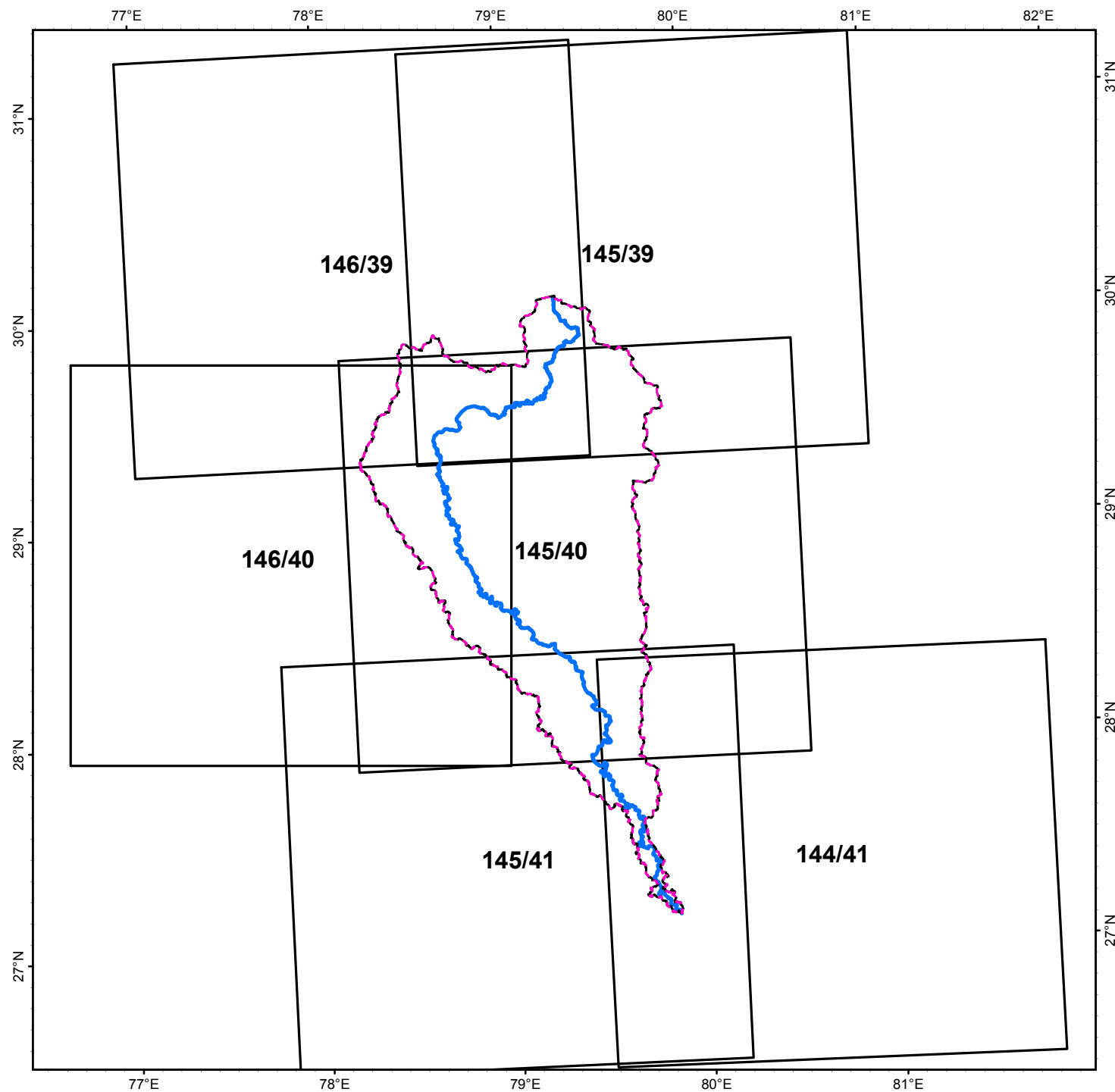




Landsat 4-5 TM Path and Rows used for Analysis snapshot of (2000, 2011)

Legend

— Ramganga River

Boundaries

Ramganga Basin

Landsat TM



0 30 60 90 120 150 Km

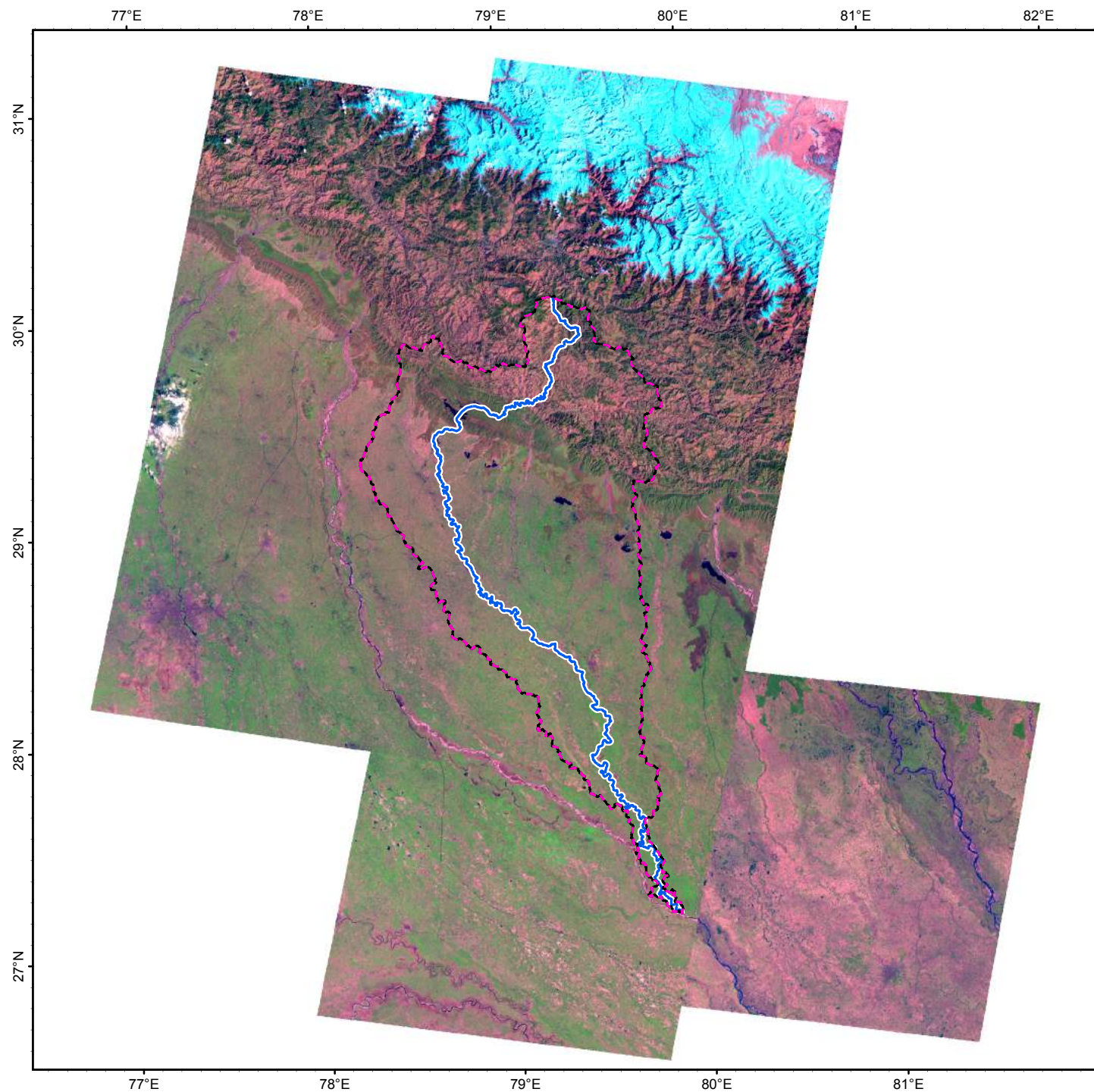
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DATE: January, 2014



**Snapshot of
Landsat 4-5 TM
March 2000 Mosaic
Bands 4, 3, 2 used
for Analysis**

Legend

- Ramganga River
- - - Ramganga Basin



0 30 60 90 120 150
Km

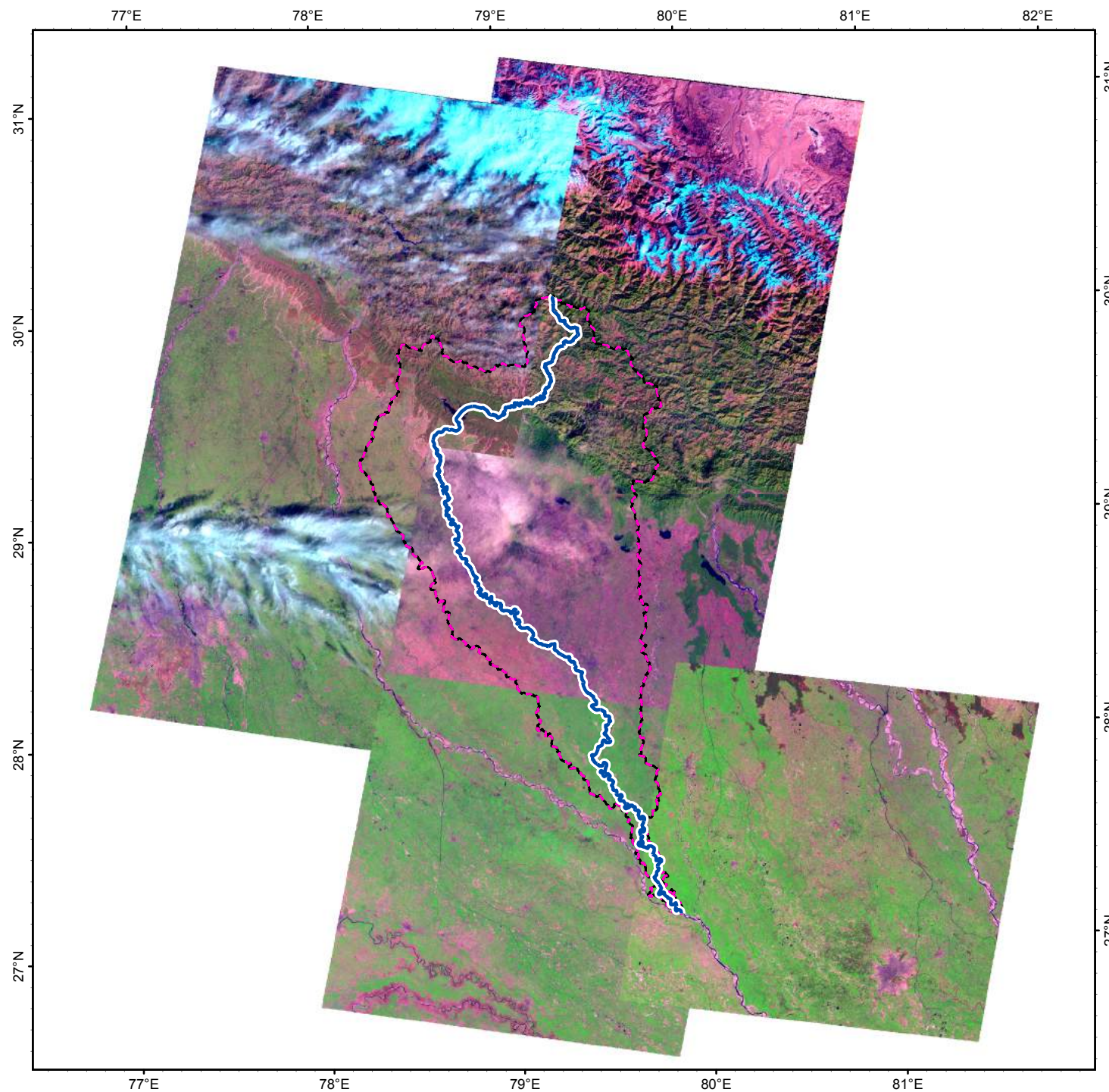
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Snapshot of Landsat 4-5 TM March 2011 Mosaic Bands 4, 3, 2 used for Analysis

Legend

- Ramganga River
- Ramganga Basin



0 30 60 90 120 150
Km

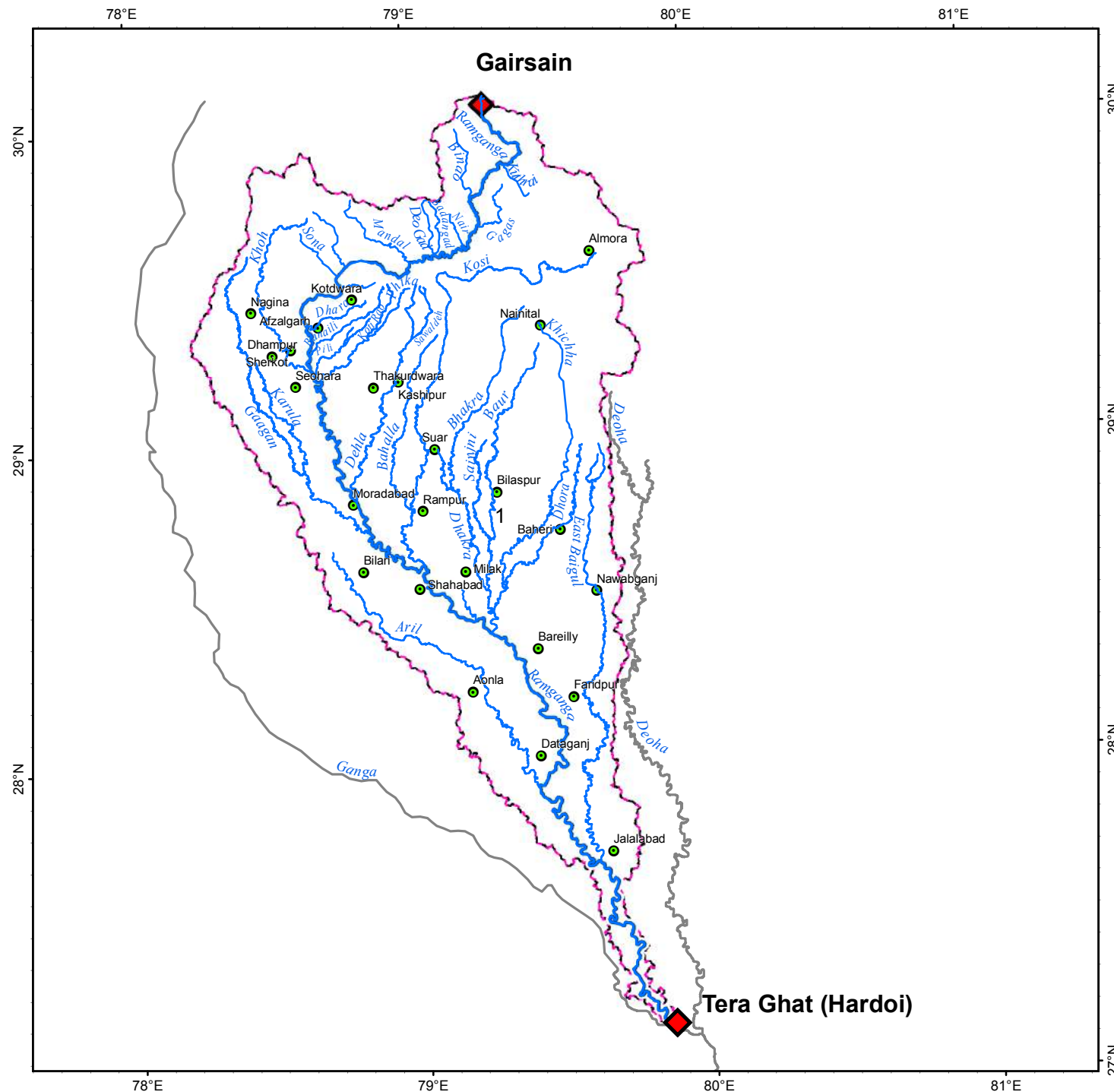
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Index Map Ramganga River Basin

Legend

- Major Cities
- Ramganga Origin & Confluence Location

River

- Ramganga River
- Major Tributaries
- Outside Ramganga Basin

Boundaries

- Ramganga Basin

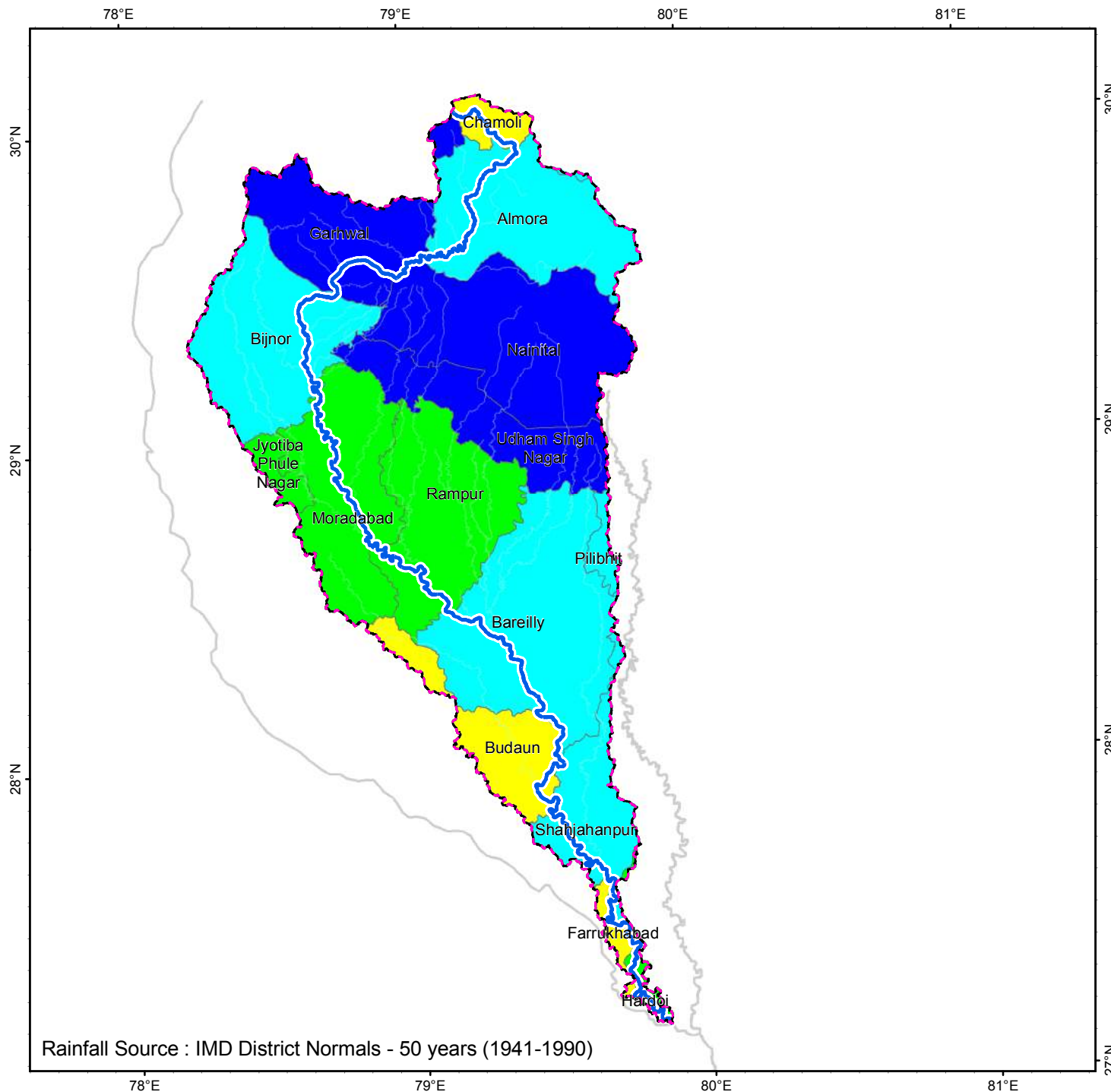
0 25 50 75 100 Km

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SCALE: 1:2,000,000	DATE: January, 2014
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Rainfall Distribution Ramganga River Basin

Legend

Rivers

- Ramganga
- Major Tributaries
- Outside Ramganga Basin

District Rainfall (mm)

- < 800
- 900
- 1000
- 1200
- > 1200

Boundaries

- Ramganga Basin



0 25 50 75 100 Km

Analysis of Stretch of River Ramganga
from Gairsain, Uttarakhand to Haridwar,
Uttar Pradesh for Homogeneous Zoning

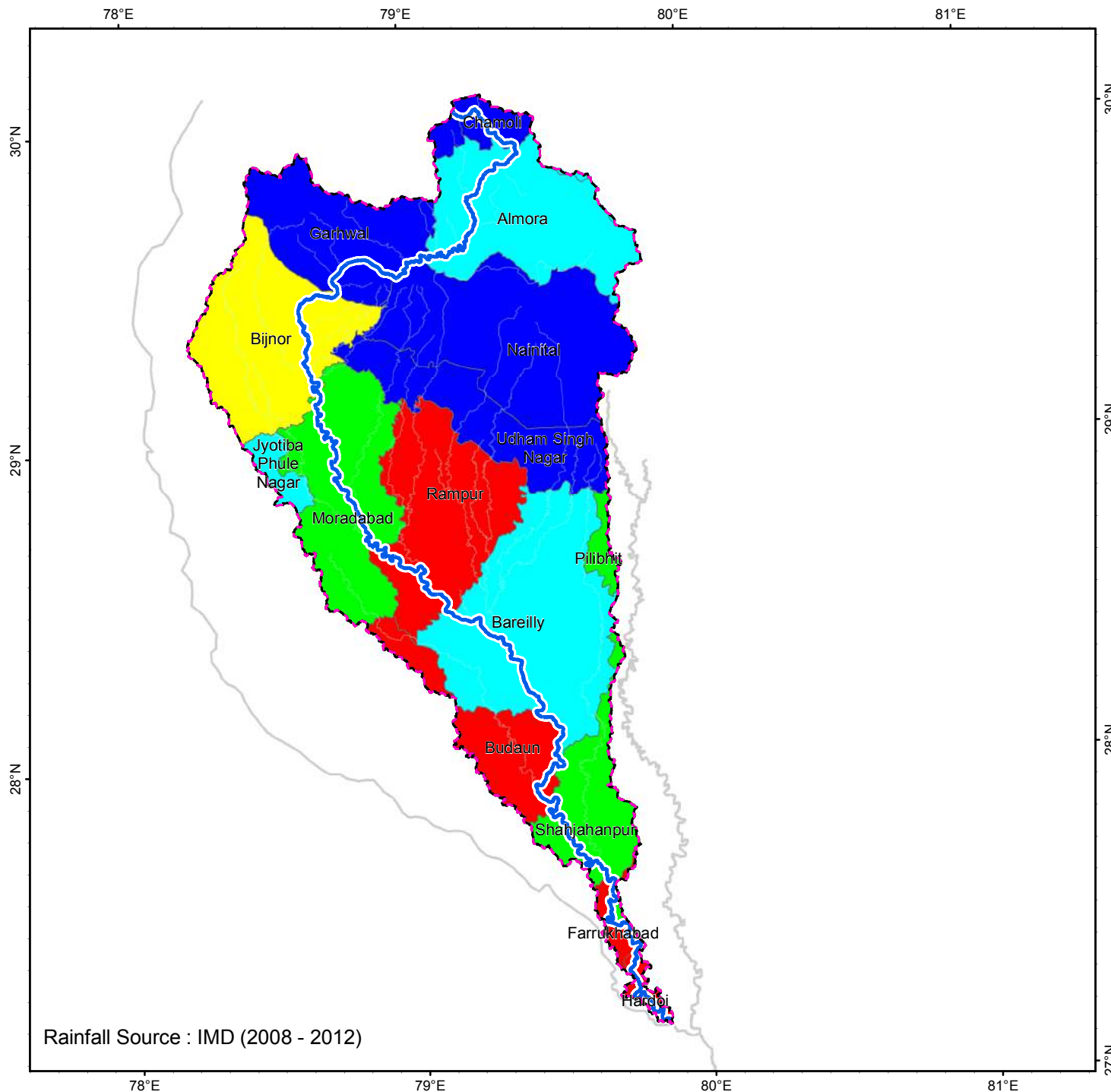
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SCALE: 1:2,000,000

DATE: January, 2014

Rainfall Source : IMD District Normals - 50 years (1941-1990)



Rainfall Distribution Ramganga River Basin

Legend

Rivers

- Ramganga
- Major Tributaries
- Outside Ramganga Basin

District Rainfall (mm)

- < 800
- 900
- 1000
- 1200
- > 1200

Boundaries

- Ramganga Basin



0 25 50 75 100
Km

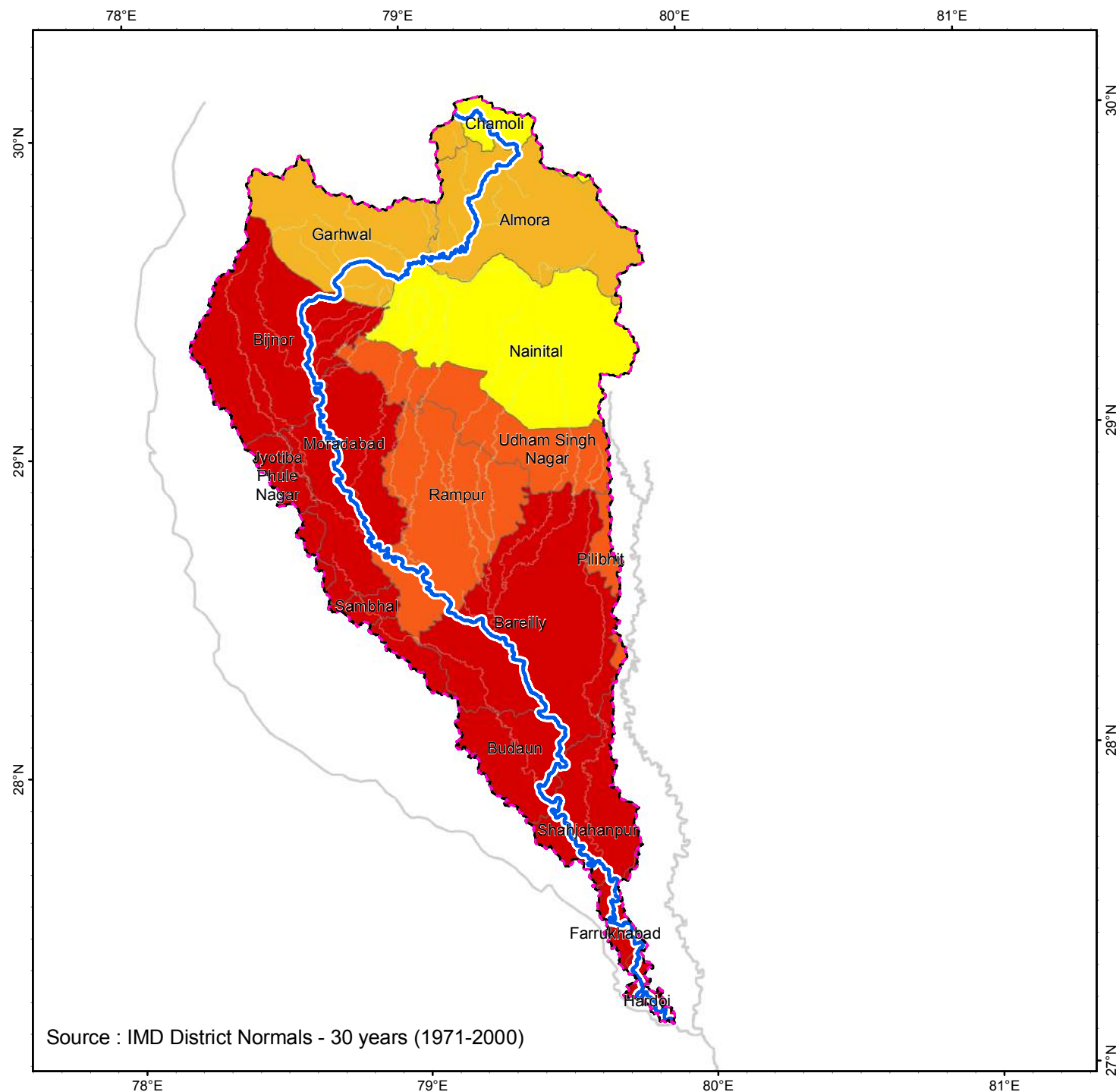
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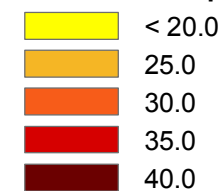
DATE: January, 2014



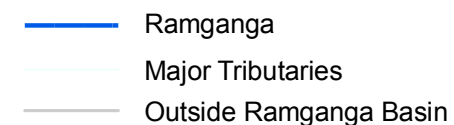
Variation in Maximum Temperature Ramganga River Basin

Legend

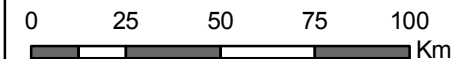
Maximum Temperature (°C)



Rivers



Boundaries



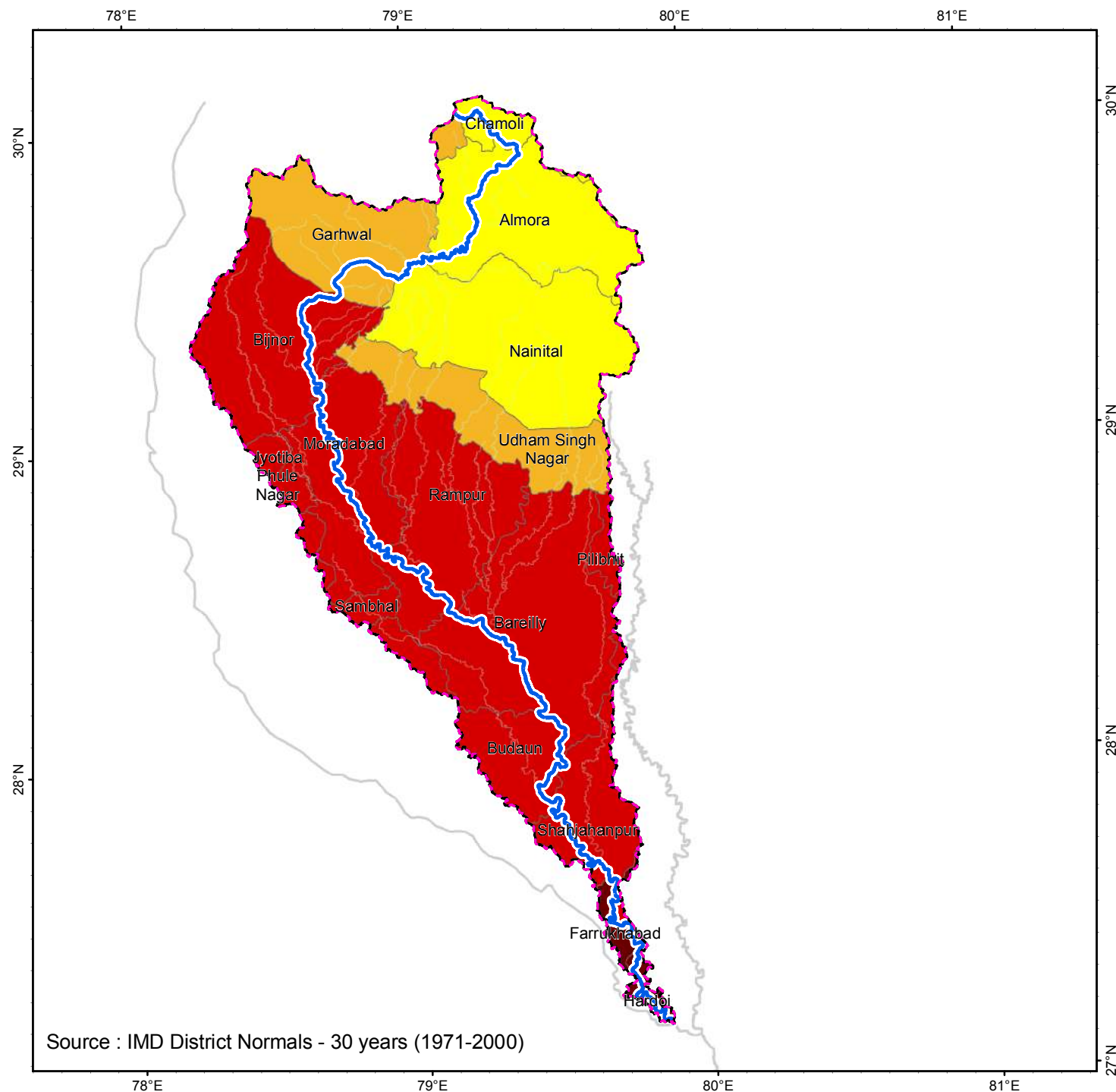
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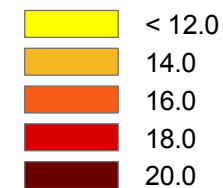
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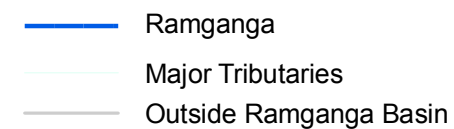
Variation in Minimum Temperature Ramganga River Basin

Legend

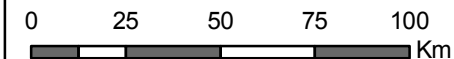
Minimum Temperature (°C)



Rivers



Boundaries



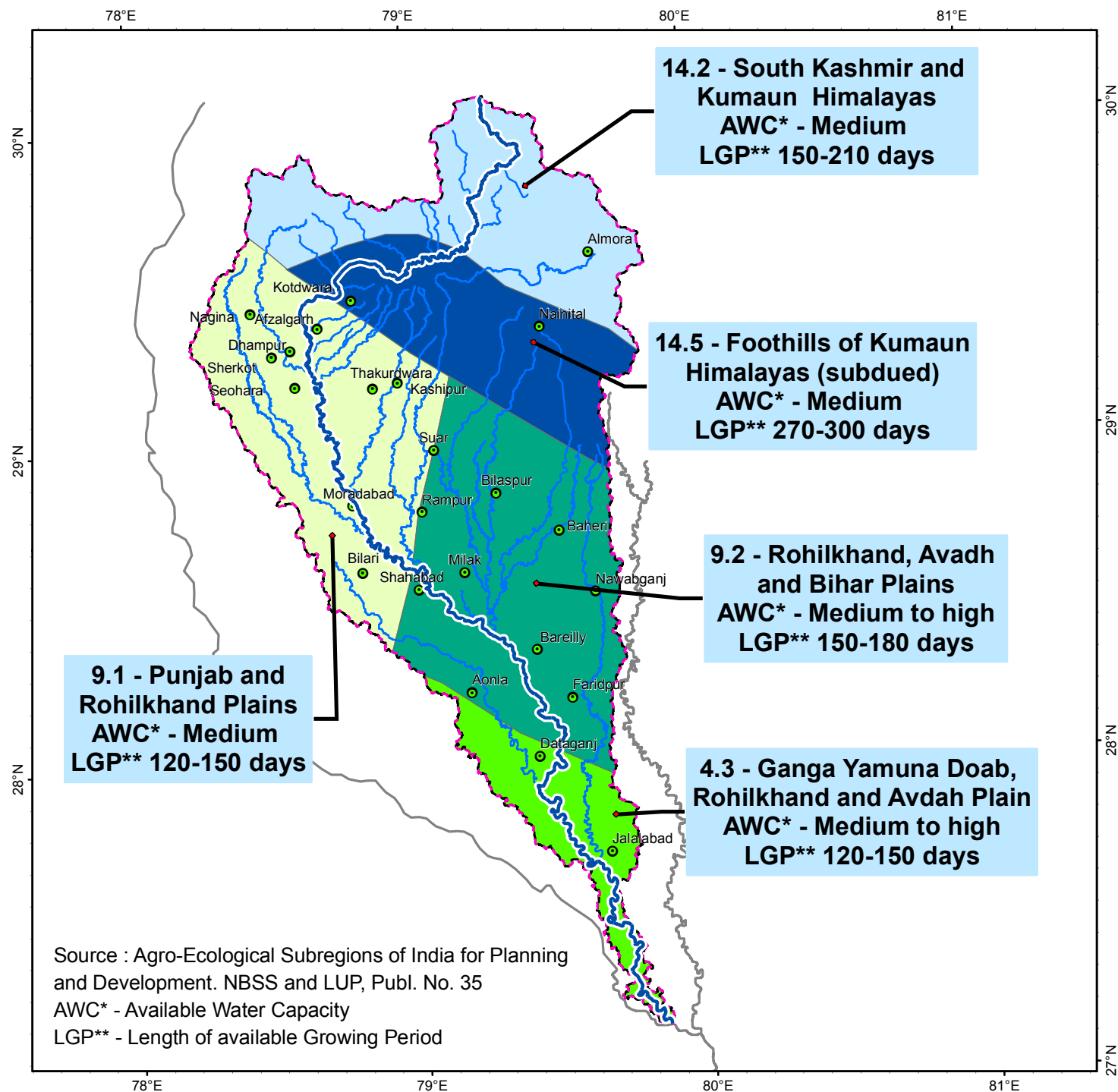
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Agro-ecological Sub Zones for Ramganga River Basin

Legend

● Major Cities

Rivers

— Ramganga River

— Major Tributaries

— Outside Ramganga Basin

Agro Ecological Sub Regions

14.2

14.5

9.1

9.2

4.3

Boundaries

— Ramganga Basin



0 25 50 75 100
Km

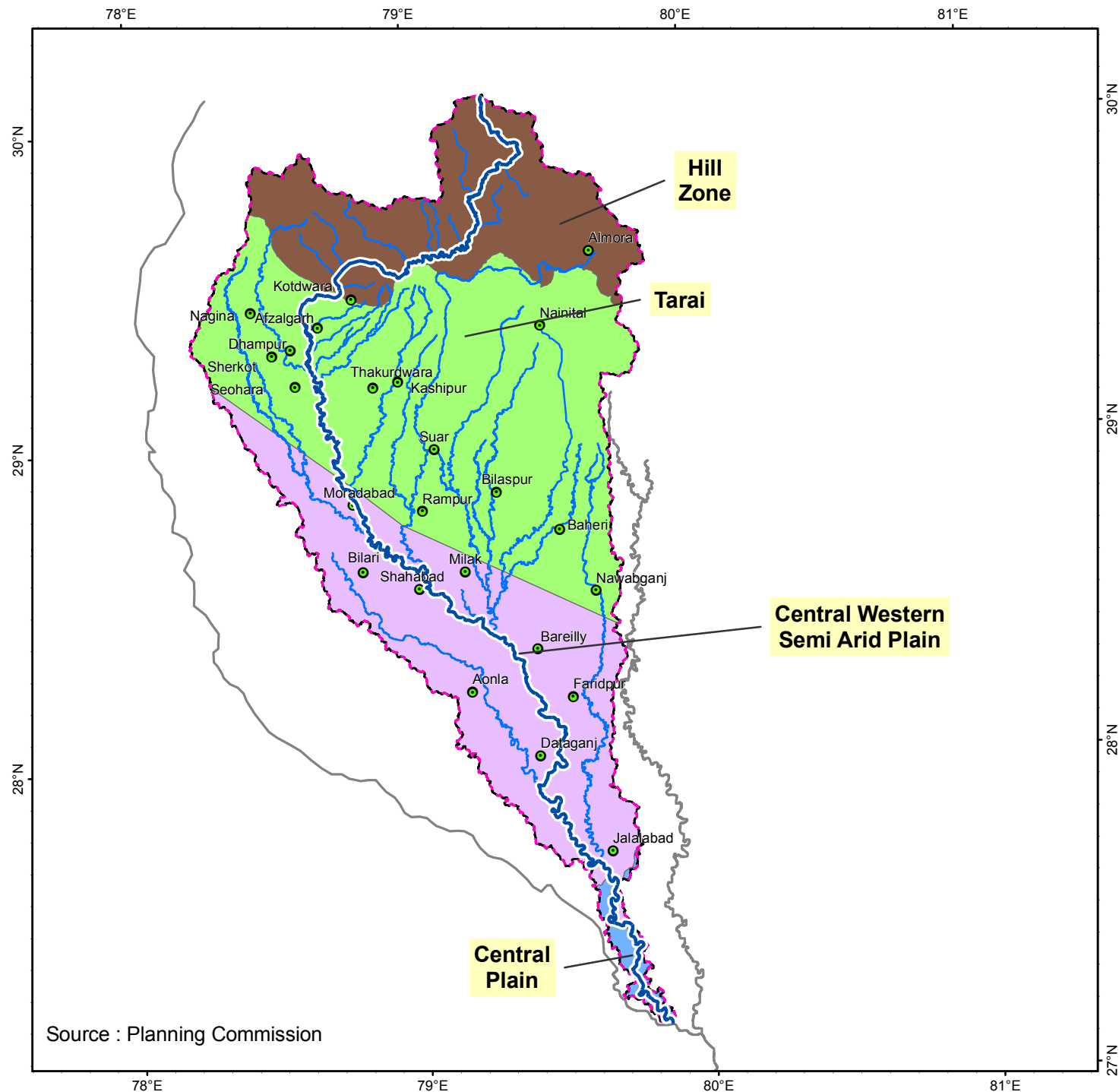
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Source : Planning Commission

Agro-Climatic Zones for Ramganga River Basin

Legend

● Major Cities

Rivers

— Ramganga River

— Major Tributaries

— Outside Ramganga Basin

Agro-Climatic Zones

■ Hill Zone

■ Tarai

■ Central Western Semi Arid Plain

■ Central Plain

Boundaries

▬ Ramganga Basin



0 25 50 75 100 Km

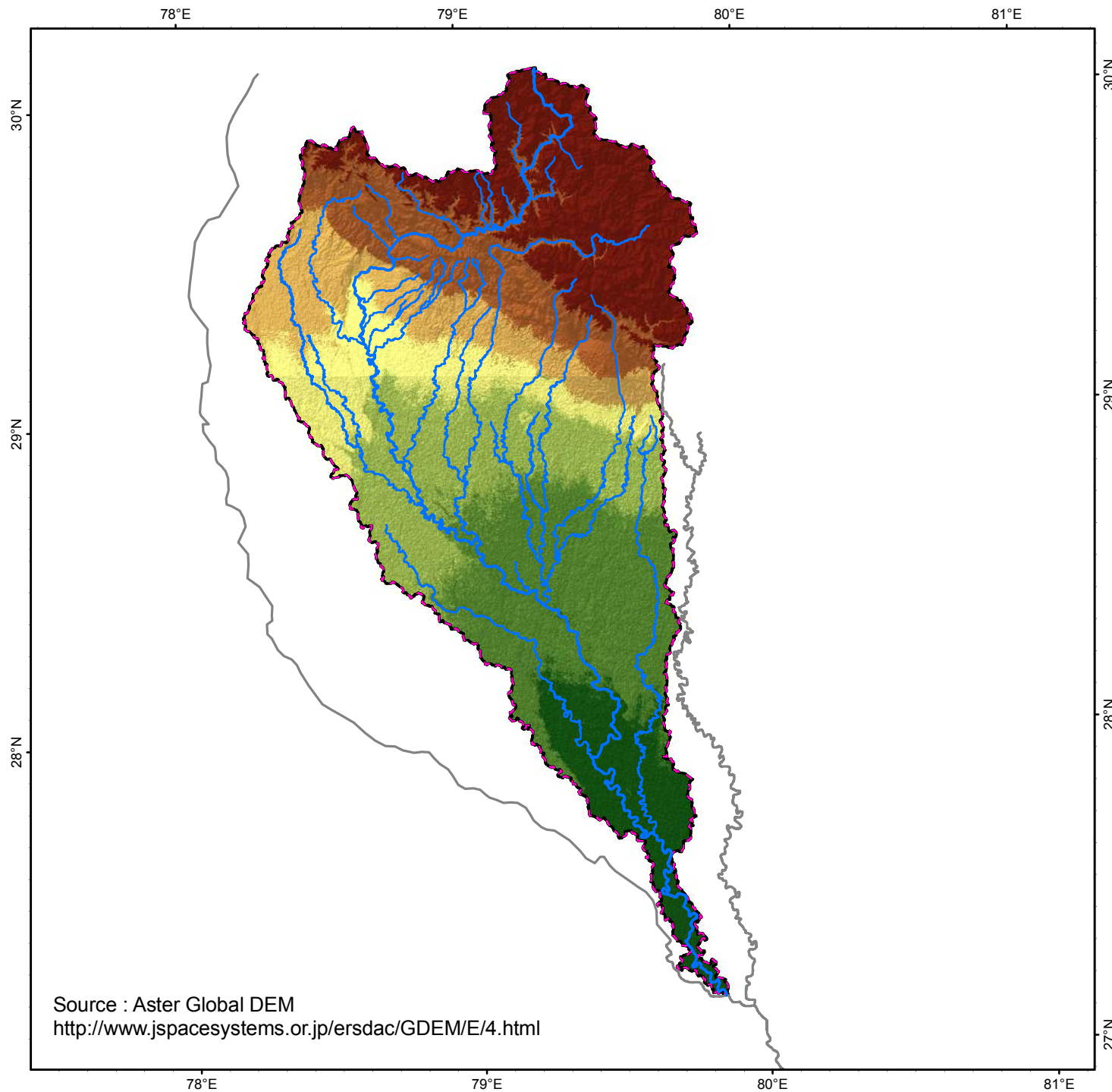
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Digital Elevation Model for Ramganga River Basin

Legend

Rivers

- Ramganga River
- Major Tributaries
- Outside Ramganga Basin
- Ramganga Basin

Elevation (m)

- < 150
- 175
- 200
- 225
- 300
- 1000
- > 1000



0 25 50 75 100 Km

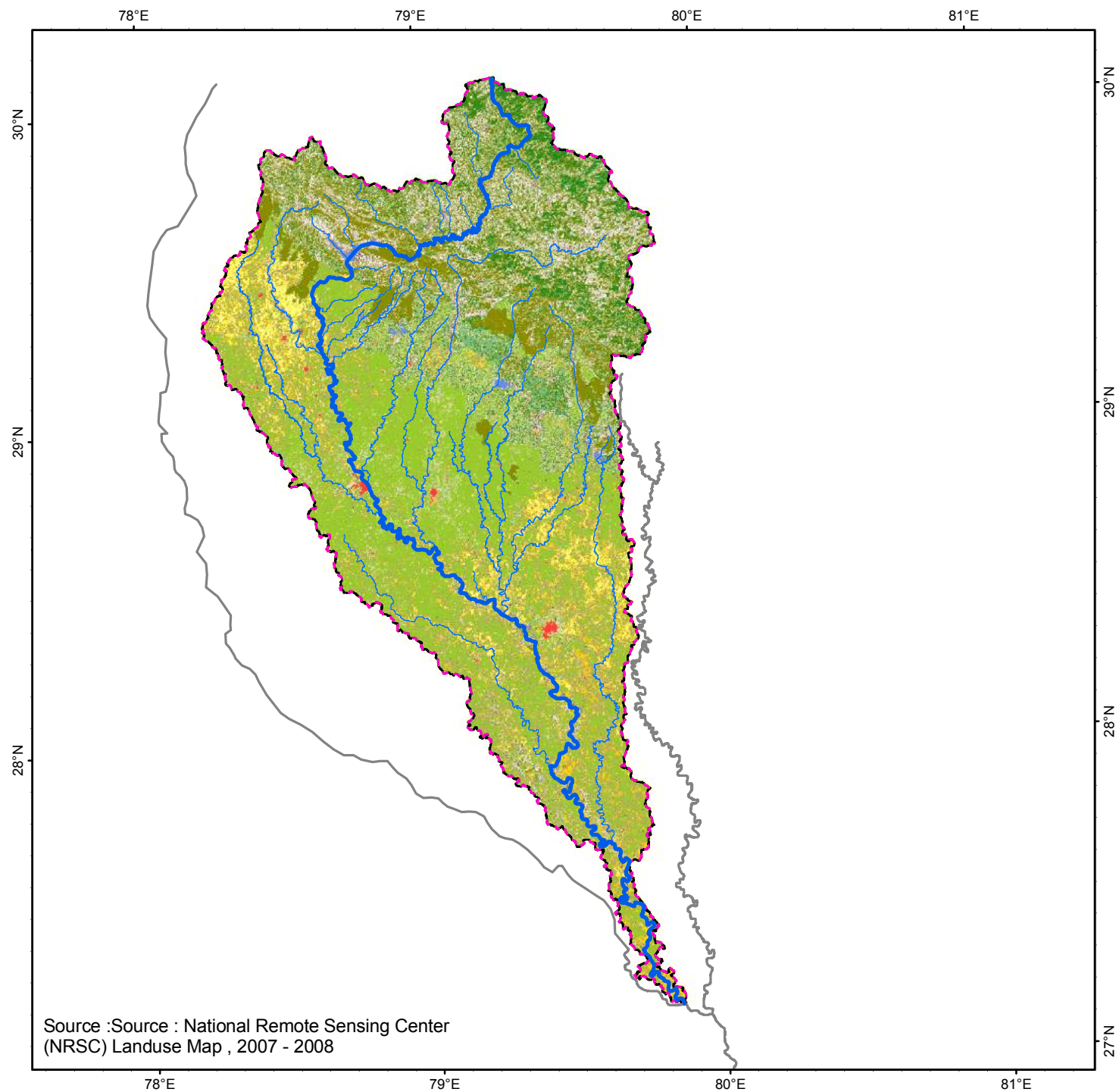
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Landuse Map Ramganga River Basin

Legend

Rivers

- Ramganga River
- Major Tributaries
- Outside Ramganga Basin
- - - Ramganga Basin

Landuse

- Built up
- Kharif only
- Rabi only
- Zaid only
- Double / Tripple Cropping
- Current Fallow
- Plantation/Orchard
- Evergreen Forest
- Deciduous Forest
- Scrub / Degraded Forest
- Grassland
- Other Wasteland
- Gullied
- Scrubland
- Water Bodies
- Snow Covered



0 25 50 75 100
Km

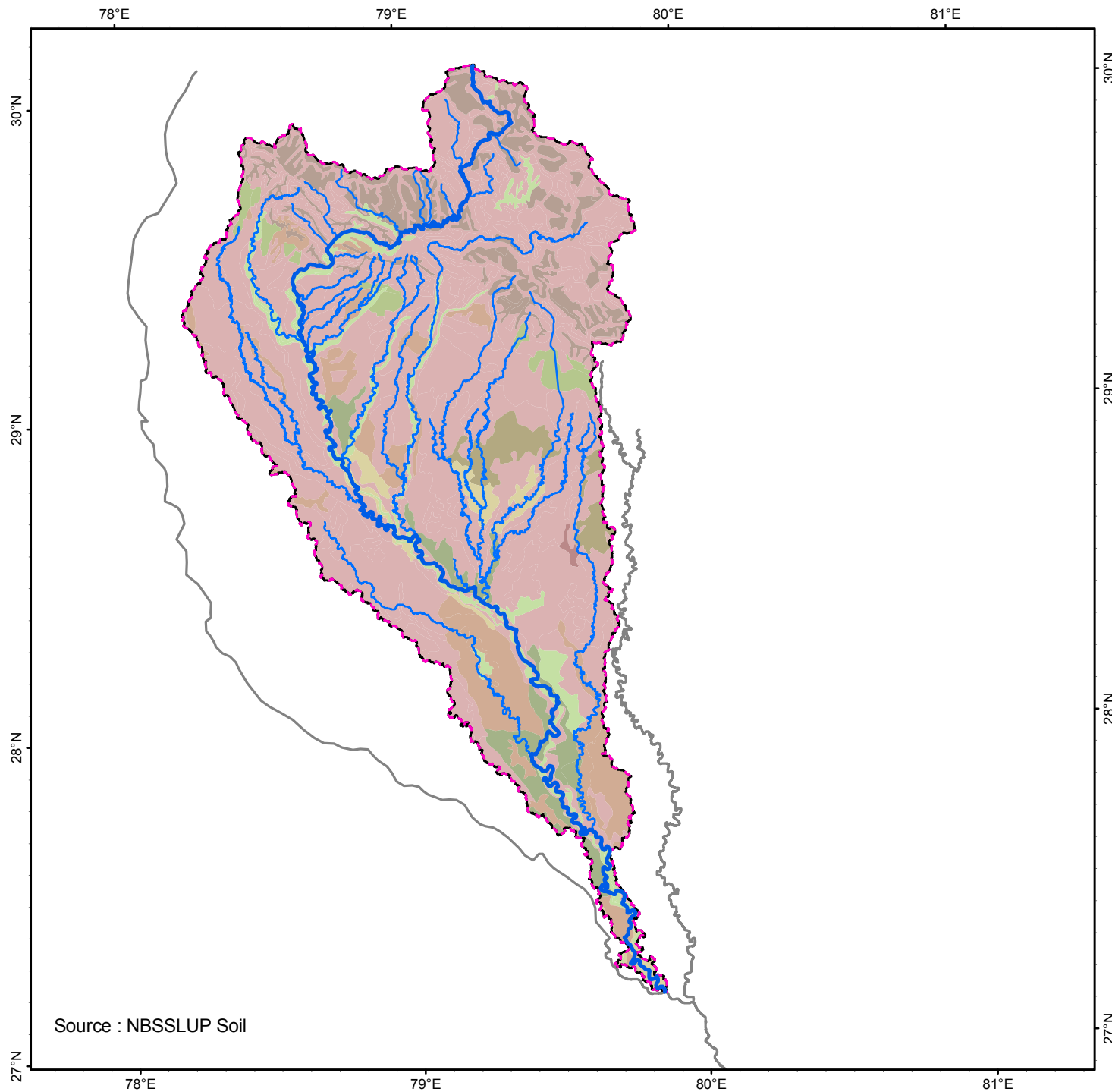
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Soil Map Ramganga River Basin

Legend

Soil Texture

- Calcareous Soils
- Loamy Calcareous Soils
- Loamy Skeletal soils
- Loamy Soils
- Loamy Fragmental Soils
- Loamy Sandy Calcareous Soils
- Other Soils
- Sandy Skeletal Soils
- Silty Calcareous Soils
- Silty Soils

Rivers

- Ramganga River
- Major Tributaries
- Outside Ramganga Basin
- Ramganga Basin



0 25 50 75 100 Km

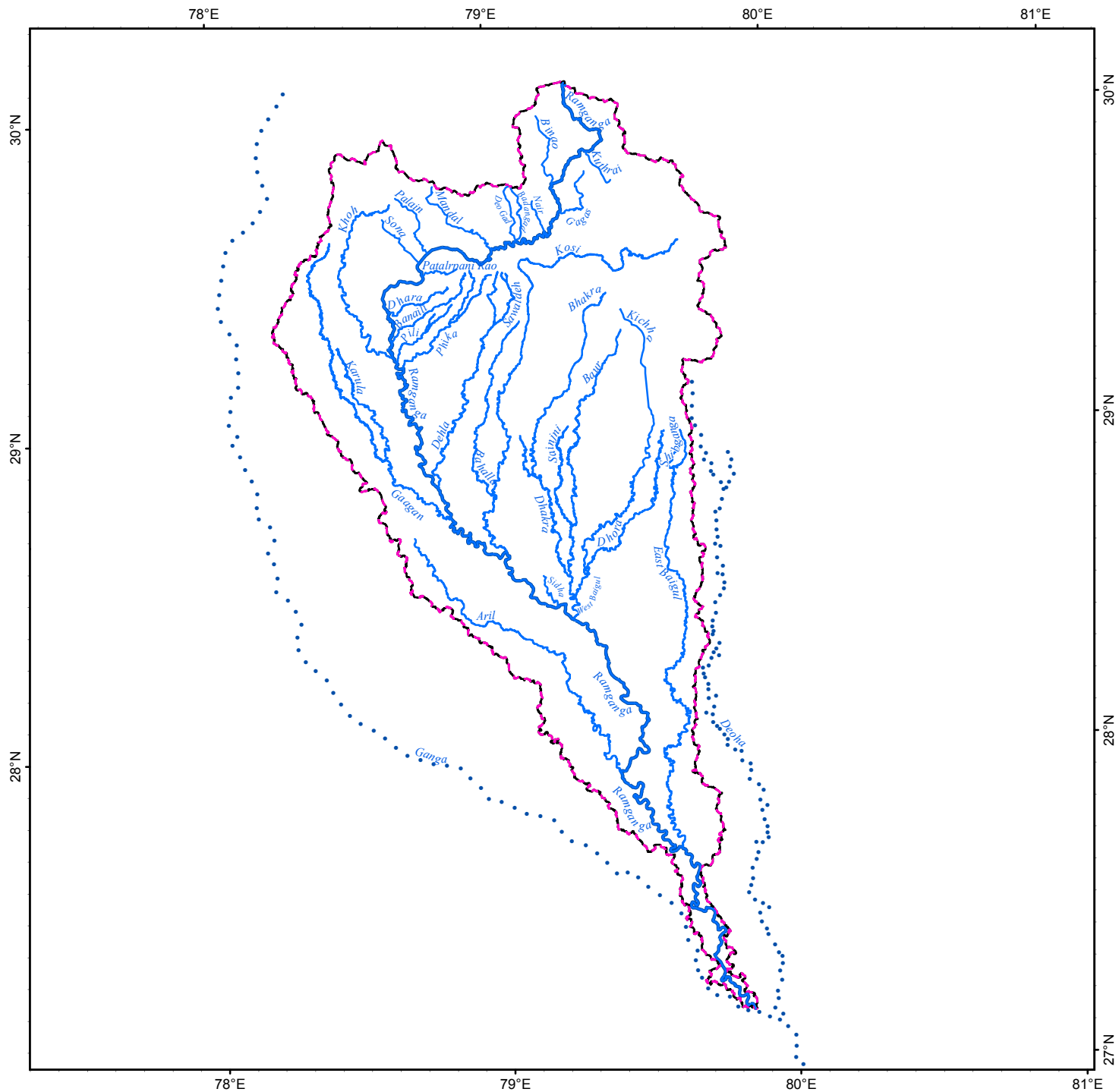
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Major Tributaries Ramganga River Basin

Legend

Rivers

- Ramganga River
- Major Tributaries
- Outside Ramganga Basin

Boundaries

- Ramganga Basin



0 25 50 75 100 Km

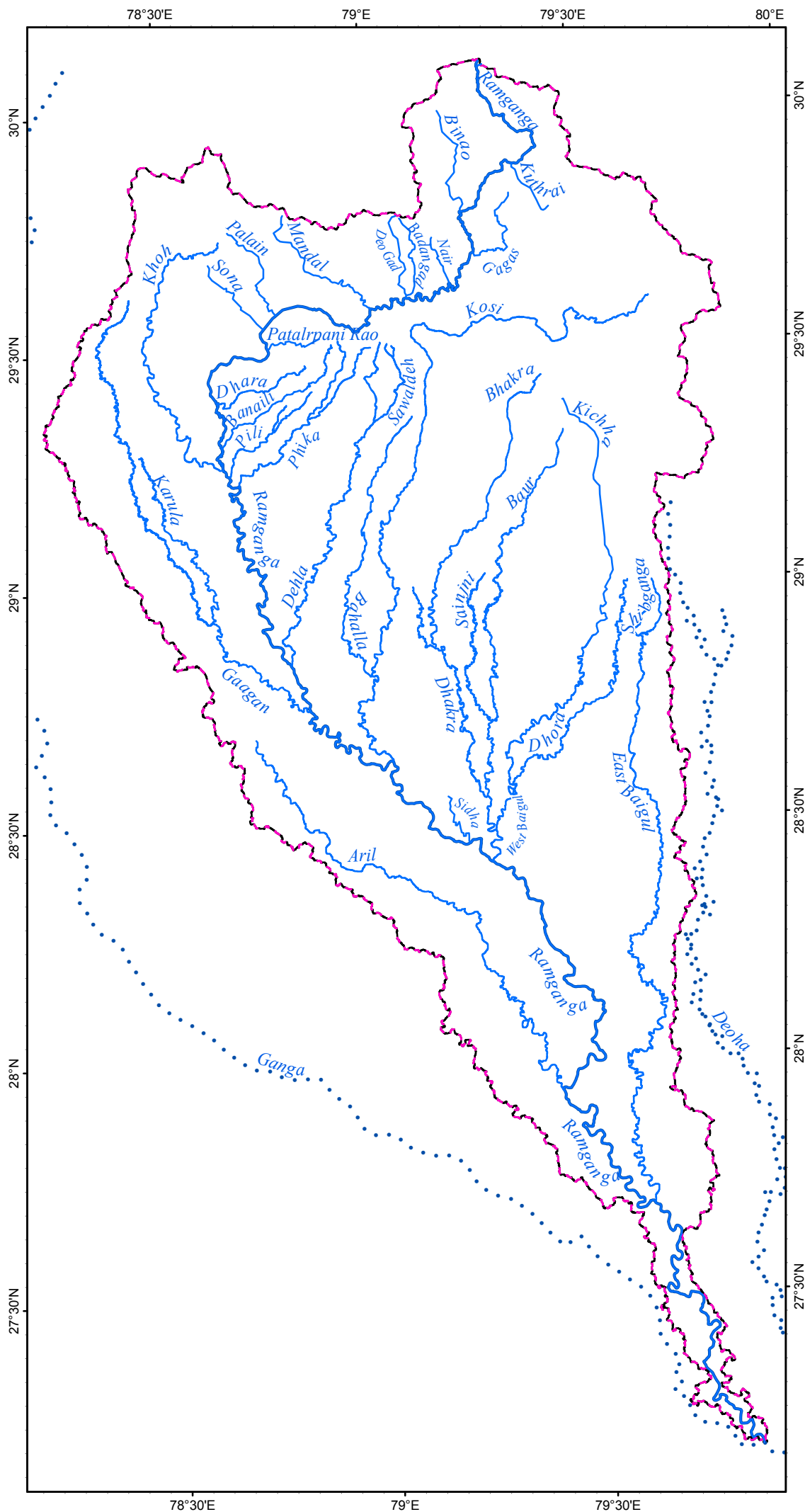
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Major Tributaries Ramganga River Basin

Legend

Rivers

- Ramganga River
- Major Tributaries
- Outside Ramganga Basin

Boundaries

- Ramganga Basin

Tributaries joining on left bank

- Gagas (CA : 512 km²)
- Dhara (CA : 119 km²)
- Banaili (CA : 82 km²)
- Pili (CA : 156 km²)
- Phika (CA : 214 km²)
- Dehla (CA : 650 km²)
- Kosi (CA : 3274 km²)
- West Baigul (CA : 4782 km²)
- East Baigul (CA : 2410 km²)

Tributaries joining on right bank

- Binao (CA : 295 km²)
- Nair (CA : 90 km²)
- Badangad (CA : 215 km²)
- Mandal (CA : 363 km²)
- Palain (CA : 289 km²)
- Sona (CA : 127 km²)
- Khoh (CA : 1042 km²)
- Karula (CA : 330 km²)
- Gaagan (CA : 1942 km²)
- Aril (CA : 2227 km²)



0 20 40 60
Km

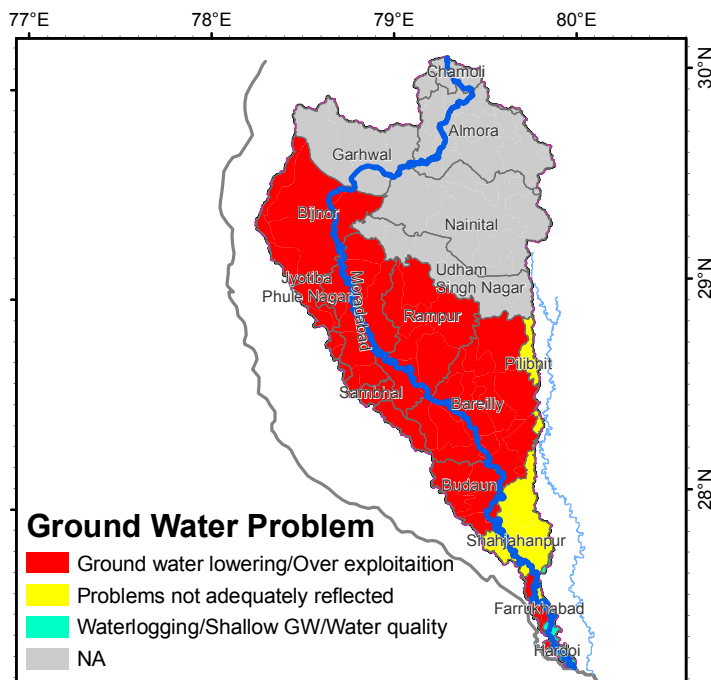
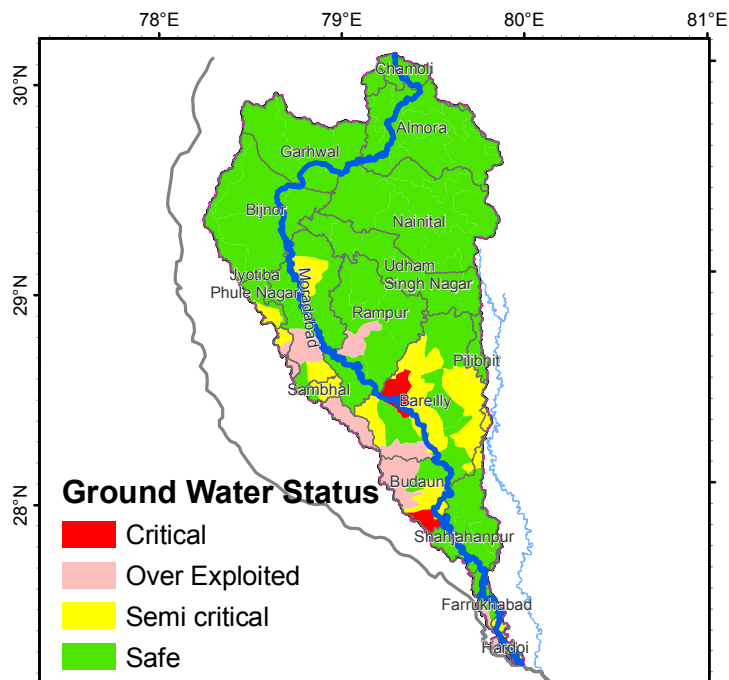
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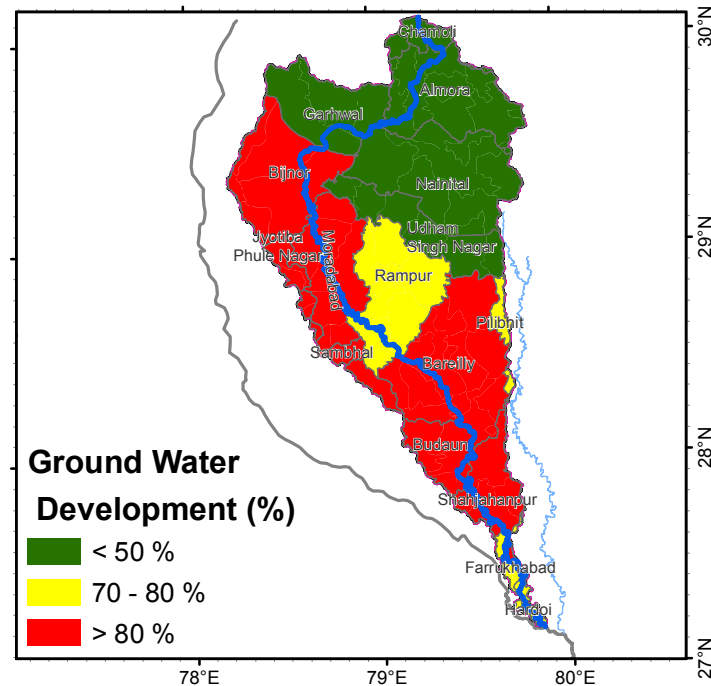
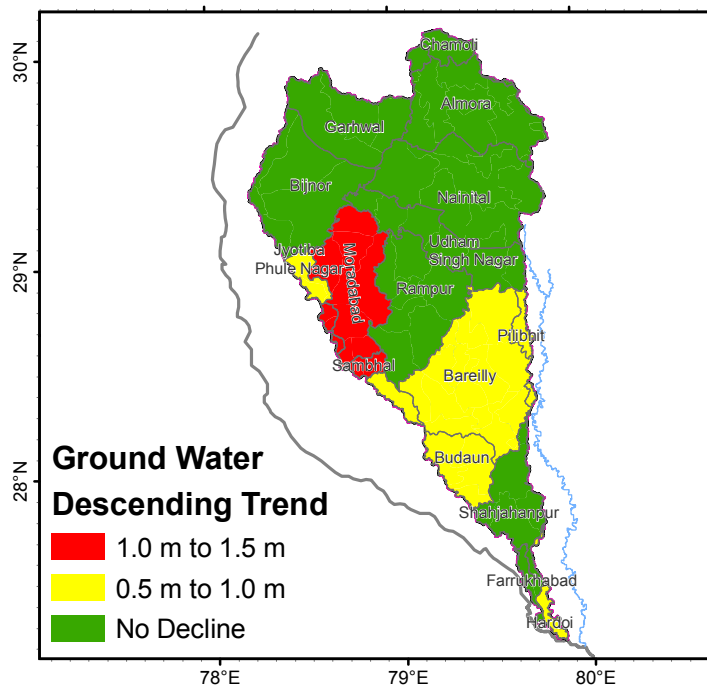
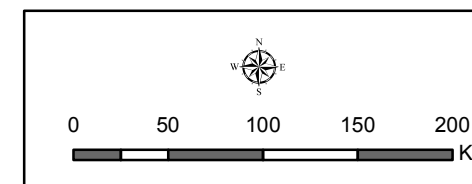
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Ground Water Status Ramganga River Basin

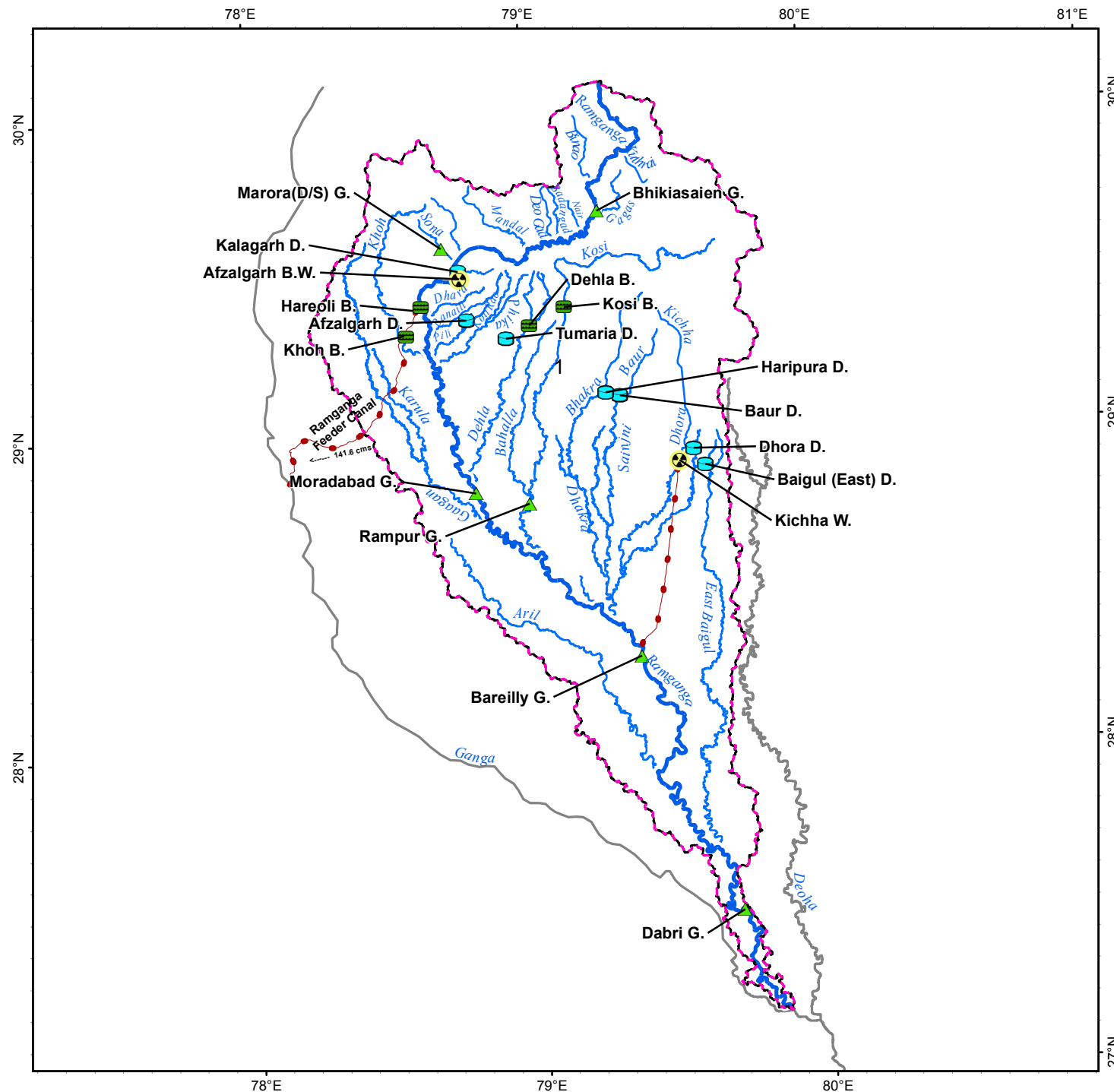


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Major Water Resource Structures Ramganga River Basin

Legend

Water Resource Structures

- Barrage (B)
- Dam (D)
- ▲ Gauge (G)
- ⚡ Weir (W)
- Canals

Rivers

- Ramganga River
- Major Tributaries
- Outside Ramganga Basin

Boundaries

- Ramganga Basin



0 25 50 75 100
Km

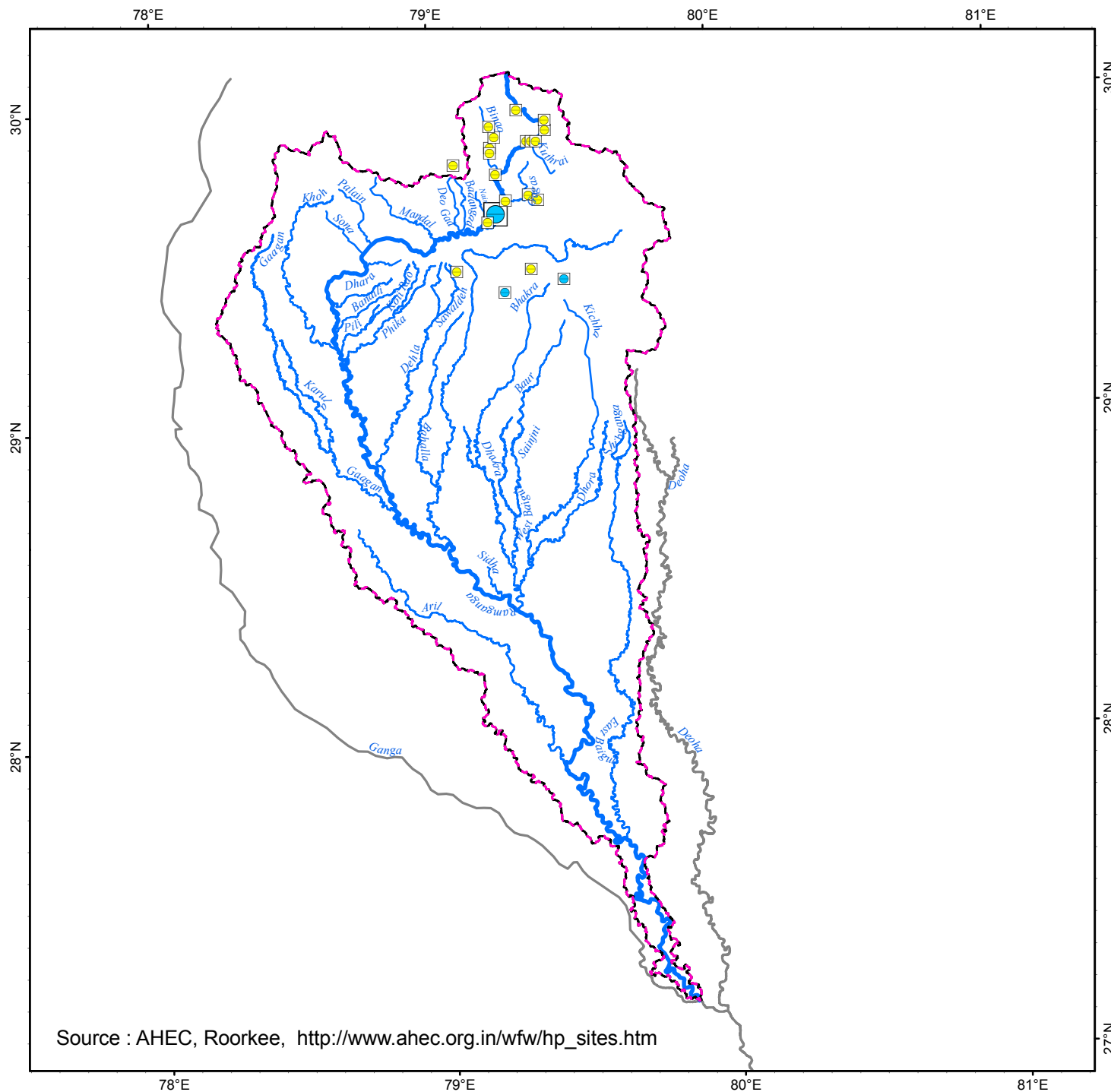
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Hydro Electric Power Projects Ramganga River Basin

Legend

Hydro Electric Power Projects Project Status

- In Operation Major
- In Operation Minor
- Unalotted

Rivers

- Ramganga River
- Major Tributaries
- Outside Ramganga Basin

Boundaries

- Ramganga Basin



0 25 50 75 100
Km

Analysis of Stretch of River Ramganga
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Uttar Pradesh for Homogeneous Zoning

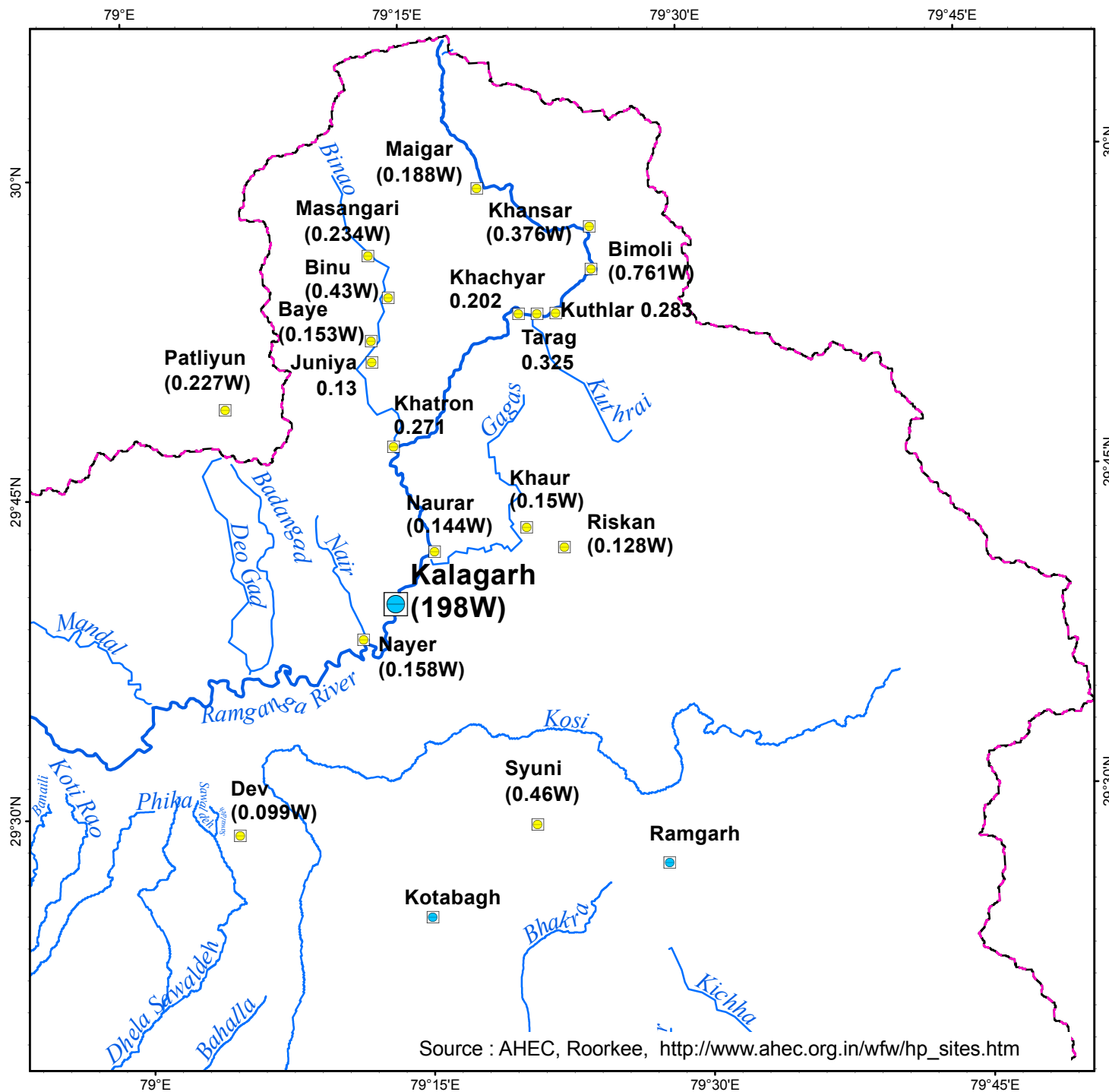
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DATE: January, 2014

Source : AHEC, Roorkee, http://www.ahec.org.in/wfw/hp_sites.htm



Hydro Electric Power Projects Ramganga River Basin

Legend

Hydro Electric Power Projects Project Status

- In Operation Major
- In Operation Minor
- Unalotted

Rivers

- Ramganga River
- Major Tributaries
- Outside Ramganga Basin

Boundaries

- Ramganga Basin



0 5 10 15 20 25 Km

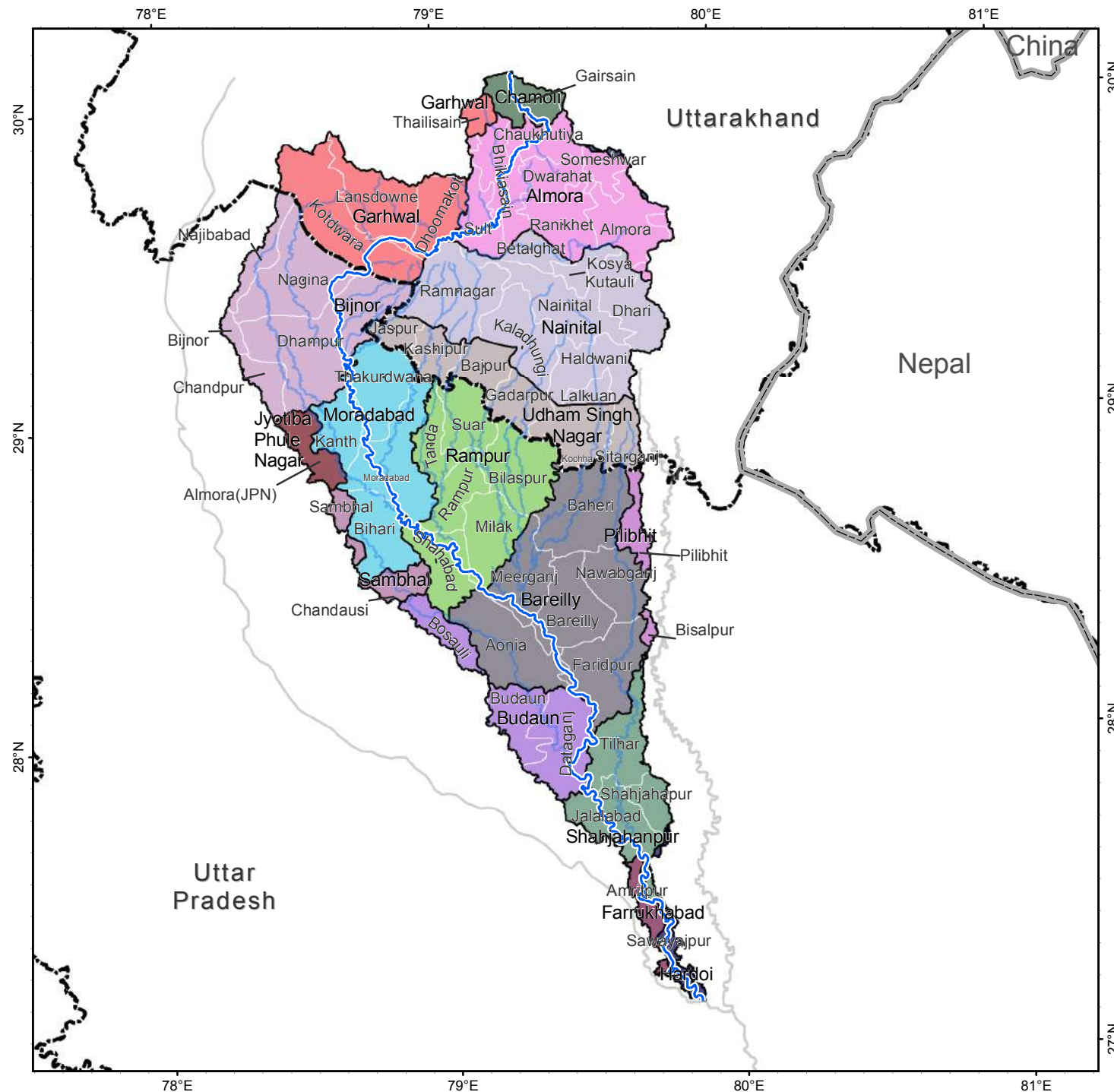
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Administrative Map Ramganga River Basin

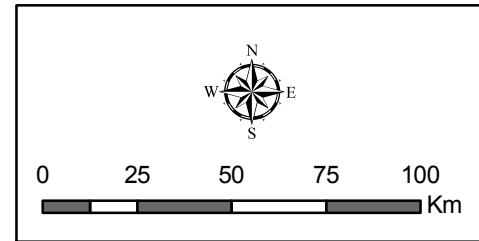
Legend

Rivers

- Ramganga River
- Major Tributaries
- Outside Ramganga Basin

Administrative Boundaries

- Block
- District
- State
- Country

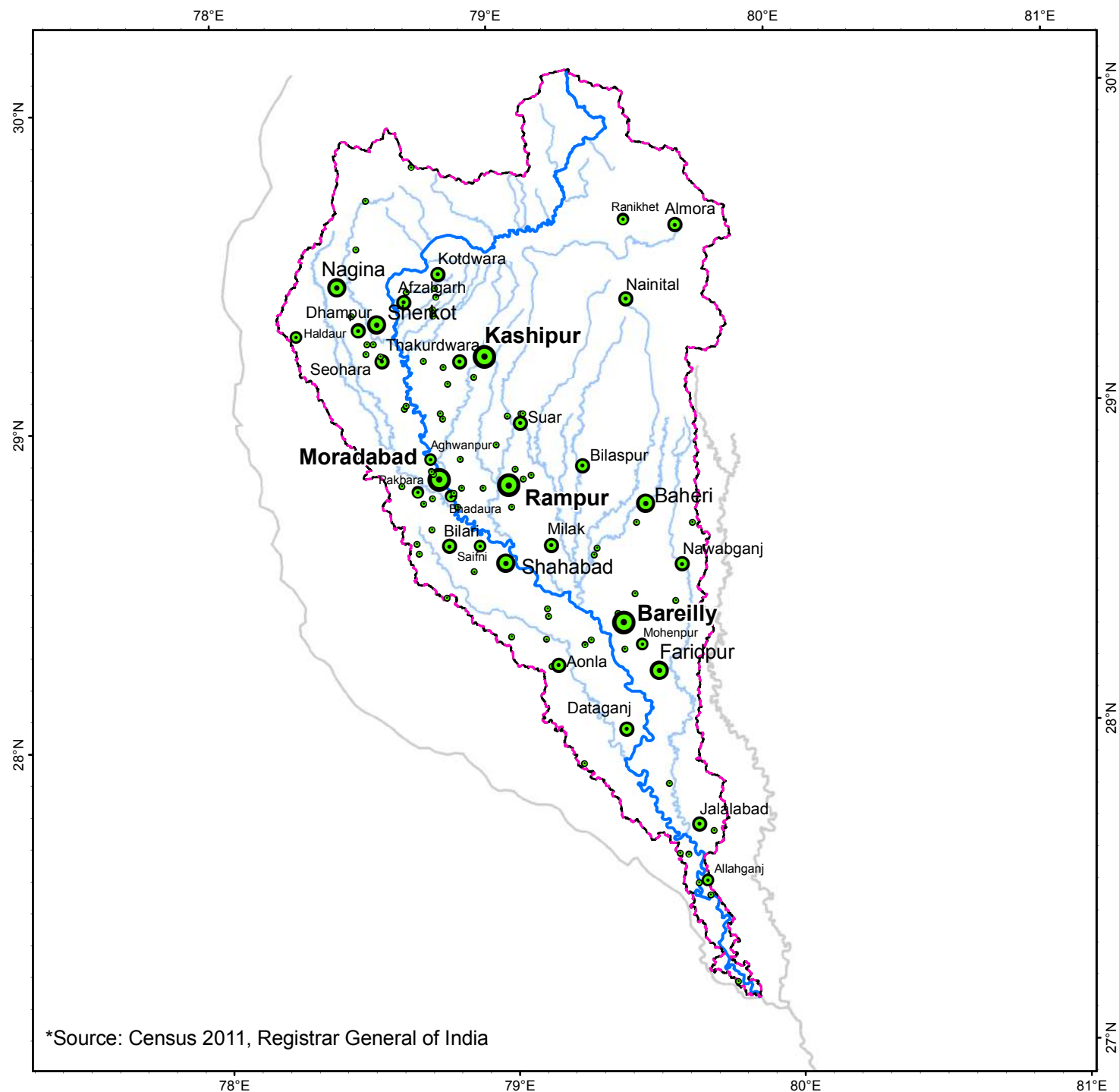


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Cities and Towns Ramganga River Basin

Legend

City Class *

-  Class - I ($\leq 100,000$)
-  Class - II (50,000 to 99,999)
-  Class - III (20,000 to 49,999)
-  Class - IV (10,000 to 19,999)
-  Class - V (5,000 to 9,999)

Rivers

-  Ramganga River
-  Major Tributaries
-  Outside Ramganga Basin

Boundaries

-  Ramganga Basin



0 25 50 75 100
Km

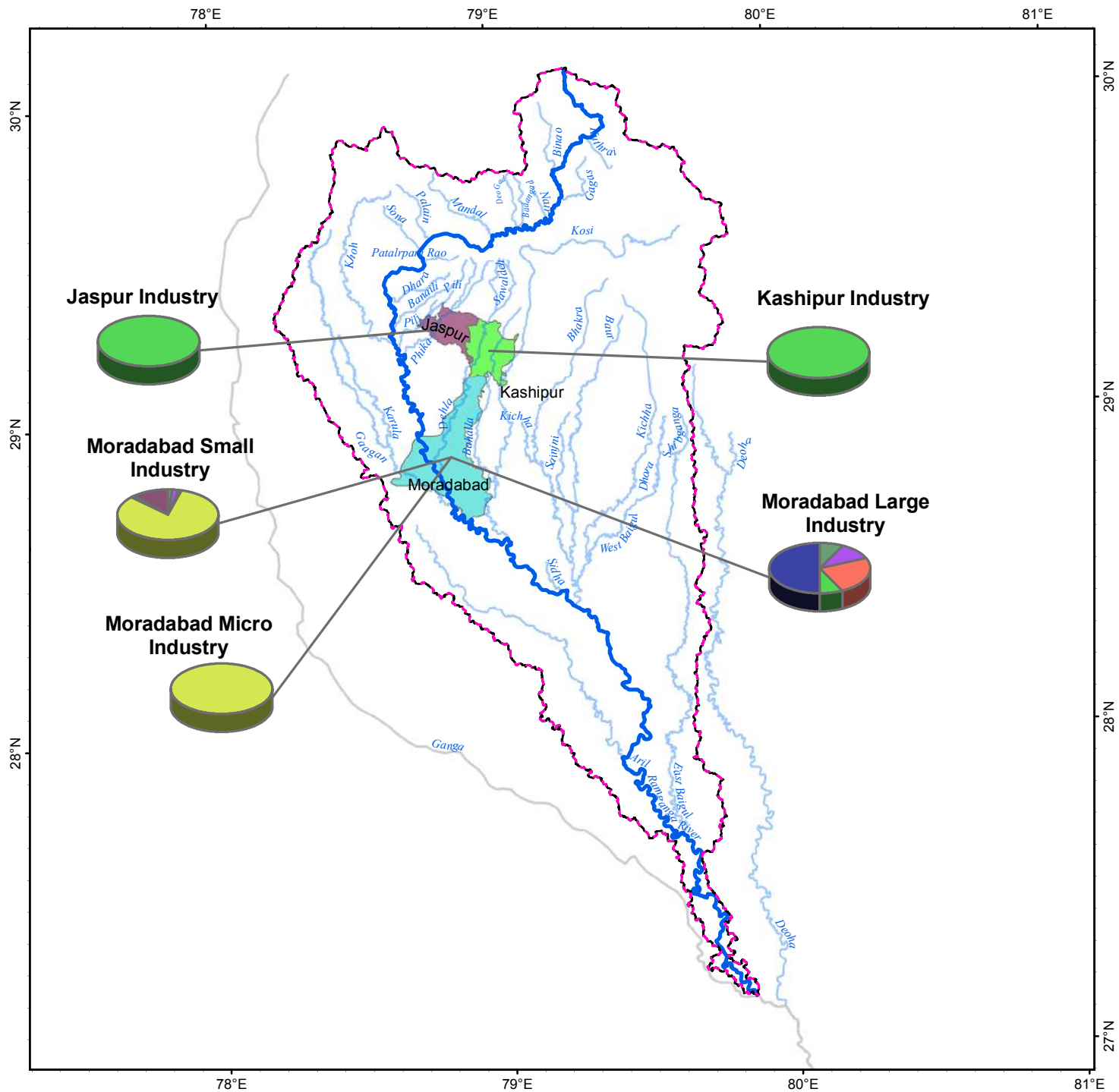
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Industrial Clusters Ramganga River Basin

Legend

Type of Industry



- Chemical and Fertilizer
- Cotton and Textiles
- Food
- Leather
- Metal
- Paper and Pulp
- Plastic
- Sugar and brewery
- Others



0 25 50 75 100
Km

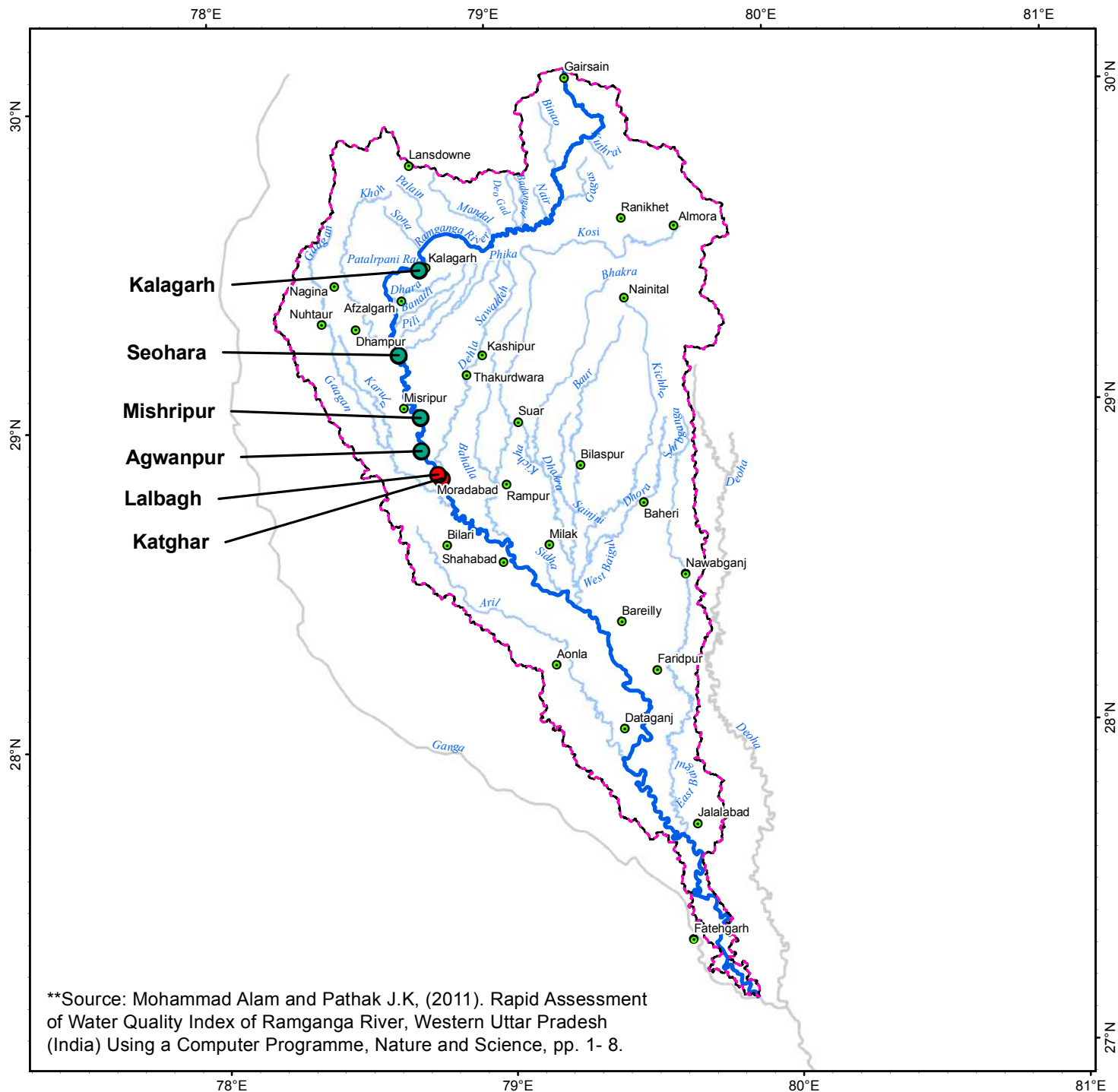
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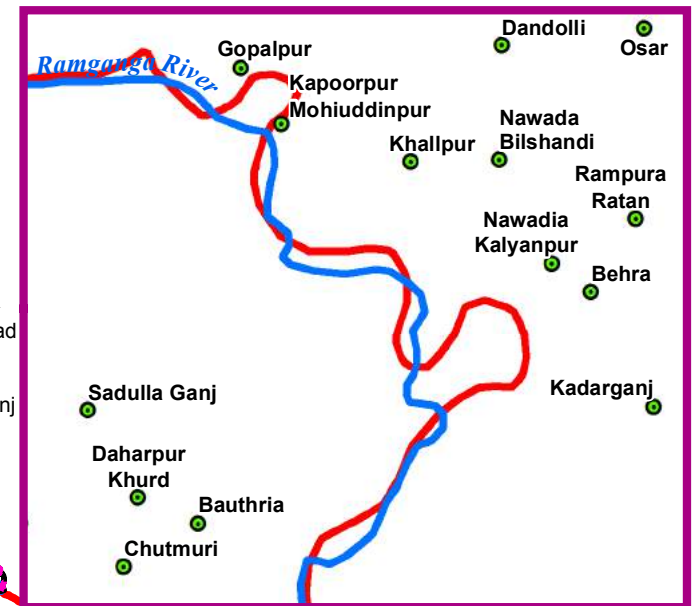
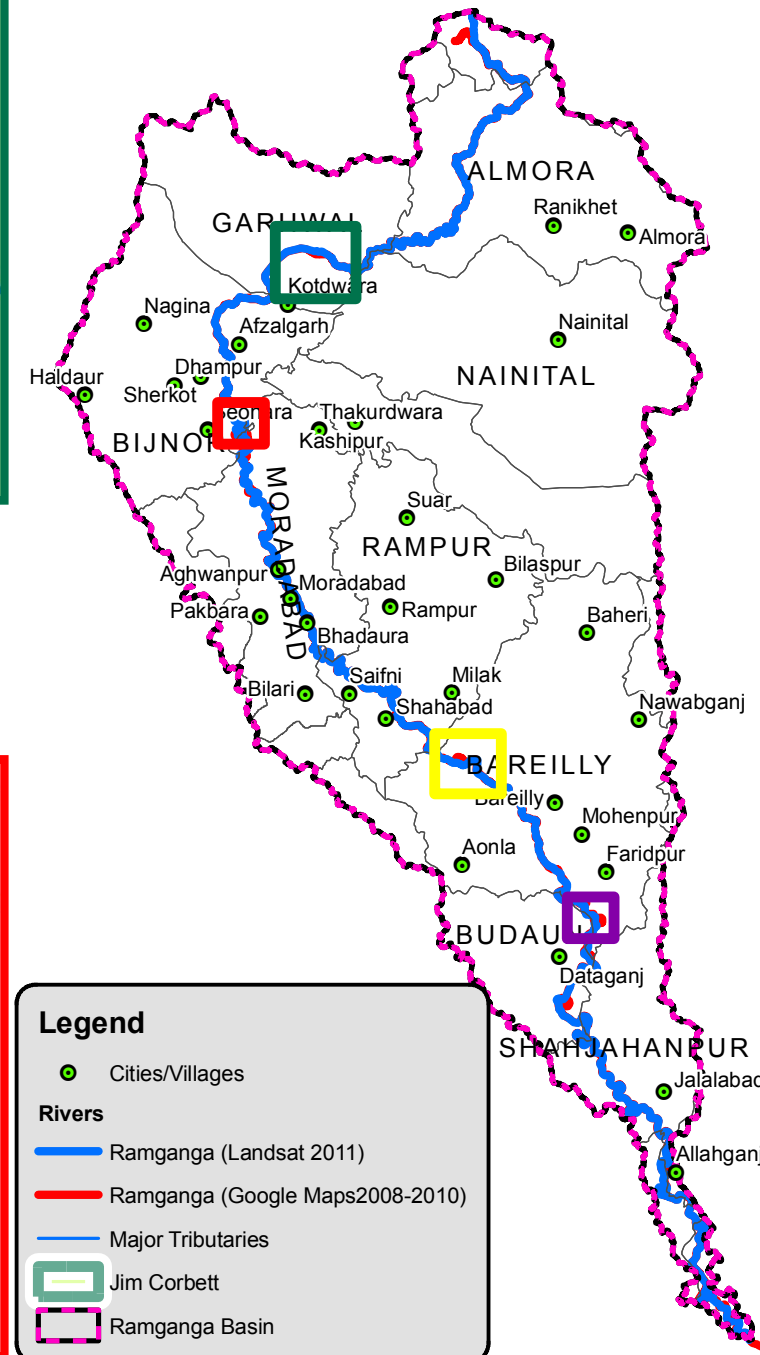
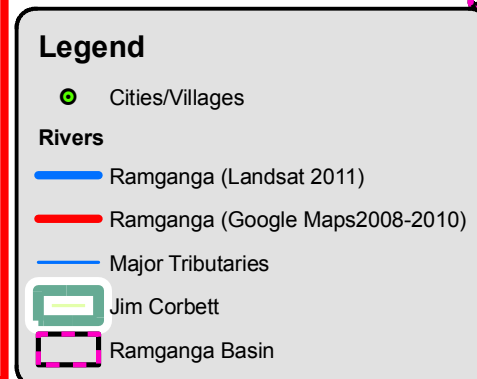
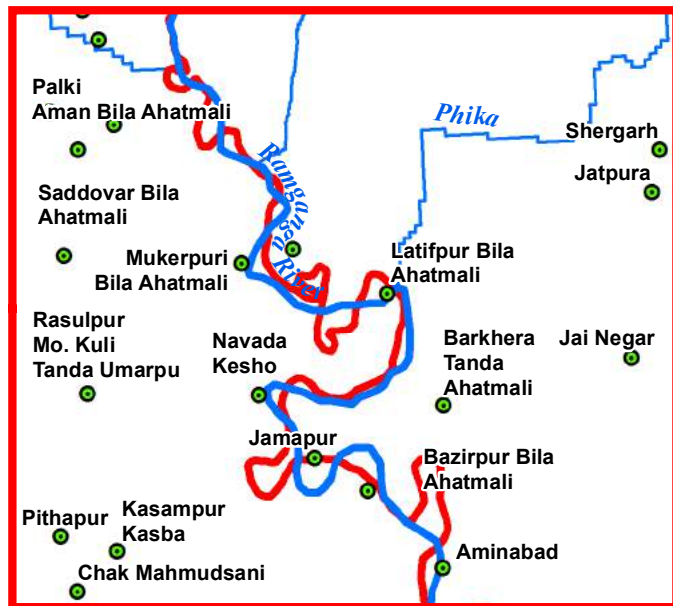
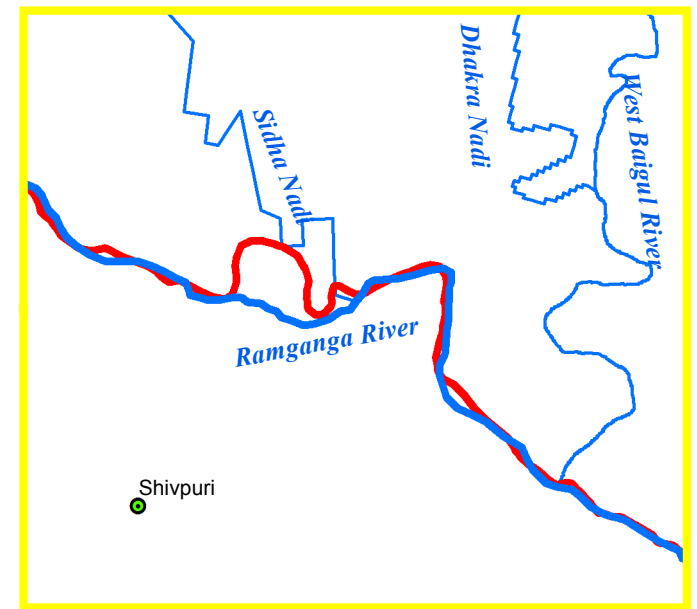
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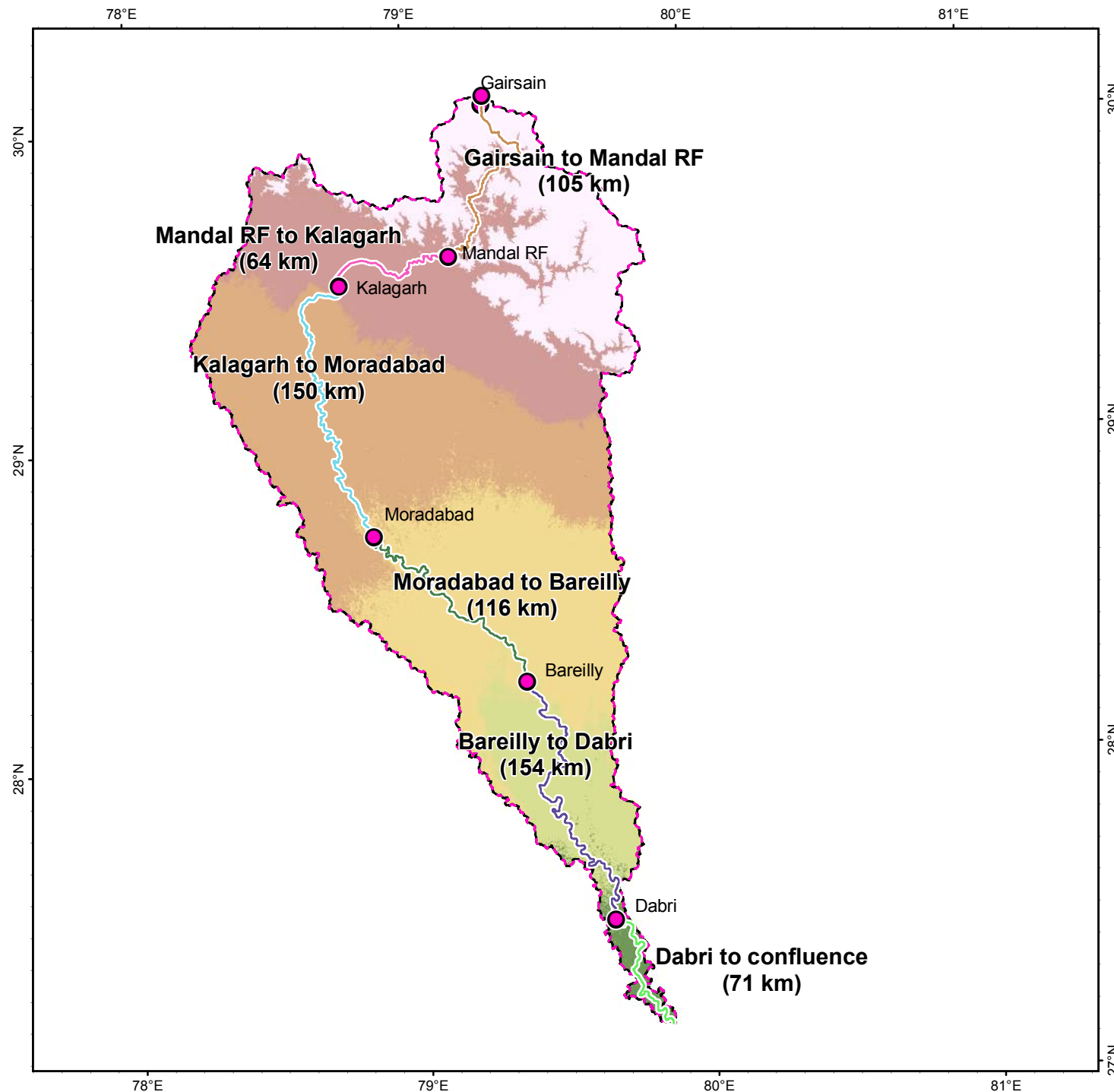
Prepared by: INRM Consultants Pvt. Ltd.

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Longitudinal Zones (based on elevation) Ramganga River Basin

Legend

● Zone Limits

Zone Name

- Gairsain to Mandal RF
- Mandal RF to Kalagarh
- Kalagarh to Moradabad
- Moradabad to Bareilly
- Bareilly to Dabri
- Dabri to confluence

Elevation (m)

- < 135
- 152
- 180
- 250
- 1200
- > 1200

Boundaries

- Ramganga Basin



0 25 50 75 100
Km

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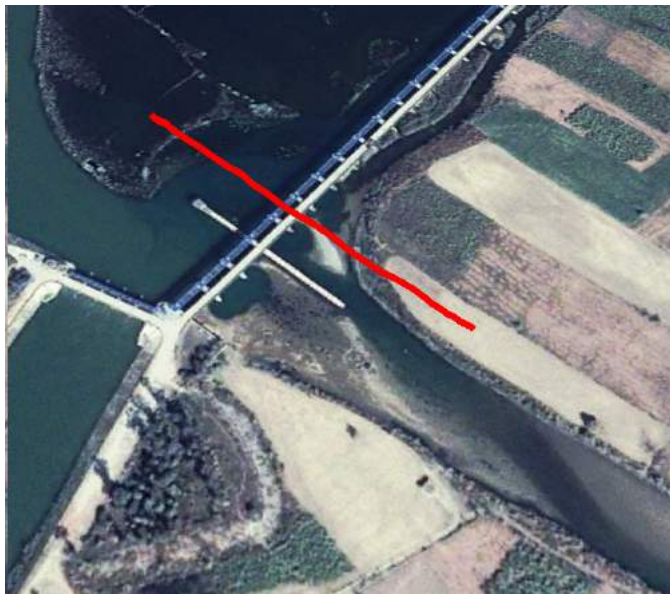
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77°E 78°E 79°E 80°E 81°E

**Zone 1: CS3 - Bhikiasaein
(Bhatroj Khan-Chaukhutia road)**



**Zone 3 : CS6 - Hareoli
Downstream of Hareoli Barrage**

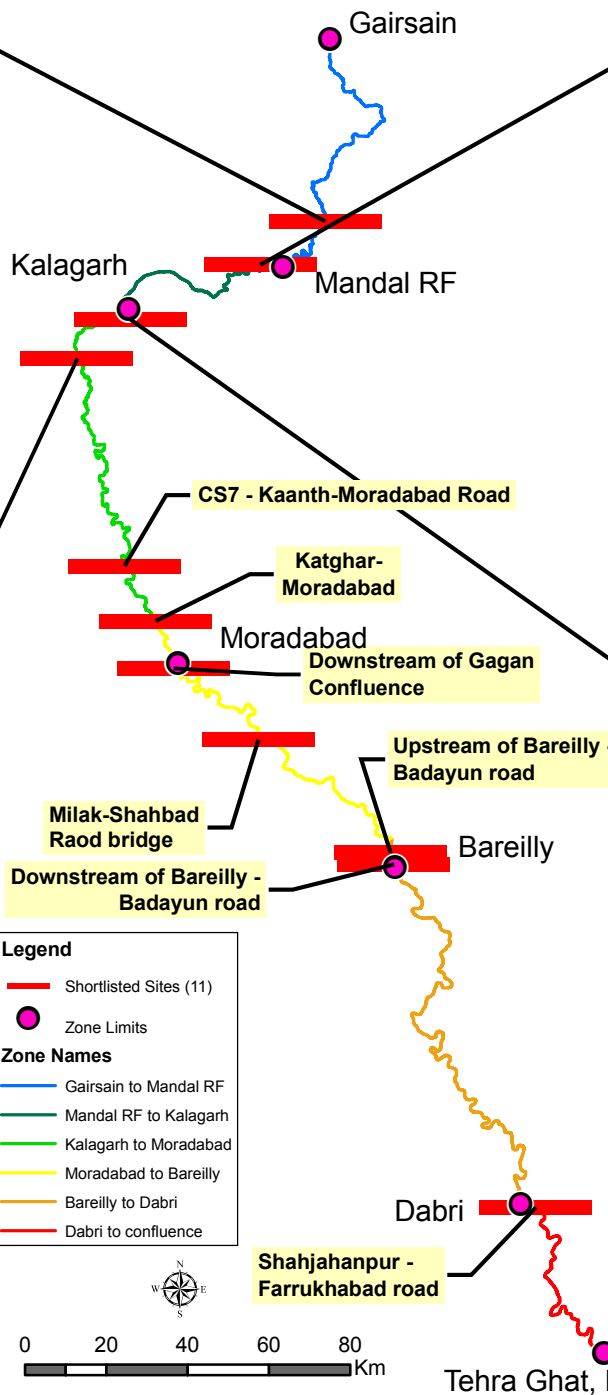


Shortlisted Sites

**Zone 2 : CS4 - Marchula Bridge
Marchula road**



**Zone 3 : CS5 - Kalagarh dam
Downstream of Afzalgarh Barrage**



77°E 78°E 79°E 80°E 81°E

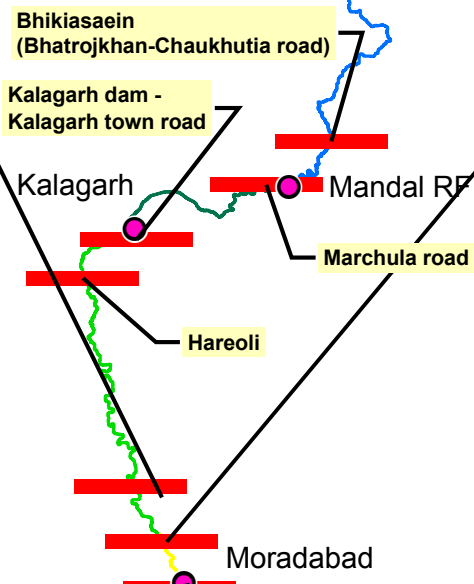
30°N 29°N 28°N 27°N

77°E 78°E 79°E 80°E 81°E

**Zone 3 : CS7 - Agwanpur
Kaanth-Moradabad Road**

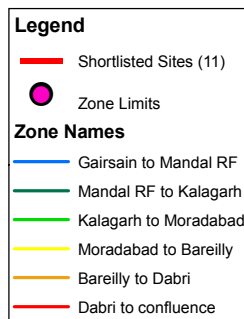
Shortlisted Sites

**Zone 3 : CS8 - Katghar Railway
Bridge, Katghar-Moradabad**



**Zone 4 : CS 9 - Downstream
of Gaagan Confluence**

**Zone 4 : CS 11 - Downstream of Kosi
Confluence, Milak-Shahbad Road bridge**



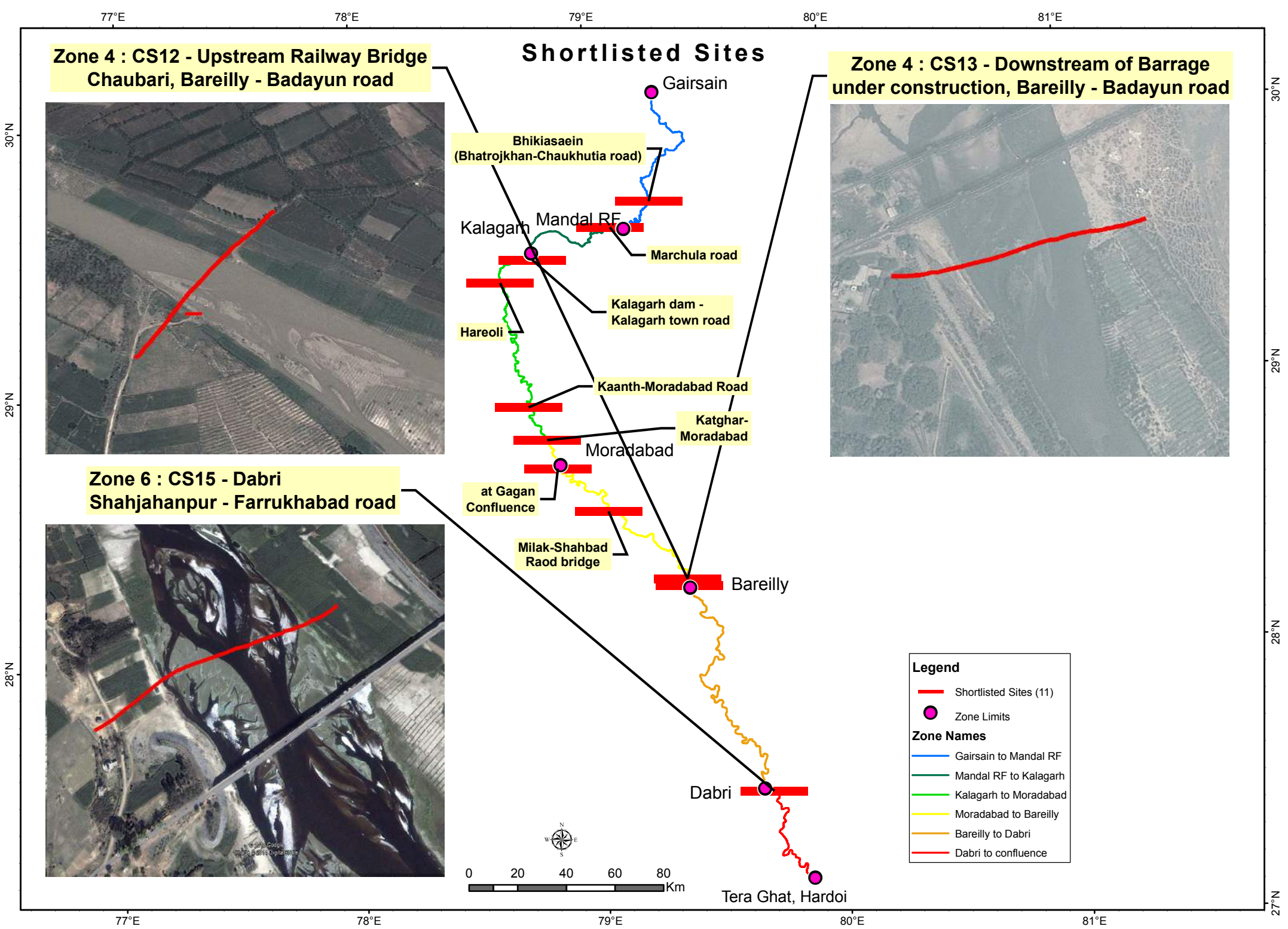
Dabri

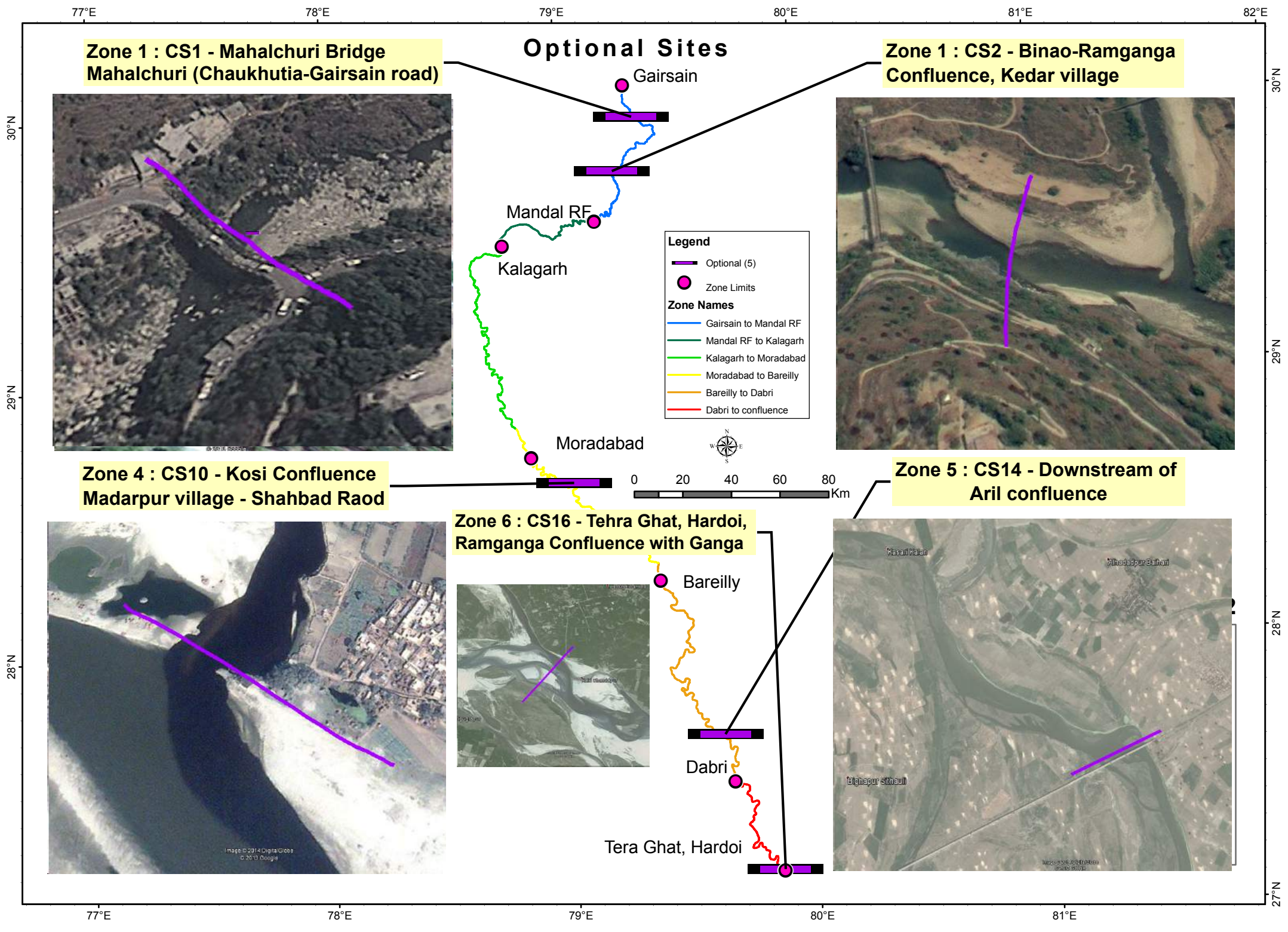
Shahjahanpur -
Farrukhabad road

Tera Ghat, Hardoi

77°E 78°E 79°E 80°E 81°E

30°N
29°N
28°N
27°N





Legend

- 

Zone Limits
- Water Resource Structures



Barrage (B)



Dam (D)



Gauge (G)



Proposed Barrage (B)



Weir (W)
- Hydroelectric Power Projects

Project Status



In Operation Major



In Operation Minor



Under Construction



Unalotted
- Water Quality Indiacator (WQI)



Poor



Good
- Dolphin Citation



Dolphin Citation Location

Shortlisted & Optional Sites

- 

Shortlisted Sites (No.)
- 

Optional Sites (No.)

Ramganga Canals

- 

Canals

Rivers

- 

Ramganga
- 

Major Tributaries
- 

Outside Ramganga Basin

Major Cities

City Classification based on Population

- 

Class - I (<= 100,000)
- 

Class - III (20,000 to 49,999)
- 

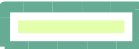
Class - II (50,000 to 99,999)
- 

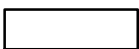
Class - IV (10,000 to 19,999)
- 

Class - V (5,000 to 9,999)

Boundaries

- 

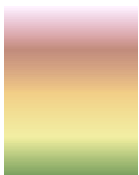
Study Area*
- 

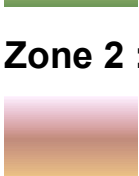
Jim Corbette Forest
- 

Districts

Elevation Zones

Zone 1 : Gairsain to Mandal RF

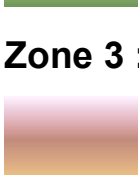
- 

High : 3069 m
- 

Low : 1200 m

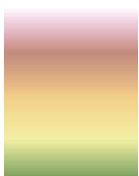
Zone 2 : Mandal RF to Kalagarh

- 

High : 1200 m
- 

Low : 250 m

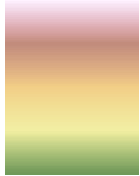
Zone 3 : Kalagarh to Moradabad

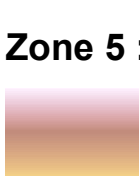
- 

High : 250 m
- 

Low : 180 m

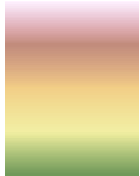
Zone 4 : Moradabad to Bareilly

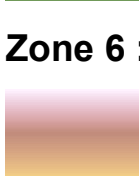
- 

High : 180 m
- 

Low : 152 m

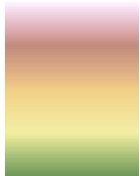
Zone 5 : Bareilly to Dabri

- 

High : 152 m
- 

Low : 135 m

Zone 6 : Dabri to confluence

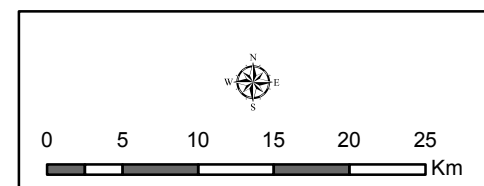
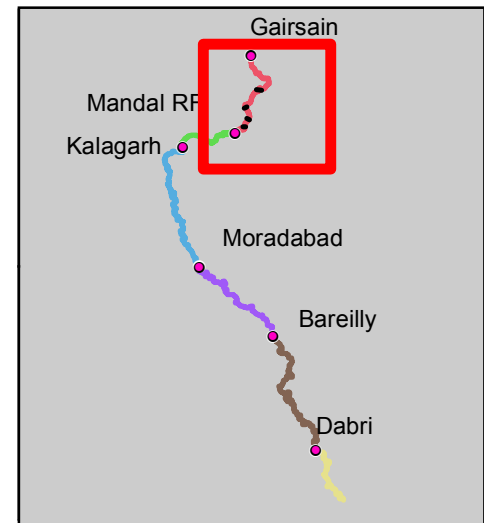
- 

High : 135 m
- 

Low : 74 m



Elevation Range - Zone 1: Gairsain to Mandal RF Ramganga River Basin



Analysis of Stretch of River Ramganga
from Gairsain, Uttarakhand to Hardoi,
Uttar Pradesh for Homogeneous Zoning

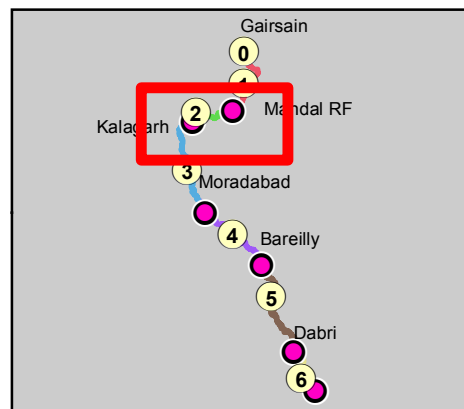
Submitted to: World Wide Fund for Nature
(WWF-India)

Prepared by: INRM Consultants Pvt. Ltd.

SCALE: 1:5,000,000 DATE: January, 2014



Elevation Range - Zone 2:
Mandal RF to Kalagarh
Ramganga River Basin



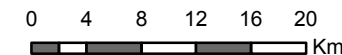
Analysis of Stretch of River Ramganga
 from Gairsain, Uttarakhand to Hardoi,
 Uttar Pradesh for Homogeneous Zoning

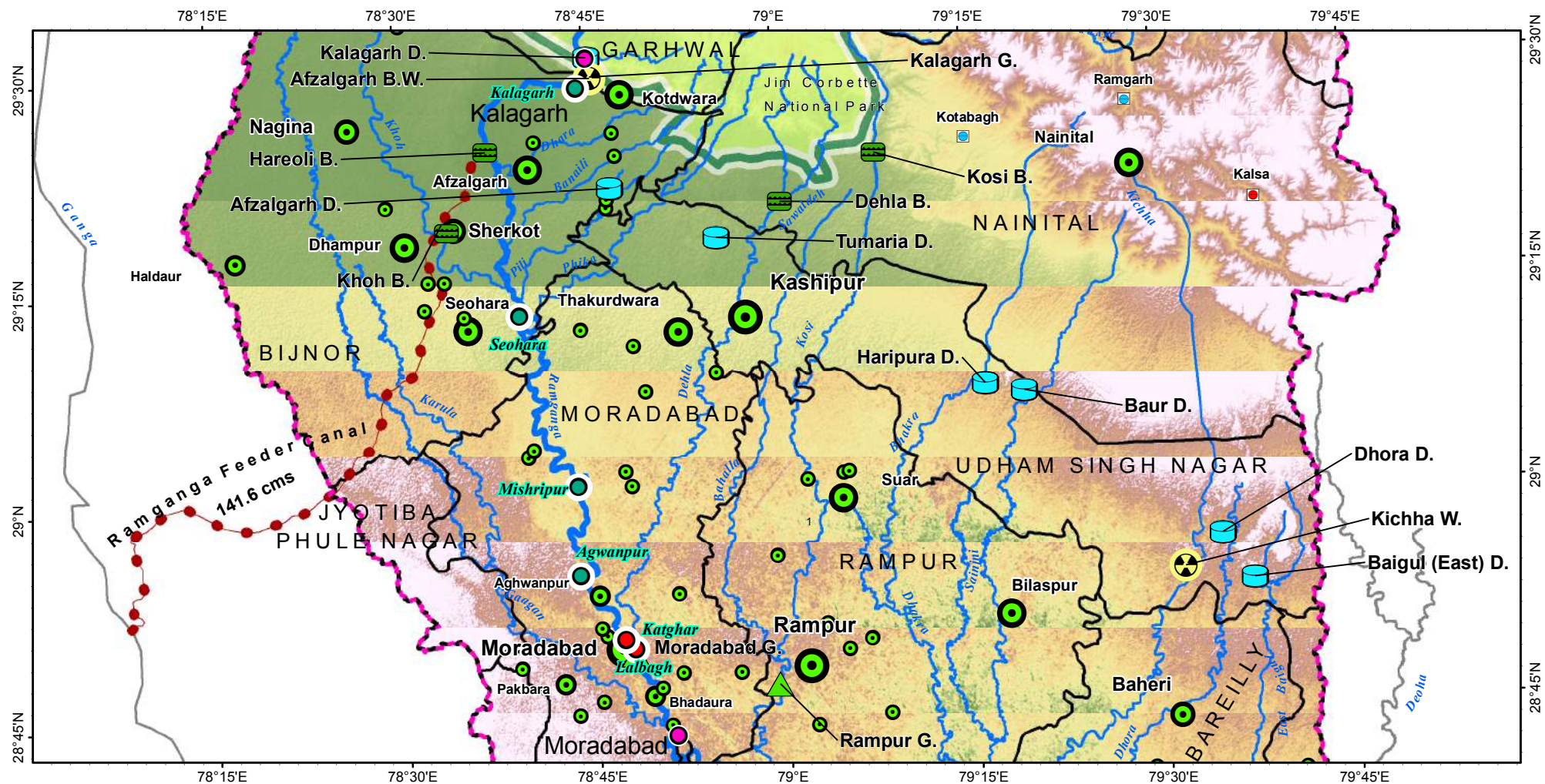
Submitted to: World Wide Fund for Nature
 (WWF-India)

Prepared by: INRM Consultants Pvt. Ltd.

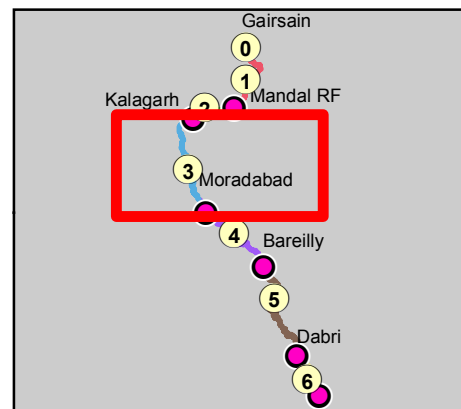
SCALE: 1:550,000

DATE: January, 2014





Elevation Range - Zone 3: Kalagarh to Moradabad Ramganga River Basin



Analysis of Stretch of River Ramganga
from Gairsain, Uttarakhand to Hardoi,
Uttar Pradesh for Homogeneous Zoning

Submitted to: World Wide Fund for Nature
(WWF-India)

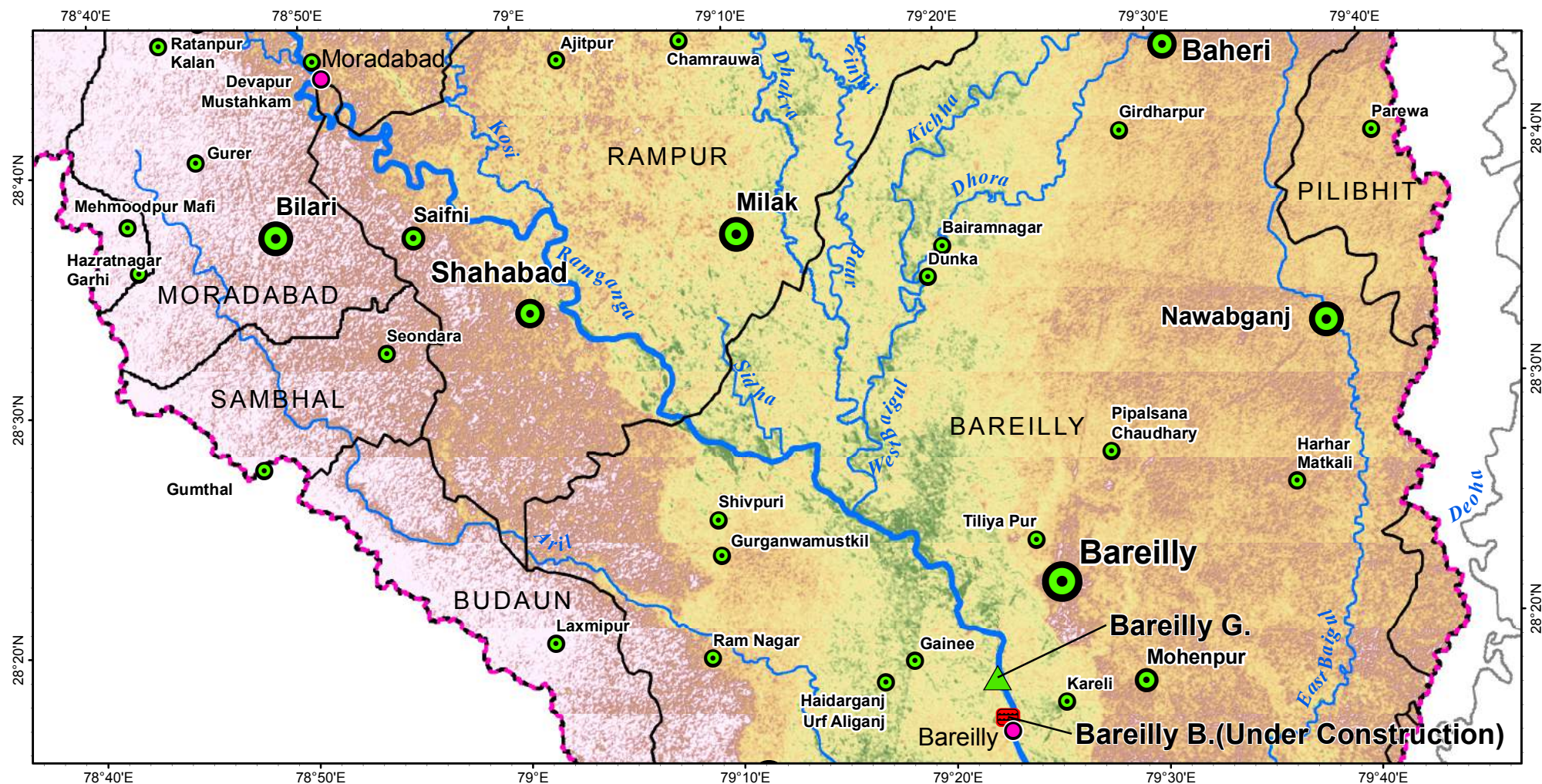
Prepared by: INRM Consultants Pvt. Ltd.

SCALE: 1:750,000

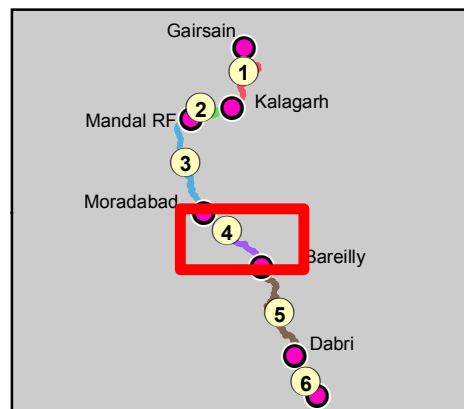
DATE: January, 2014



0 5 10 15 20 25
Km



Elevation Range - Zone 4: Moradabad to Bareilly Ramganga River Basin



Analysis of Stretch of River Ramganga
from Gairsain, Uttarakhand to Hardoi,
Uttar Pradesh for Homogeneous Zoning

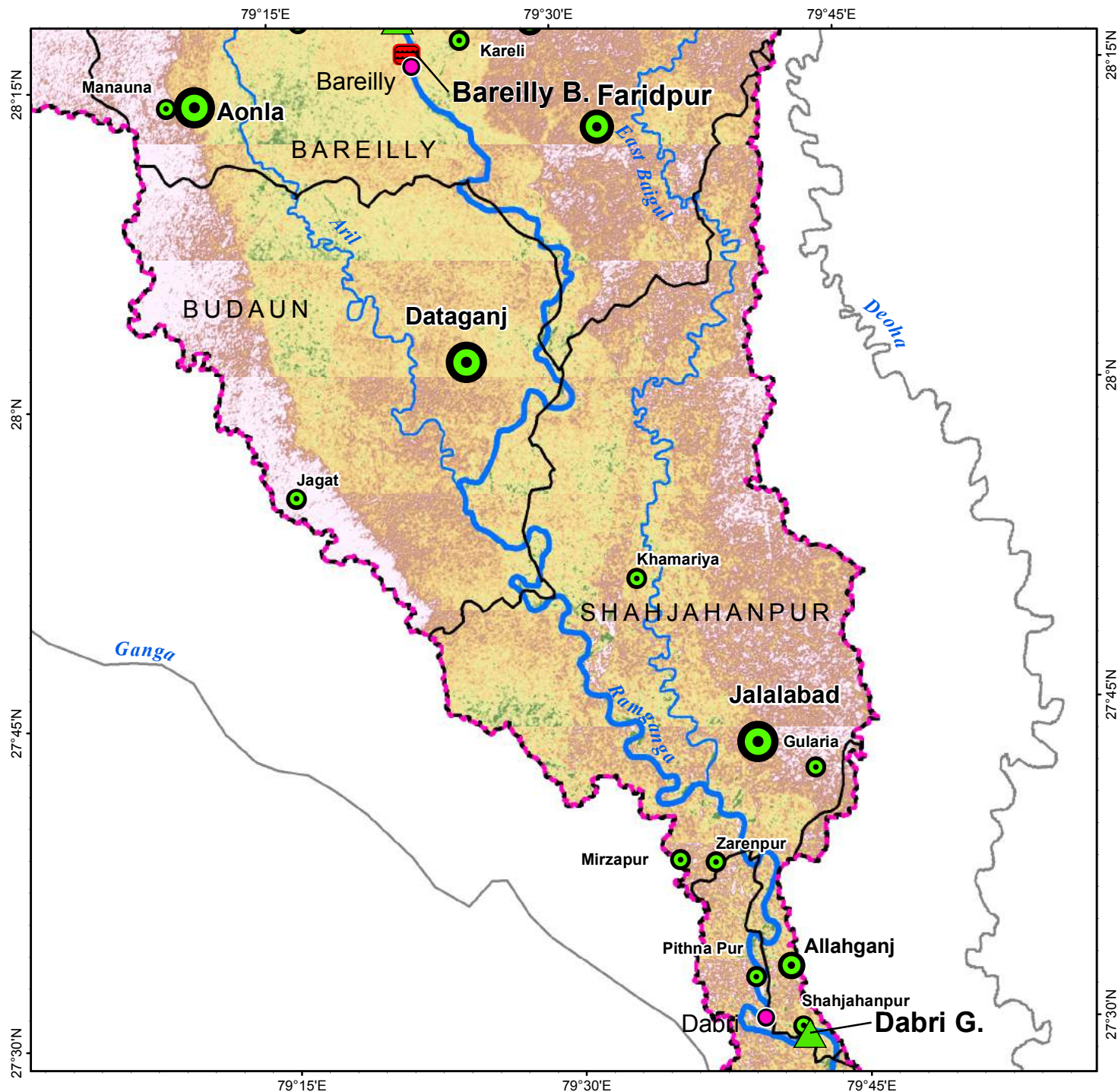
Submitted to: World Wide Fund for Nature
(WWF-India)

Prepared by: INRM Consultants Pvt. Ltd.

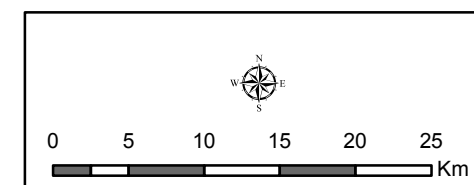
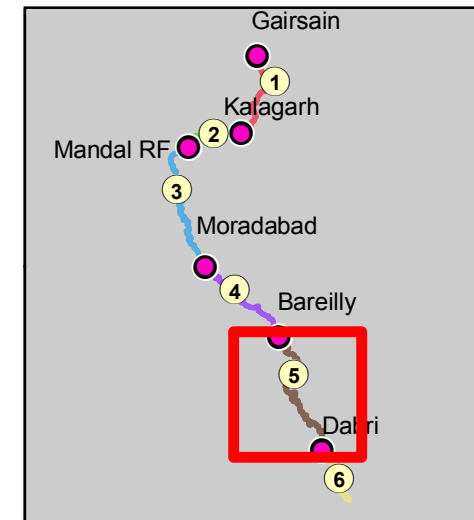
SCALE: 1:450,000

DATE: January, 2014





Elevation Range - Zone 5: Bareilly to Dabri Ramganga River Basin



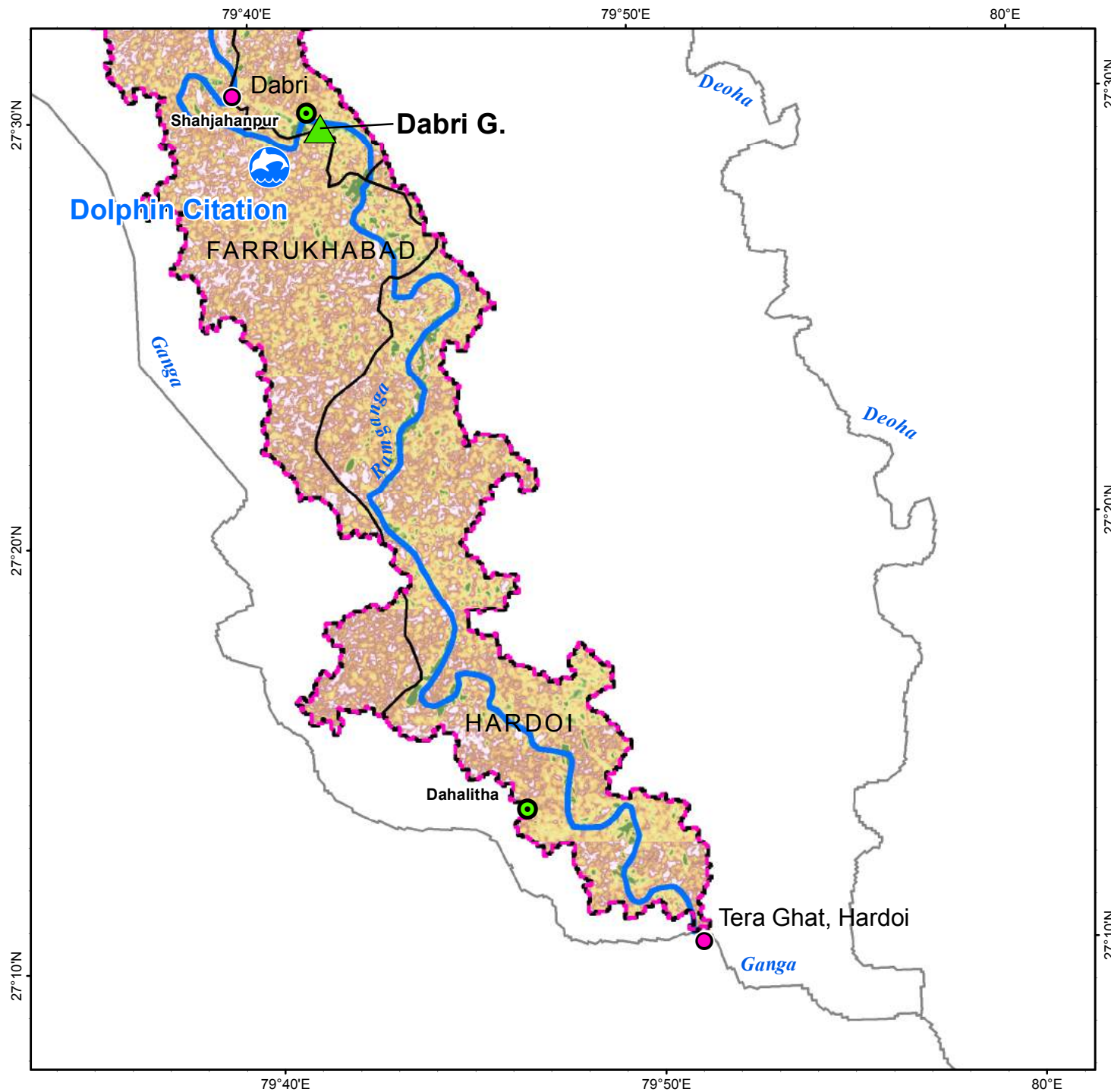
Analysis of Stretch of River Ramganga
from Gairsain, Uttarakhand to Hardoi,
Uttar Pradesh for Homogeneous Zoning

Submitted to: World Wide Fund for Nature
(WWF-India)

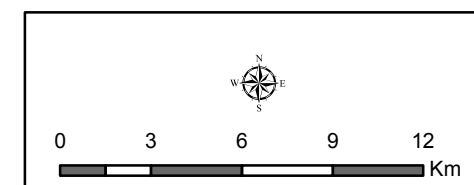
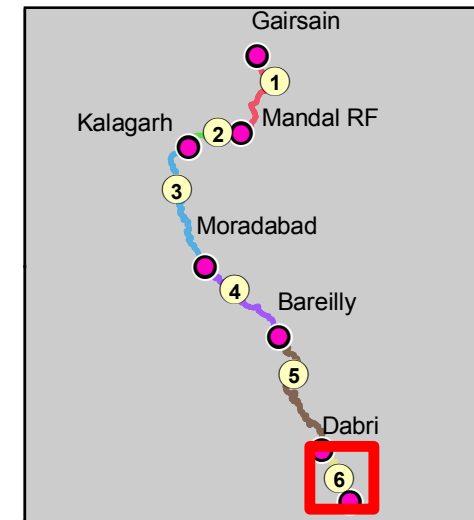
Prepared by: INRM Consultants Pvt. Ltd.

SCALE: 1:500,000

DATE: January, 2014



Elevation Range - Zone 6: Dabri to confluence Ramganga River Basin



Analysis of Stretch of River Ramganga
from Gairsain, Uttarakhand to Hardoi,
Uttar Pradesh for Homogeneous Zoning

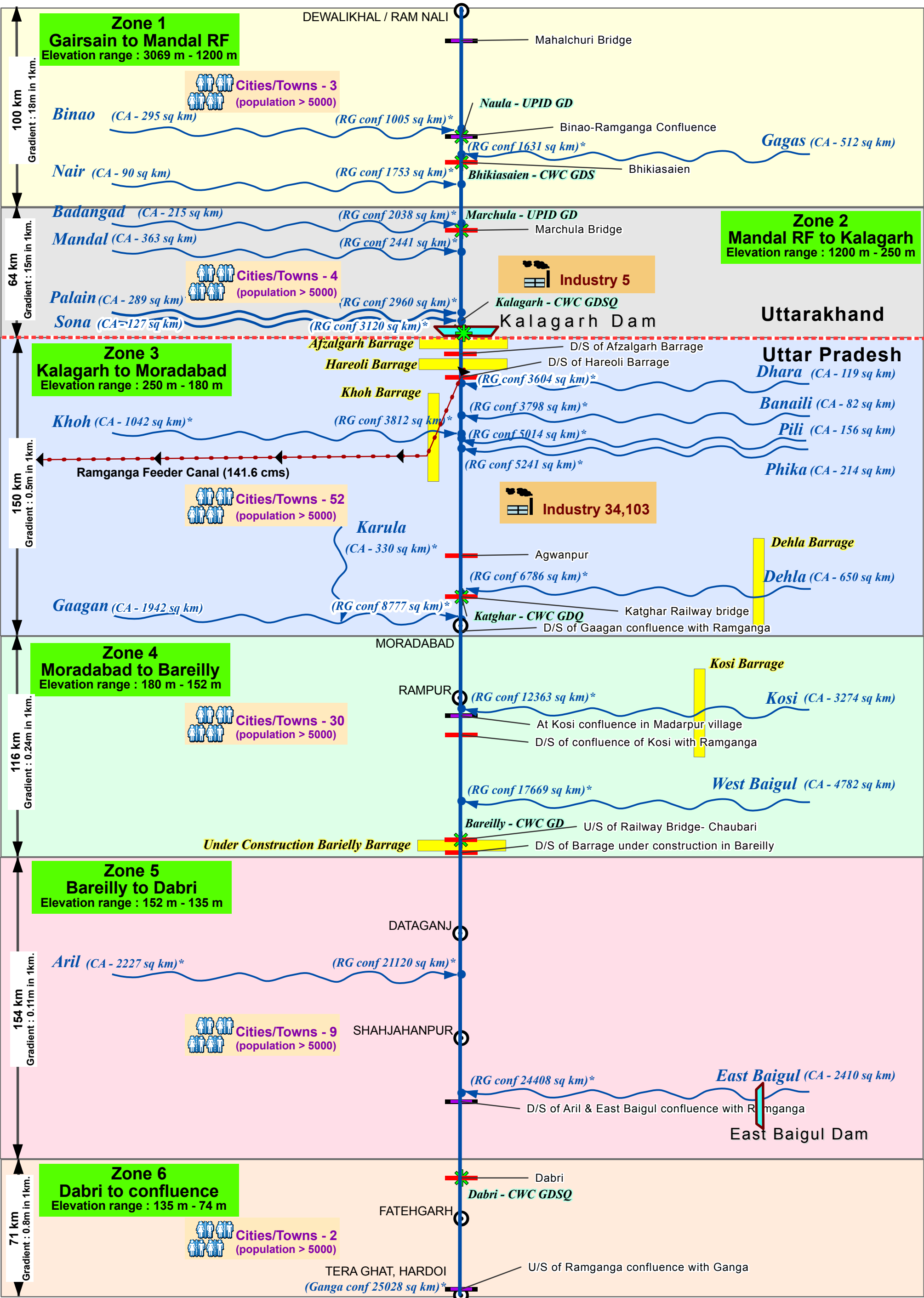
Submitted to: World Wide Fund for Nature
(WWF-India)

Prepared by: INRM Consultants Pvt. Ltd.

SCALE: 1:250,000

DATE: January, 2014

Line Diagram of Ramganga River



* CA - Catchment area of the tributary (sq km) / @ RG conf - Ramganga catchment area (sq km) upto tributary confluence (these figures are subject to further refinement during hydrology study)

Legend



Gauge



CITY



Selected Sites



Optional Sites



D a m



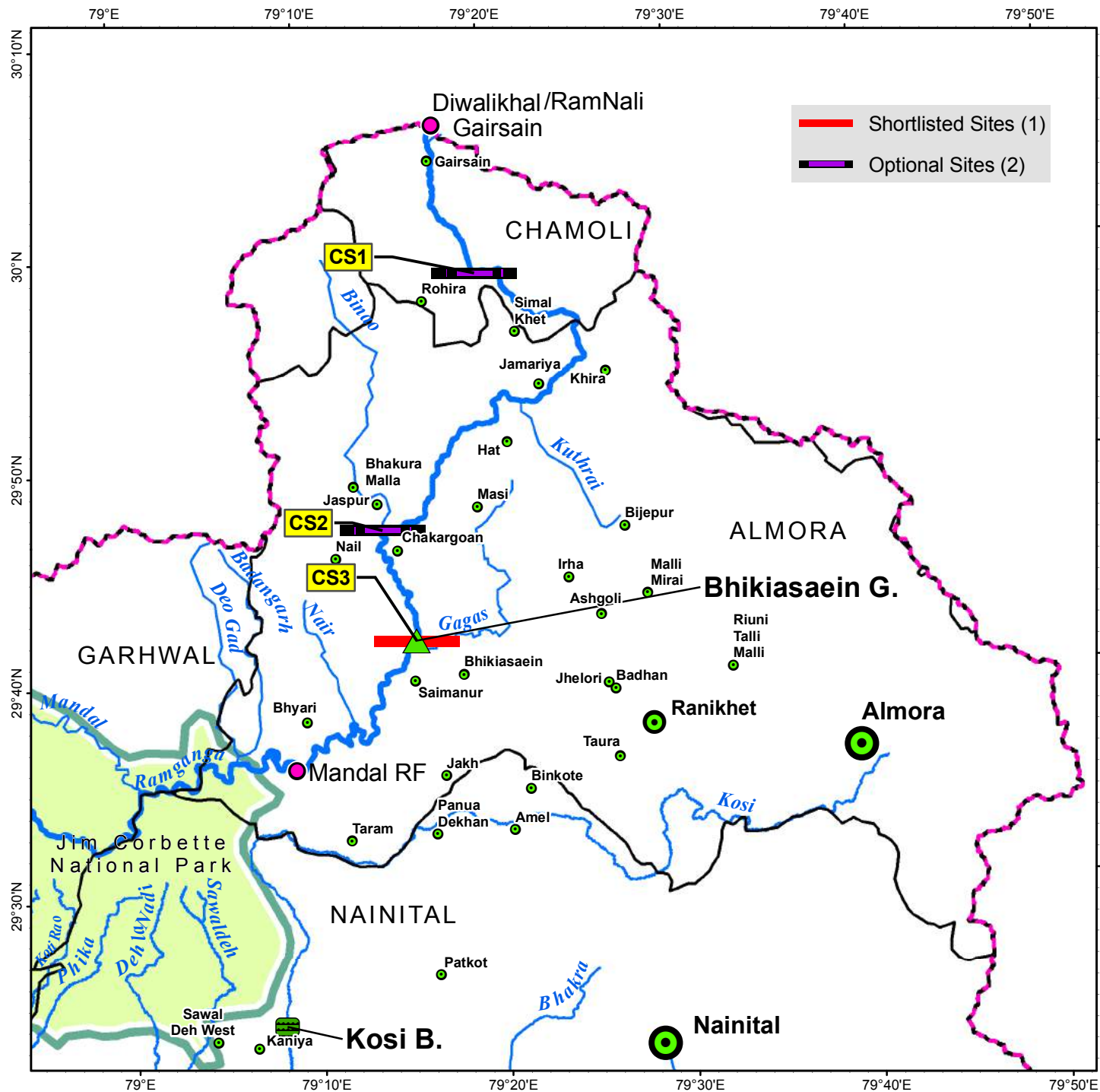
Canal



Barrage



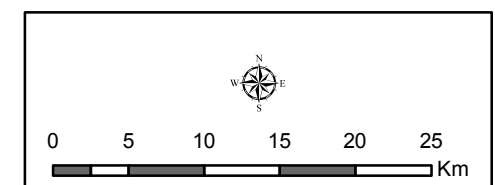
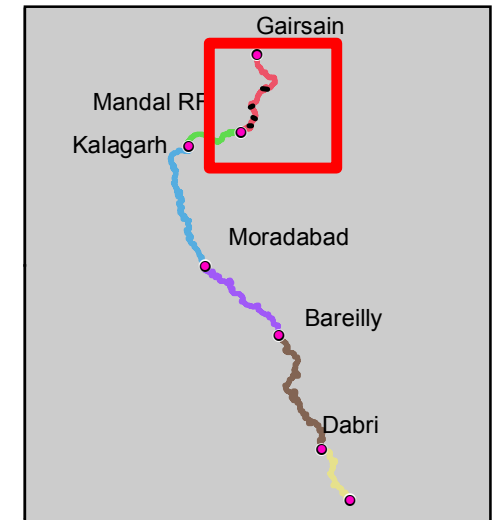
Tributaries



Shortlisted & Optional Sites - Zone 1

Gairsain to Mandal RF

Ramganga River Basin



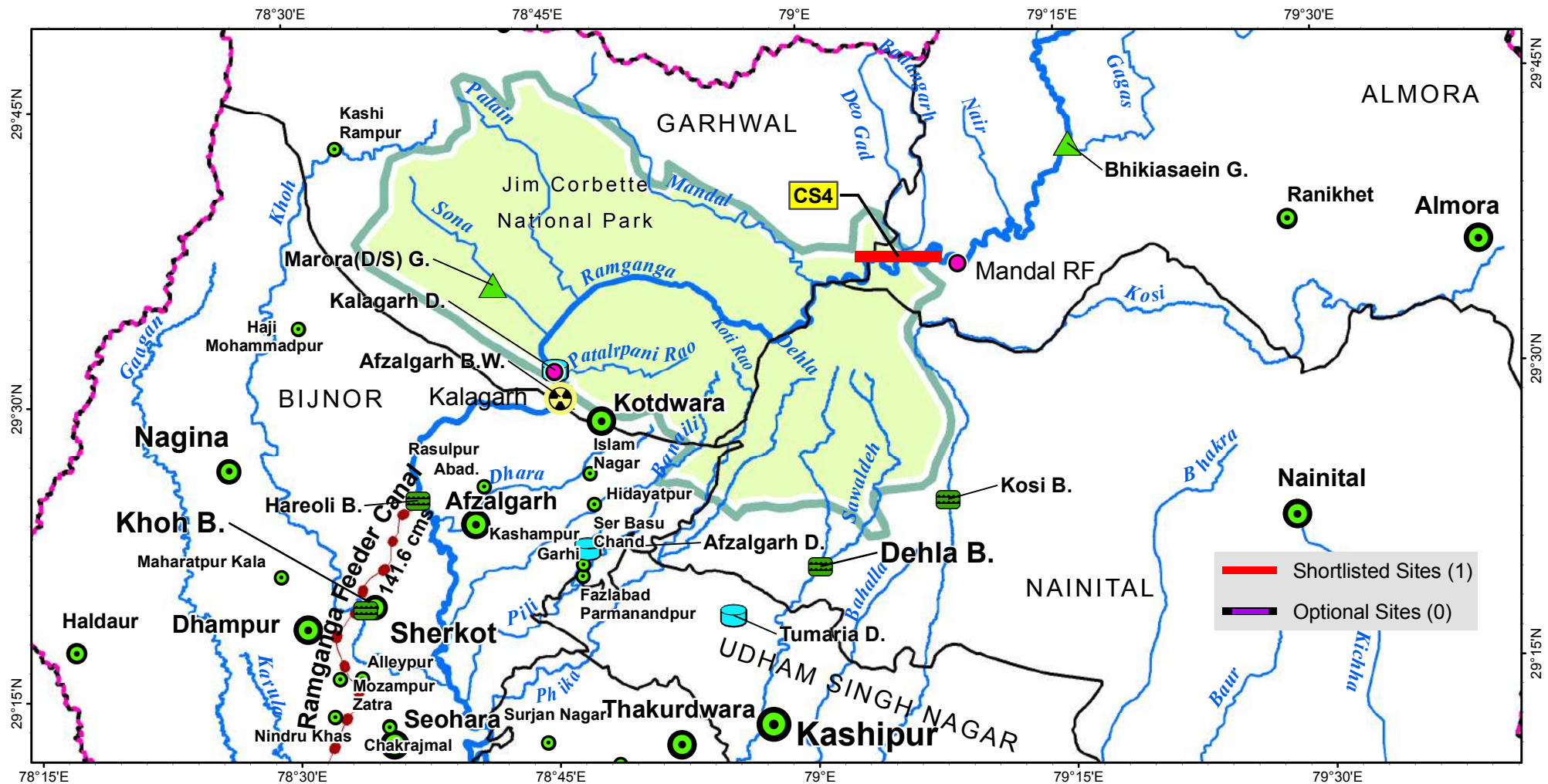
Analysis of Stretch of River Ramganga from Gairsain, Uttarakhand to Hardoi, Uttar Pradesh for Homogeneous Zoning

Submitted to: World Wide Fund for Nature (WWF-India)

Prepared by: INRM Consultants Pvt. Ltd.

SCALE: 1:5,000,000

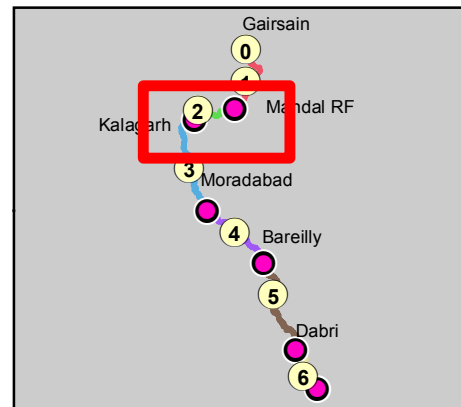
DATE: January, 2014



Shortlisted & Optional Sites - Zone 2

Mandal RF to Kalagarh

Ramganga River Basin



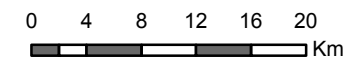
Analysis of Stretch of River Ramganga from Gairsain, Uttarakhand to Hardoi, Uttar Pradesh for Homogeneous Zoning

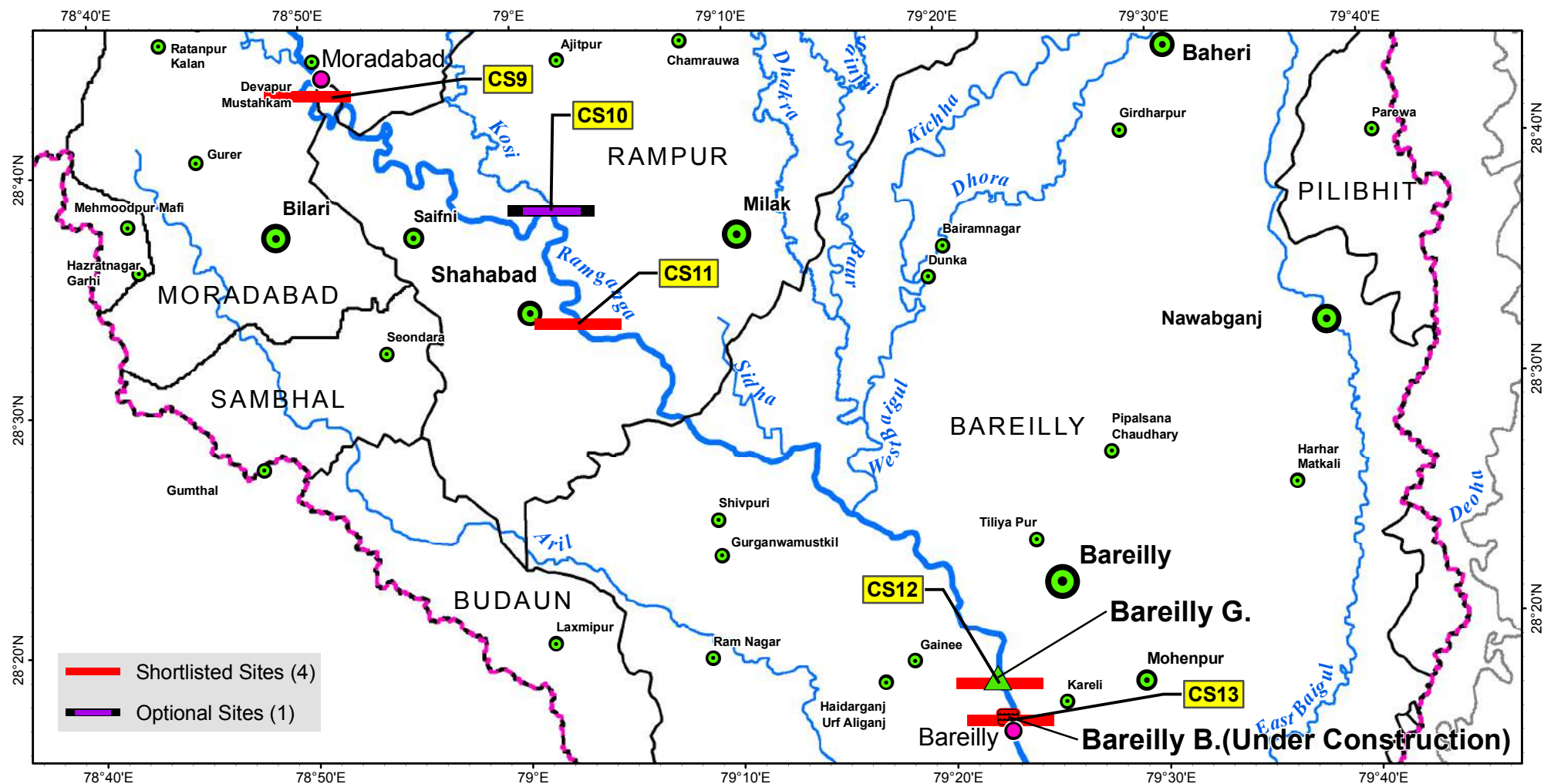
Submitted to: World Wide Fund for Nature (WWF-India)

Prepared by: INRM Consultants Pvt. Ltd.

SCALE: 1:550,000

DATE: January, 2014

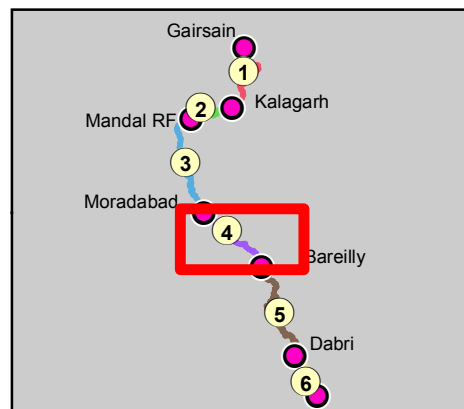




Shortlisted & Optional Sites - Zone 4

Moradabad to Bareilly

Ramganga River Basin



Analysis of Stretch of River Ramganga from Gairsain, Uttarakhand to Hardoi, Uttar Pradesh for Homogeneous Zoning

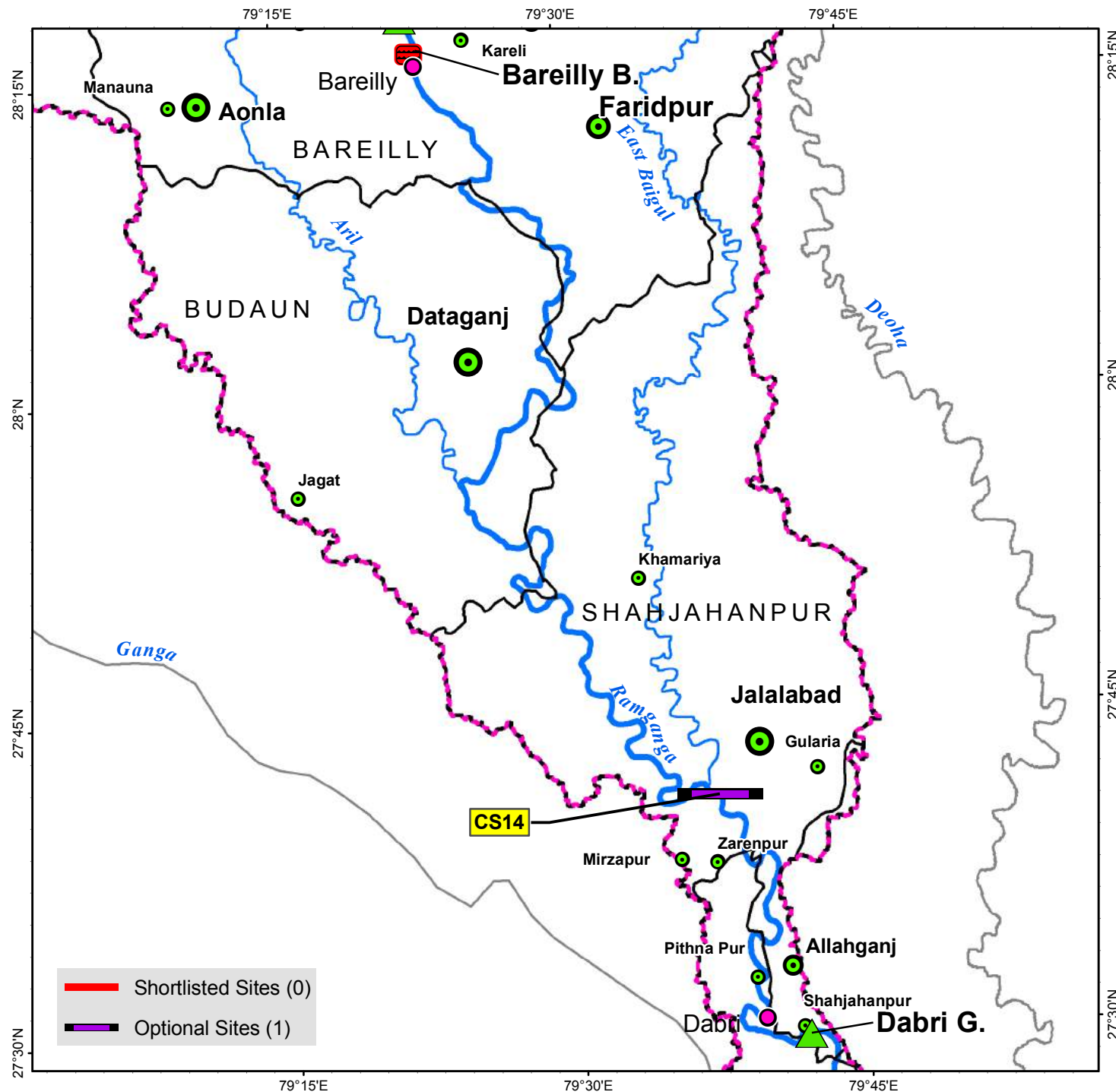
Submitted to: World Wide Fund for Nature (WWF-India)

Prepared by: INRM Consultants Pvt. Ltd.

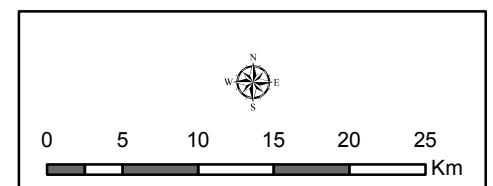
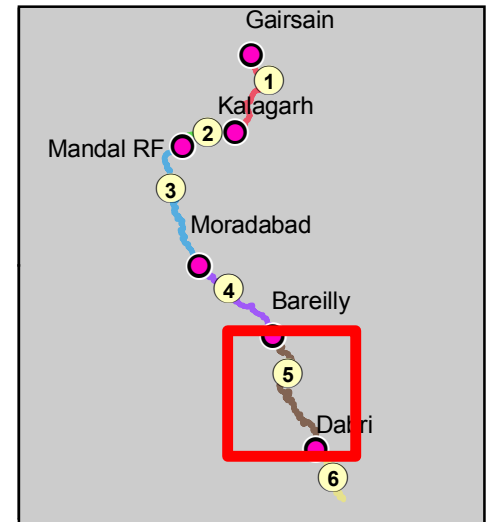
SCALE: 1:450,000

DATE: January, 2014





Shortlisted & Optional Sites - Zone 5 Bareilly to Dabri Ramganga River Basin



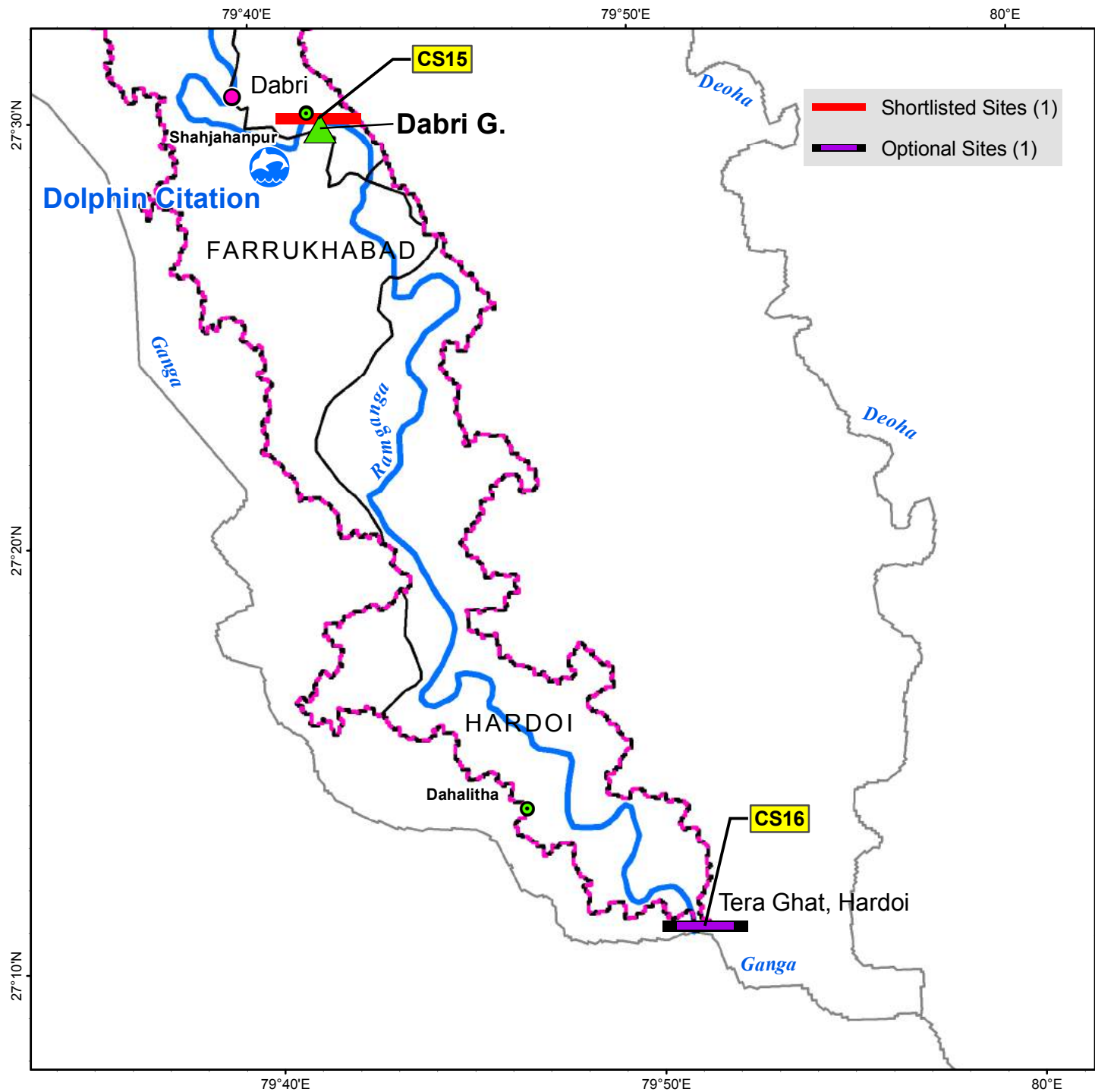
Analysis of Stretch of River Ramganga
from Gairsain, Uttarakhand to Hardoi,
Uttar Pradesh for Homogeneous Zoning

Submitted to: World Wide Fund for Nature
(WWF-India)

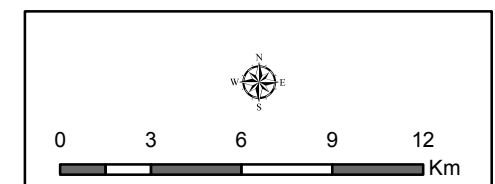
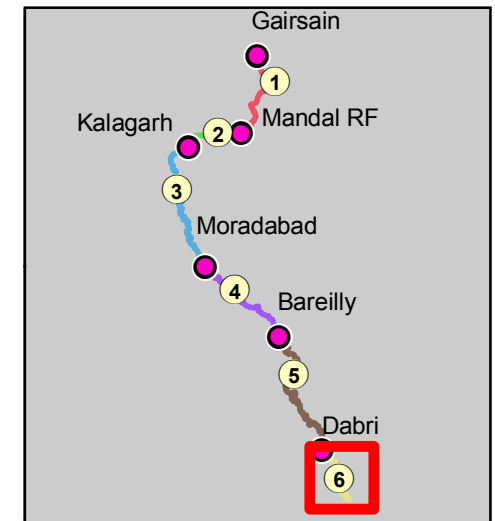
Prepared by: INRM Consultants Pvt. Ltd.

SCALE: 1:500,000

DATE: January, 2014



Shortlisted & Optional Sites - Zone 6 Dabri to confluence Ramganga River Basin



Analysis of Stretch of River Ramganga
from Gairsain, Uttarakhand to Hardoi,
Uttar Pradesh for Homogeneous Zoning

Submitted to: World Wide Fund for Nature
(WWF-India)

Prepared by: INRM Consultants Pvt. Ltd.

SCALE: 1:250,000

DATE: January, 2014