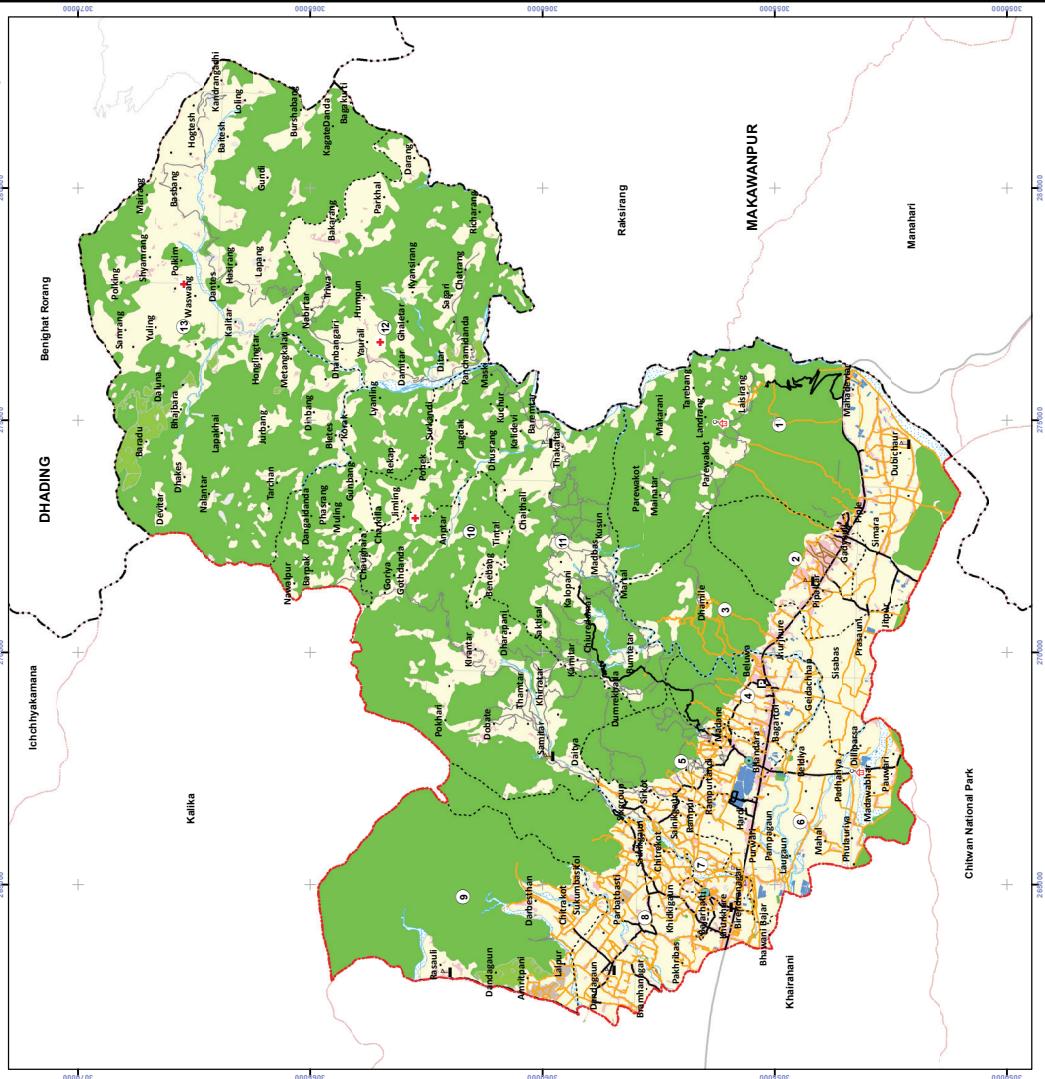
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GeoCom International Pvt.Ltd

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Bharatpur, Kathmandu

Map No- 15



Map No- 16

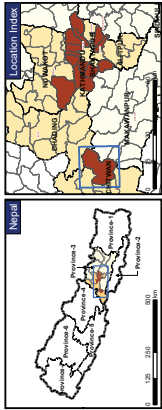


Road Surface

Rapti Municipality

[Integrated Urban Development Plan of 14 Municipalities]

(Package: DUDBC/CS/QCBS-11-074-75)



Legend

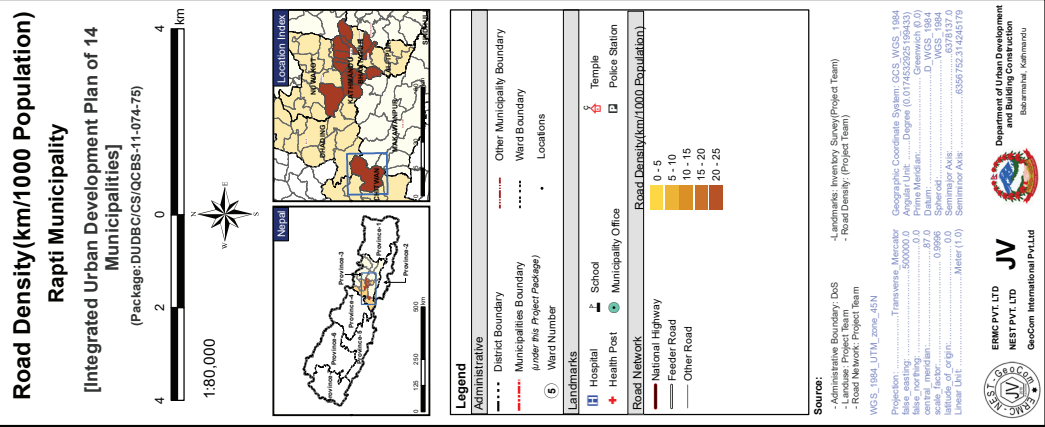
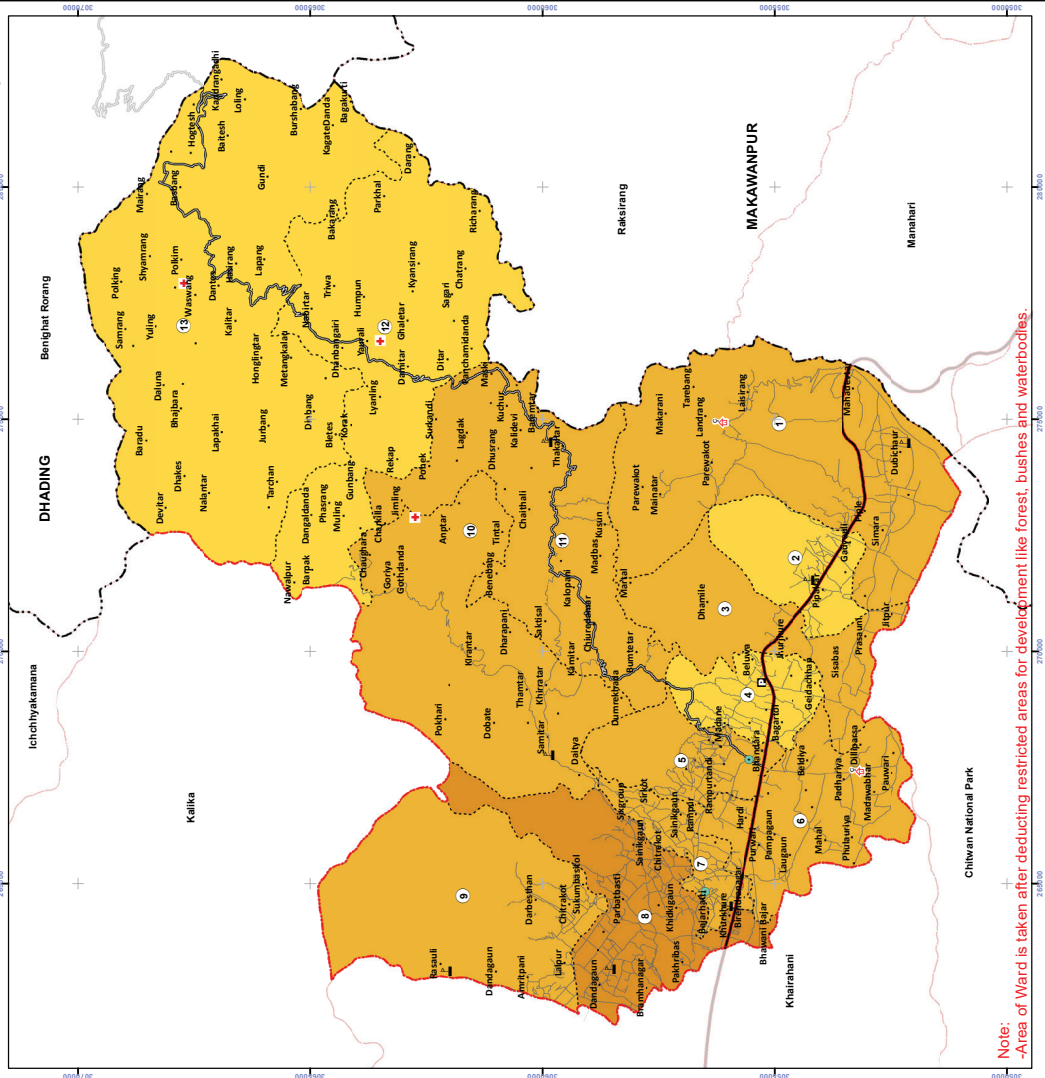
Administrative	Other Municipality Boundary
--- District Boundary	--- Ward Boundary
--- Municipality Boundary (under this Project Package)	• Locations
(5) Ward Number	
Landmarks	
Hospital	School
Health Post	Municipality Office
Police Station	Temple
Road Surface	
Metalled	Gravelled
Brick paved/Stone Paved	Brick kins
RCC/POC	Builtup
Earthen	Forest
Trails	Bush, Grass
	Others
Existing Landuse	
Agriculture	Play Ground
Barren Land	Industrial
Pond; Pond/Lake	River/Waterbody

Source:

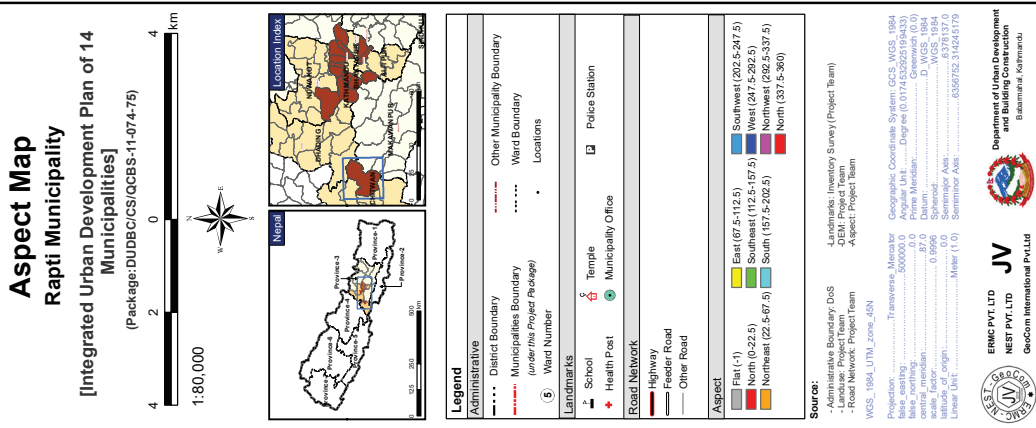
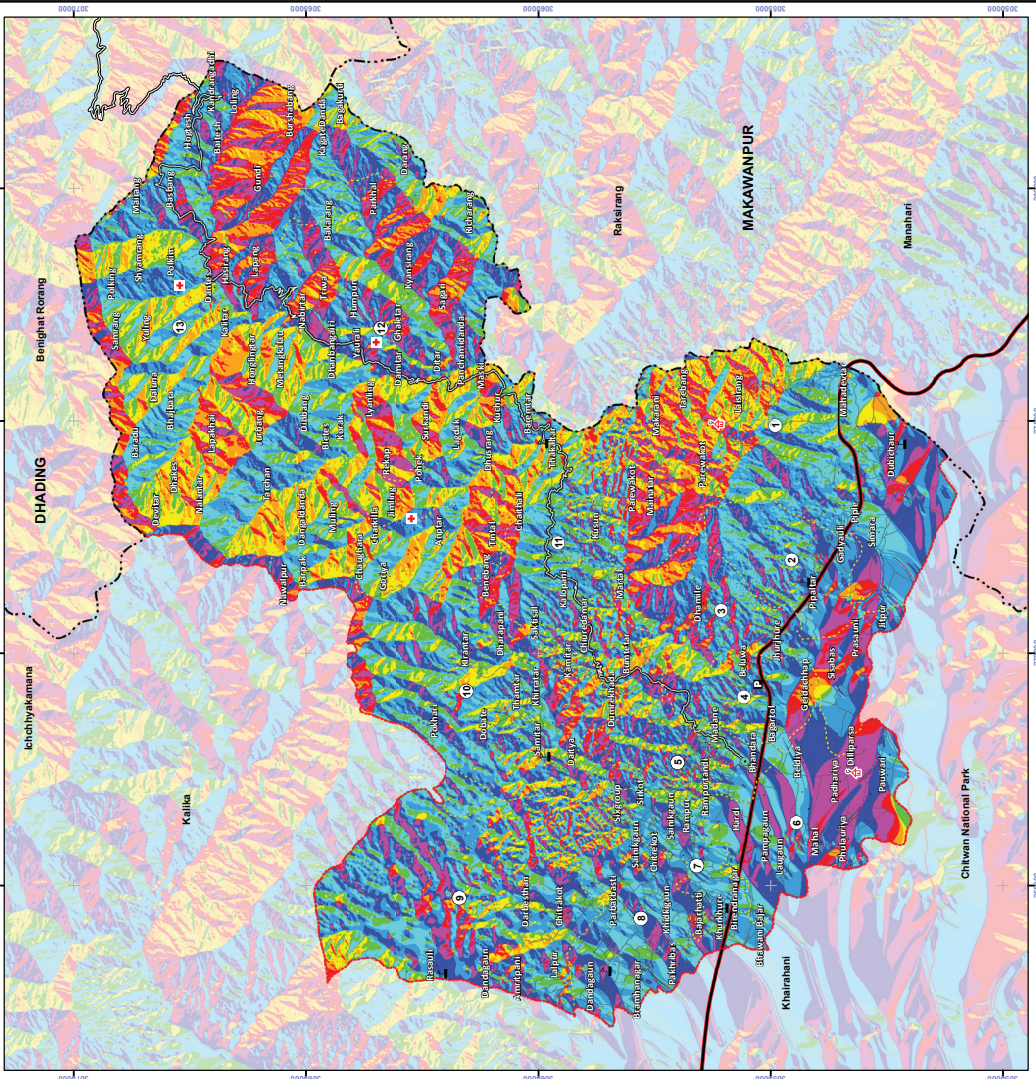
Administrative Boundary: DoS
 Project Boundary: Project Team
 Road Network: Project Team
 VGS: 1984, UTM, zone_45N
 Projection: Transverse Mercator
 false easting: 500000.0
 false northing: 0.0
 prime meridian: Greenwich (0.0)
 datum: WGS 1984
 scale factor: 0.9996
 latitude of origin: 27.0
 semi-major axis: 6378137.2
 minor axis: 6356752.314265179

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 Government of Nepal

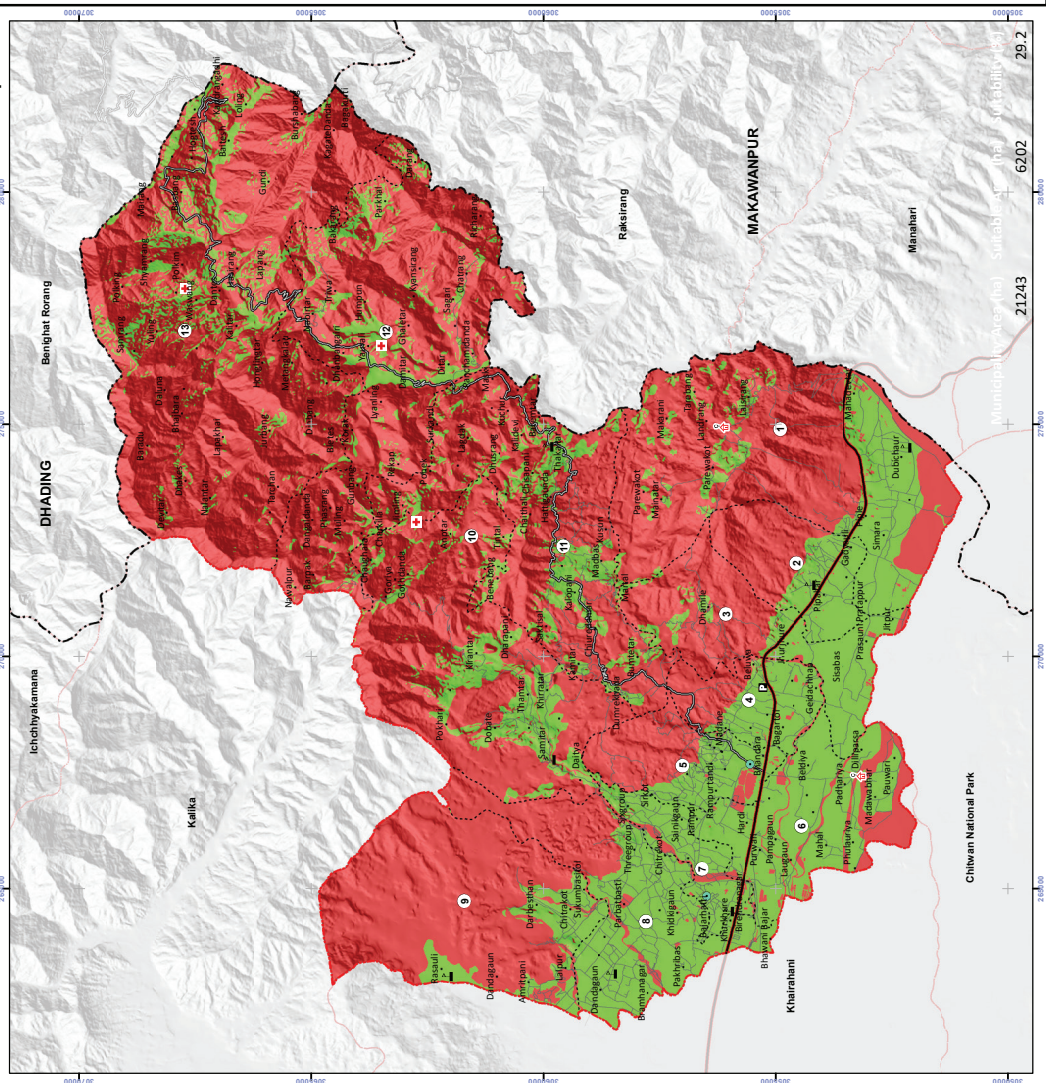
Map No- 18



Map No- 20



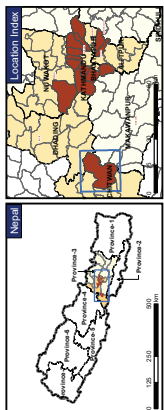
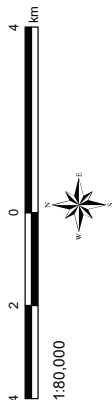
Map No- 21



Land Suitability Analysis Rapti Municipality

[Integrated Urban Development Plan of 14
Municipalities]

(Package: DUDBC/CS/QCBS-11-074-75)



Legend

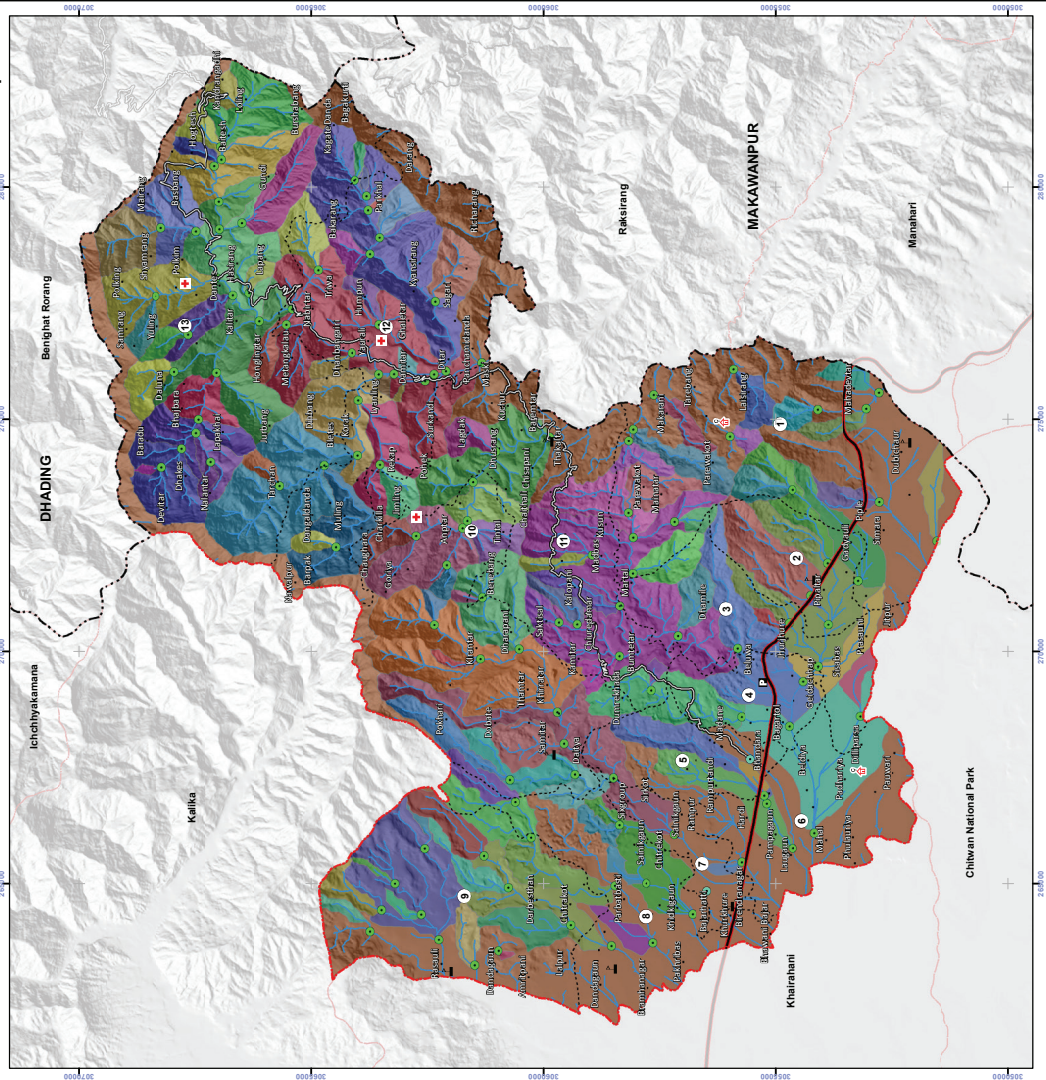
Administrative	
--- District Boundary	--- Other Municipality Boundary
--- Municipality Boundary (under this Project Package)	--- Ward Boundary
(5) Ward Number	• Locations
Landmarks	
Hospital	School
Health Post	Municipality Office
Police Station	Temple
Road Network	
National Highway	Land Suitability
Feeder Road	Suitable
Other Road	Unsuitable/Restricted

Source:

- Aerial Photo
 - Land Suitability Analysis
 - Road Network
 - Landmarks Inventory Survey (Project Team)
 - Topographic Map
 - WGS 1984, UTM, Zone 45N
 - Projection: Transverse Mercator
 - False Easting: 500000.0
 - False Northing: 0.0
 - Scale Factor: 0.9996
 - Semi-major Axis: 6378137.2
 - Minor Axis: 6356752.314255173
 - Geographic Coordinate System: GCS_WGS_1984
 - Angular Unit: Degree (0.0174532925196433)
 - Prime Meridian: Greenwich (0.0)
 - Spheroid: WGS 1984
 - Datum: WGS 1984



Map No- 22

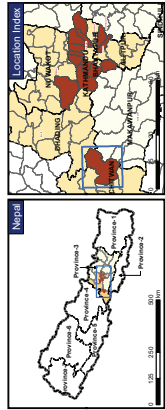


Watershed Analysis Rapti Municipality

[Integrated Urban Development Plan of 14 Municipalities]

(Package: DUDBC/CS/QCBS-11-074-75)

1:80,000



Legend

Administrative	Other Municipality Boundary
--- District Boundary	--- Ward Boundary
--- Municipality Boundary (under this Project Package)	• Locations
(5) Ward Number	
Landmarks	
Hospital	School
Health Post	Municipality Office
Road Network	Watershed
Highway	Watershed Catchment Area
Feeder Road	Pour Point
	Streamline

Source:

Landmarks Inventory Survey (Project Team)
 - Topographic Boundary, D.S.
 - Watershed Analysis Project Team
 - Road Network Project Team
 WGS, 1984, UTM, zone 45N
 Projection: Transverse Mercator
 false easting: 500000.0
 false northing: 0.0
 scale factor: 0.9998
 latitude of origin: 0.0
 semi-major axis: 6356732.31424719
 flattening: 1.0
 Geographic Coordinate System: GCS, WGS, 1984
 Angular Unit: Degree (0.0174532925196833)
 Prime Meridian: Greenwich (0.0)
 Spheroid: WGS, 1984
 Datum: WGS, 1984
 Units: Meter (1.0)



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