



NATIONAL MISSION FOR CLEAN GANGA

Department of Water Resources, River Development &
Ganga Rejuvenation, Ministry of Jal Shakti
Government of India

KANPUR NAGAR District River Atlas

Prepared by



cGanga

Centre for Ganga River Basin
Management and Studies
Indian Institute of Technology Kanpur



September 2025

National Mission for Clean Ganga (NMCG)

NMCG is the implementation wing of National Ganga Council which was setup in October 2016 under the River Ganga Authority order 2016. Initially NMCG was registered as a society on 12th August 2011 under the Societies Registration Act 1860. It acted as implementation arm of National Ganga River Basin Authority (NGRBA) which was constituted under the provisions of the Environment (Protection) Act (EPA) 1986. NGRBA has since been dissolved with effect from the 7th October 2016, consequent to constitution of National Council for Rejuvenation, Protection and Management of River Ganga (referred to as National Ganga Council).

www.nmcg.in

Centre for Ganga River Basin Management and Studies (cGanga)

cGanga is a think tank formed under the aegis of NMCG, and one of its stated objectives is to make India a world leader in river and water science. The Centre is headquartered at IIT Kanpur and has representation from most leading science and technological institutes of the country. cGanga's mandate is to serve as think-tank in implementation and dynamic evolution of Ganga River Basin Management Plan (GRBMP) prepared by the Consortium of 7 IITs. In addition to this it is also responsible for introducing new technologies, innovations and solutions into India.

www.cganga.org

Acknowledgment

This river atlas is a collective effort of many experts, institutions and organisations, in particular team cGanga, IIT Kanpur & NMCG, Jal Shakti Ministry, Gol.

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KANPUR NAGAR DISTRICT RIVER ATLAS REPORT

September 2025



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Indian Institute of Technology Kanpur



Preface

Kanpur Nagar, a key industrial and demographic hub of Uttar Pradesh, is situated between the Ganga and Pandu rivers, its prosperity intrinsically linked to the health of this dynamic hydrological system. Over the years, the district's water networks—comprising major rivers, tributaries, and urban drains—have come under increasing stress from urban expansion, industrial effluents, and the growing impacts of climate change.

Effective water resource management has been constrained by the disconnect between administrative boundaries and natural river basins, further compounded by the absence of comprehensive, district-level river network maps. The **Kanpur Nagar District River Atlas** has been developed to address this gap. Derived from an extensive geodatabase encompassing the entire Ganga Basin, the atlas maintains basin-scale integrity while providing accurate, district-specific datasets standardized using Local Government Directory (LGD) codes for interoperability.

The atlas documents **145 rivers and nalas extending over 1,000 kilometres**, created through collaboration with **cGanga, IIT Kanpur**. It represents a unified hydrological inventory that integrates scientific accuracy with administrative relevance, offering an essential reference for spatial planning, flood management, pollution control, and groundwater recharge initiatives. The detailed mapping of villages and urban centres along these watercourses enhances its value for informed decision-making and coordinated action.

Beyond serving as a repository of data, this atlas functions as an operational tool that translates scientific insight into governance. It provides the foundation for targeted interventions under national programs such as **Namami Gange** and **Jal Shakti Abhiyan**, strengthening Kanpur Nagar's resilience against environmental and climatic challenges.

It is envisioned that this atlas will empower administrators, planners, researchers, and citizens to collectively safeguard and rejuvenate the rivers and nalas of Kanpur Nagar—ensuring they continue to sustain the district's ecological and economic vitality.

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Executive Summary

Overview

The Kanpur Nagar District River Atlas consolidates the hydrological, geomorphological, and administrative datasets for all 145 rivers and nalas intersecting or originating within Kanpur Nagar, Uttar Pradesh. The district's river network lies entirely within the Ganga Basin, encompassing both major rivers (such as the Ganga, Yamuna, Betwa, Isan, Rind, and Pandu) and a dense web of minor tributaries, nalas, and ephemeral streams that play crucial roles in local drainage, urban flood dynamics, and ecological connectivity.

Key Hydrological Findings

The total mapped length of watercourses within the district boundary exceeds 1,000 km, integrating both perennial and seasonal systems. The Ganga River forms the primary drainage axis, traversing 66.78 km within the district. The Yamuna, though geographically peripheral, influences groundwater gradients and subsurface flow regimes due to its proximity (~32.67 km within district influence). Significant regional tributaries include Betwa (702.96 km total length; 0.08 km within district), Isan (408.62 km total; 35.9 km within district), Rind (771.3 km total; 89.1 km within district), Pandu (271.72 km total; 118.14 km within district), and Non River (total length = 149 km, length within district = 73 km). Around 110 smaller nalas (<10 km) provide localized drainage for urban and peri-urban catchments, particularly those intersecting Kanpur city, Bilhaur, and Narwal blocks.

Total River & Nala Network Statistics

Parameter	Value / Count
Total identified rivers & nalas	145
Major river systems (>50 km)	6
Secondary tributaries (10–50 km)	27
Urban drainage nalas (<10 km)	112
Cumulative mapped length (district jurisdiction)	~1,045 km
Villages located on riverbanks	>500 distinct settlements
Urban centers along riverbanks	Kanpur, Bilhaur, Narwal, Armapur Estate, Northern Railway Colony, Choubepur Kalan

Strategic Importance for Planning, Management, and Resilience

The river atlas serves as a baseline hydrological inventory to guide:

- Urban Flood Mitigation: Identification of nalas intersecting high-density built-up zones (e.g., COD, Ganda, and Dabka nalas).
- Pollution Source Tracking: Correlation of outfalls with industrial clusters and unsewered areas.
- Groundwater Recharge Zonation: Mapping potential recharge corridors along Pandu, Isan, and Rind rivers.

- Climate Resilience: Buffering impacts of erratic monsoon and surface runoff through nala rejuvenation and floodplain management.
- Administrative Coordination: Enabling convergence between natural drainage units (sub-basins) and administrative boundaries (blocks, wards, districts) for integrated planning.

Overview of Data Sources, Mapping Accuracy, and Applications

Primary Source Data: National Hydrography Database (Bhuvan–NRSC), Sol toposheets, and field-verified datasets from IIT Kanpur hydrological mapping campaigns (2023–25).

Data Accuracy: ± 15 m horizontal and ± 8 m vertical (based on GPS validation and spatial rectification).

Applications:

- District-level flood and stormwater management plans.
- Integration with Smart City and Jal Shakti Abhiyan initiatives.
- Reference for environmental clearances and watershed-based planning under AMRUT 2.0.

1. Introduction

Kanpur Nagar lies in the central Ganga Plain, a hydro-geomorphic unit characterized by low gradient alluvial plains, meandering channels, and intermittent floodplains. The region's hydrology is controlled by the Ganga River system, with multiple eastward and southeastward draining tributaries. This atlas was prepared to delineate, classify, and quantify these fluvial systems using remote sensing and GIS tools, supplemented by field validation and stakeholder consultations.

2. Objectives & Scope

The primary objectives are:

- To create a geo-referenced inventory of all river and nala systems in the district.
- To establish hydrological linkages between natural streams and urban drainage networks.
- To develop a management framework aligning with both natural basin boundaries and administrative jurisdictions.
- To support decision-making for flood risk mitigation, pollution abatement, and groundwater management.

Scope includes all linear watercourses visible in satellite imagery and/or recorded in hydrological databases within the Kanpur Nagar administrative district.

3. Methodology

Geo-referencing & Data Validation:

Survey of India (Sol) maps were used for georeferencing which adopted a Projected Coordinate System (e.g., UTM Zone 44N for the Kanpur region). River alignments were digitized at 1:5,000 scale, validated through differential GPS surveys at 75 sampling sites.

Hydrological Mapping Workflow:

1. Identification of stream initiation points using digital elevation models (DEM).
2. Extraction of drainage lines using flow accumulation algorithms.
3. Validation of channel connectivity against topographic contours.
4. Integration of urban nalas derived from municipal stormwater networks.
5. Compilation of attributes—coordinates, lengths, associated settlements, and codes—into a unified geodatabase.

4. Integration of Natural and Administrative Boundaries in River Basin Management

Nature organizes its processes according to physical laws and ecological boundaries, not administrative limits. For surface water systems, these natural limits manifest as river basins, which define the spatial domain over which hydrological, geomorphological, and ecological interactions occur. Thus, for hydrological studies and basin-scale planning, it is imperative to adopt the natural river basin boundary as the fundamental unit of analysis and planning.

As illustrated in Figure 1 of the framework, river basins are structured hierarchically—from large continental-scale systems (Level 1 Basins) to progressively smaller sub-basins, sub-sub-basins (Levels 2, 3, 4), and ultimately to micro-watersheds that drain into local streams. This nested configuration ensures that each smaller basin contributes to the health and hydrology of the larger system. Consequently, strategic planning and coordination for river management should follow a top-down approach, beginning from the larger basins to guide regional-scale prioritization and resource allocation.

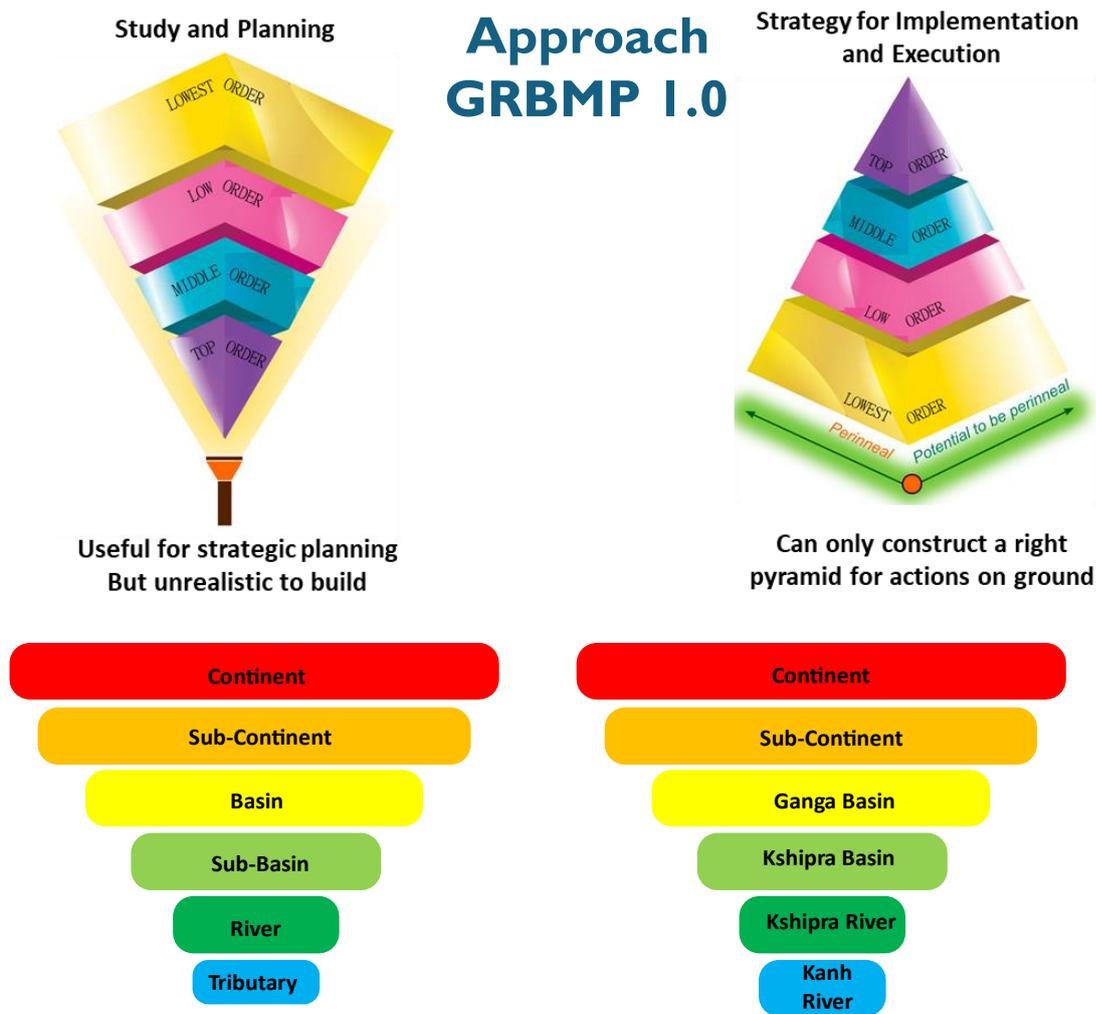


Figure 1: Hierarchical Structure of Basin Boundaries for Strategic Planning (Top-Down Approach) vis-vis for Micro Level Planning (Bottom-up Approach)

However, implementation, supervision, and project-level coordination occur within administrative jurisdictions—states, districts, and local bodies. Since natural river basins often traverse multiple administrative units, bridging ecological and political boundaries becomes a key challenge. The District River Management Plan (DRMP) framework resolves this through a nested planning model, where basin-level strategies are translated into district and block-scale operational plans.

In this model, natural boundaries are used for scientific studies and macro-level policy formulation, while administrative boundaries guide on-ground execution. The District

Magistrate—as the central authority for all departmental schemes—plays the pivotal role in coordinating interventions across departments to ensure basin-aligned implementation. For instance, the Isan and Rind Rivers, which cross both Bilhaur and Rasoolabad tehsils in Kanpur Nagar, exemplify the necessity of multi-block coordination under a unified district plan to ensure ecological coherence across jurisdictional limits.

The conceptual framework depicted in Figure 2 underscores this complementarity. At the strategic (top-down) level, basin-level policies—such as those formulated under the Ganga River Basin Management Plan (GRBMP)—set the direction and objectives for restoration, conservation, and pollution control. At the operational (bottom-up) level, micro-planning, project identification, and community engagement occur within local administrative boundaries, ensuring responsiveness to site-specific hydrological and socio-economic contexts.

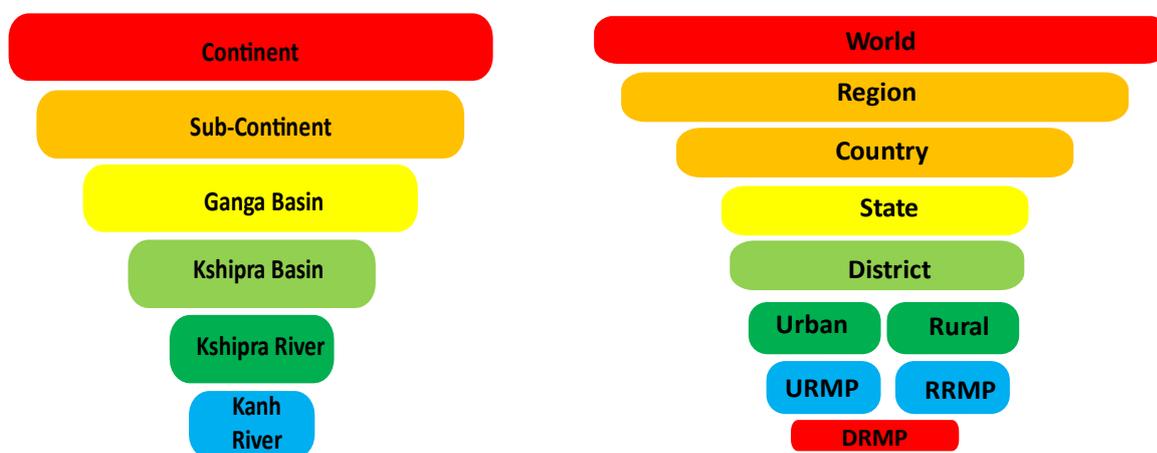


Figure 2: Integration of Natural and Administrative Boundaries for River Basin Implementation (Bottom-Up Approach)

This dual approach forms the basis of convergence—where insights from basin-level analyses are deciphered into actionable interventions within administrative units. Through this synthesis, natural processes are respected, and administrative efficiency is leveraged, ensuring that river rejuvenation efforts remain both scientifically grounded and institutionally implementable.

In summary, the Kanpur Nagar River Atlas and DRMP framework exemplify this integration by aligning hydrological sub-basins within district and block limits, thereby transforming scientific mapping into actionable governance. This ensures that when a river exits a district boundary, its ecological condition improves relative to when it entered, embodying the guiding principle of sustainable and adaptive river basin management.

5. Role of District River Atlases

District River Atlases provide a spatial and statistical foundation for:

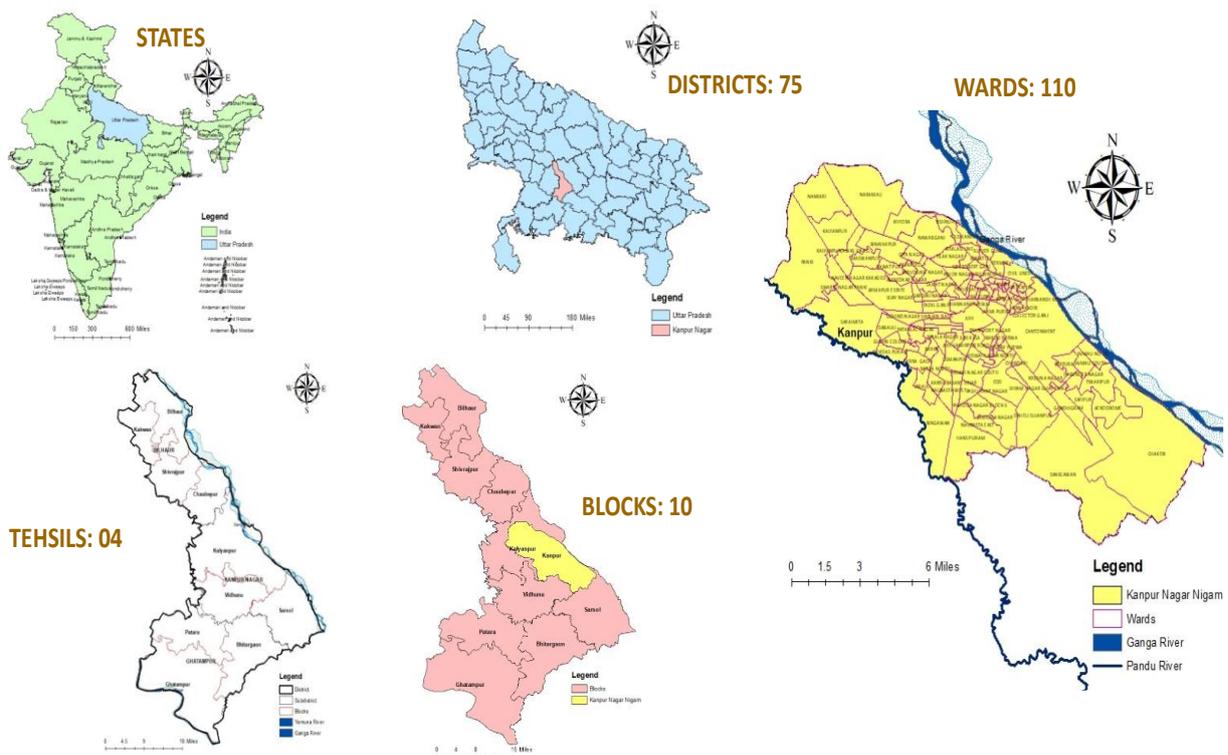
- Prioritizing restoration projects under Namami Gange and River City initiatives.
- Standardizing nomenclature for local nalas and ensuring traceability.
- Integrating hydrological and socio-economic data for district disaster management.

6. Kanpur Nagar District Profile

6.1. General Profile

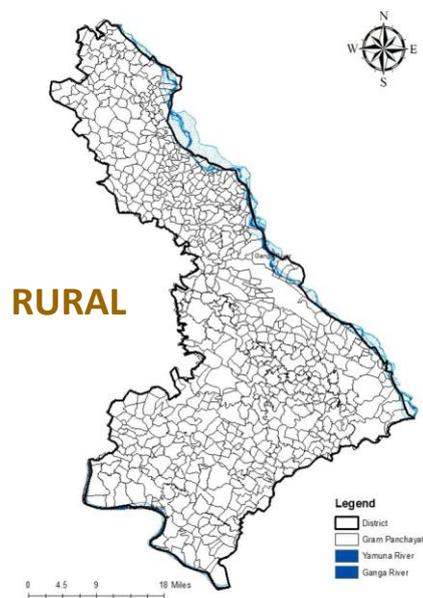
Kanpur Nagar, one of the major districts of Uttar Pradesh, lies between 25°26' to 26°58' N latitude and 79°31' to 80°34' E longitude on the southern bank of the River Ganga. The district spans an area of approximately 3,155 km² and is part of the Central Ganga Plain, characterized by fertile alluvial soil and a subtropical climate.

Administrative Boundaries



Geographic Extent	~3,155 km ²
Elevation Range	120–150 m AMSL
Climatic Regime	Sub-humid tropical monsoon with ~850 mm annual rainfall
Hydrological Setting	Entirely within the Ganga Basin, drained primarily through north–south trending nalas
Urban Pressure Zones	Kanpur City, Bithoor, and Narwal have experienced channel encroachments and nala diversions

Kanpur Nagar District: Urban and Rural



Demography

SUMMARY

Urban Population: 3015645

Rural Population: 1565623

Total Population: 4581628

* As per Census 2011

RURAL

S No.	Blocks	Rural Population 2011	Number of Villages
1	Bhitargaon	178550	112
2	Bilhaur	172167	96
3	Chaubepur	128833	101
4	Ghatampur	211778	118
5	Kakwan	64250	36
6	Kalyanpur	171240	70
7	Patara	149958	68
8	Sarsol	187301	90
9	Shivrajpur	121549	119
10	Vidhunu	179997	92

URBAN

S No.	Name	2011 Population
1	Ghatampur	40623
2	Bithoor	11300
3	Bilhaur	20493
4	Shivrajpur	11948
5	Kanpur	2768057

S No.	Work	Prepared By	Format	Data	Source
1	Population	cGanga	.shp	Blocks	Census 2011
2	Population Density	cGanga	.shp	Blocks	UPDES (2019)
3	Urban Centers	cGanga	.shp	05 Nos.	Census 2011
4	Village	cGanga	.shp	902 Nos.	Census 2011

As per the Census 2011, the district hosts a population of 4.58 million, with a high urbanization rate of over 75%, making it one of the most urbanized districts in northern India. Kanpur city, the district headquarters, is among the largest industrial and educational hubs in the state.

6.2. Historical and Cultural Significance

Kanpur has deep historical roots extending to the pre-colonial period. It rose to prominence during the First War of Indian Independence (1857) as a key center of resistance led by Nana

Saheb Peshwa. The city's landmarks, such as Bithoor, Massacre Ghat, and Kanpur Memorial Church, reflect its historical legacy.

Culturally, Kanpur represents a confluence of traditional Awadhi and Bundelkhandi influences. Its rich literary, artistic, and musical traditions coexist with urban modernity. The Ganga and its Katri belt villages hold significant spiritual and cultural importance, particularly during religious festivals like Kartik Purnima and Ganga Dussehra.

6.3. Social and Educational Profile

Kanpur Nagar is a major educational nucleus of northern India. It is home to Indian Institute of Technology Kanpur (IIT Kanpur), one of India's premier technical institutions, along with Chhatrapati Shahu Ji Maharaj University (CSJMU), Harcourt Butler Technical University (HBTU), and several professional colleges and research centers.

The district has a literacy rate of ~81%, significantly above the national average, reflecting its long-standing emphasis on education and technical advancement.

6.4. Economic and Industrial Importance

Kanpur has historically been called the "Manchester of the East", due to its prominence in the leather, textile, and engineering industries. It continues to serve as one of India's largest centers for leather exports, housing numerous tanneries (primarily in Jajmau), along with major fertilizer, defense, and engineering establishments such as:

Hindustan Aeronautics Limited (HAL)
Ordnance Factory Kanpur
Lohia Corp and JK Group industries

The district contributes significantly to Uttar Pradesh's industrial GDP, and is a focal point for trade and logistics in the Ganga basin region, linked through the Delhi–Howrah rail corridor and the National Waterway-1.

6.5. Agricultural and Rural Context

Despite its industrial dominance, rural Kanpur Nagar retains a vibrant agrarian base. The district's fertile alluvial soils support the cultivation of wheat, paddy, pulses, and oilseeds, while the Katri belt near the Ganga sustains vegetable and horticultural production.

The Pandu, Isan, and Rind rivers provide natural irrigation support, while canal and groundwater systems supplement agriculture. The rural economy integrates agro-based industries such as food processing, dairy, and small-scale units.

6.6. Political and Administrative Context

Administratively, Kanpur Nagar is divided into four tehsils — Kanpur Sadar, Bilhaur, Ghatampur, and Narwal, comprising 10 development blocks. The Kanpur Municipal

Corporation governs the urban area, while Panchayati Raj institutions manage rural governance.

Politically, the district holds strategic importance, represented by multiple assembly constituencies and one Lok Sabha seat, influencing regional policy decisions due to its industrial and demographic weight.

6.7. Environmental and Strategic Significance

The district’s location along the Ganga River corridor gives it ecological and hydrological importance. The Kanpur Barrage, Pandu River, and numerous urban nalas form a complex drainage network influencing flood dynamics, water quality, and groundwater recharge.

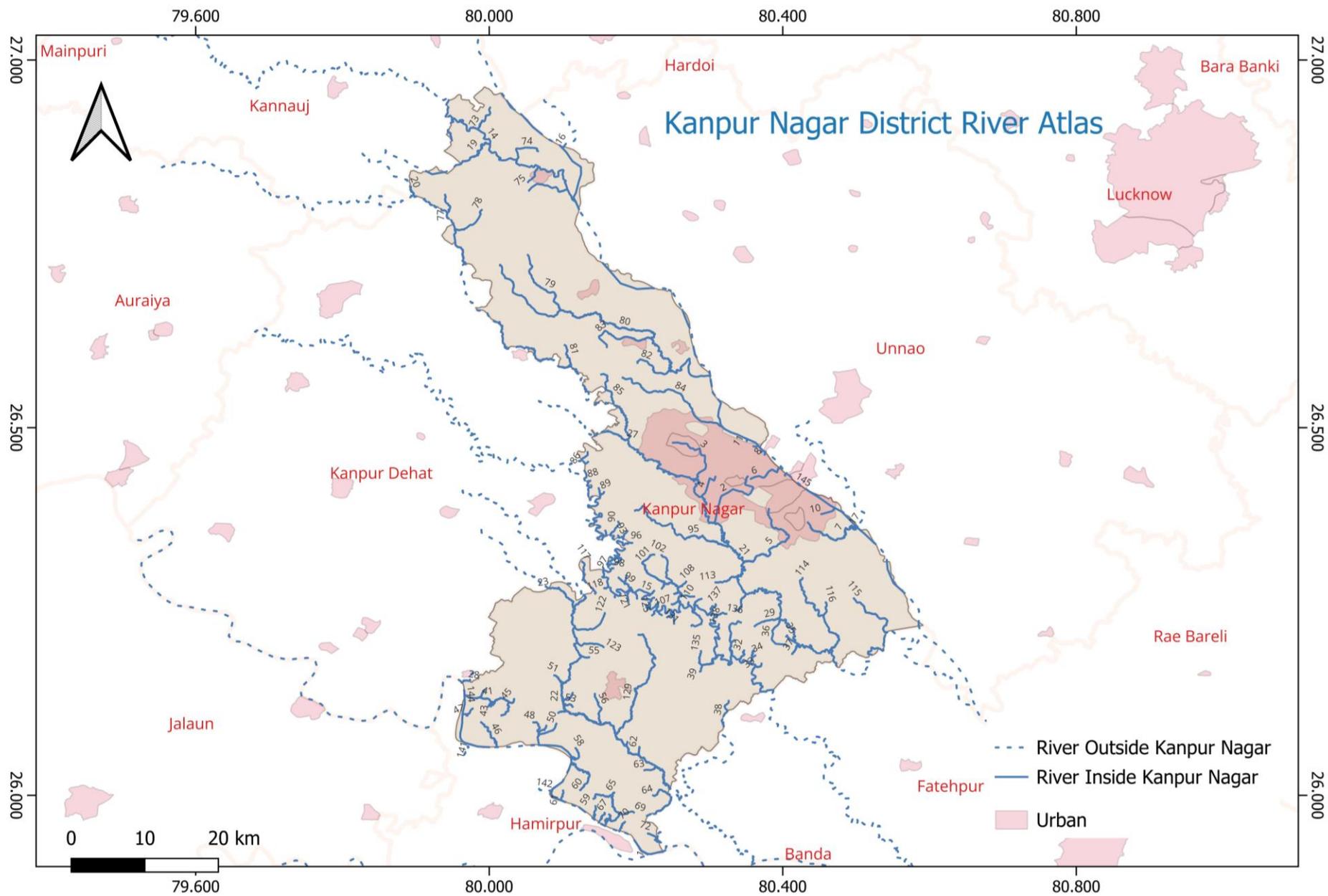
Given its economic prominence and ecological vulnerability, Kanpur Nagar plays a critical role in the Ganga River Basin’s rejuvenation efforts, making it a model district for integrated water and land management planning under the Namami Gange and District River Management Plan (DRMP) frameworks.

7. Statistical Summary of Rivers & Nalas

Category	Count	Average Length (km)	Remarks
Major Rivers	6	83.5	Ganga, Yamuna, Betwa, Rind, Isan, Pandu
Secondary Nalas	27	8.2	Includes Ganda, Bhoni, Kuir, Laukia, Nahar
Minor Nalas	112	2.1	Seasonal or urban drains
Longest River in the district	Pandu (118.14 km)		
Densest network block	Narwal		COD, Ganda, Dabka
Urban influence nalas			Associated with industrial Kanpur belt

8. Major River Profiles (Summarized)

River	Length Within the District	Remarks
Ganga River	66.78 km	Forms northern boundary; major recharge zone
Yamuna River	32.67 km	Controls groundwater discharge near southern periphery
Pandu River	118.14 km	Significant for stormwater drainage and rural irrigation; Significant pollution load
Isan River	35.9 km	Defines Bilhaur catchment, moderate pollution load
Rind River	89.1 km	Important for sediment load and floodplain aquifers
Betwa River	0.08 km	Marginal presence but hydrologically influential upstream



S No		1	2	3	4	
River Name		Betwa River	COD Nala	Ganda Nala	ICI Nala	
River Code		2AMP421R48447001	2AUP164U80100501	2AUP164U80100502	2AUP164U80100503	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	23.04209176	26.43357366	26.47964612	26.43325868	
	Longitude	77.37039049	80.35222277	80.25036702	80.30825602	
Destination	Latitude	25.92042745	26.37008494	26.42841389	26.40603998	
	Longitude	80.21590852	80.30745117	80.28365031	80.28916834	
Total Length in Kms		702.966	13.774	11.758	4.896	
For the Geographical Unit Under Consideration	Enters at	Latitude	25.91981997	26.43357366	26.47964612	26.43325868
		Longitude	80.21560774	80.35222277	80.25036702	80.30825602
	Leaves at	Latitude	25.92042745	26.37008494	26.42841389	26.40603998
		Longitude	80.21590852	80.30745117	80.28365031	80.28916834
	Length, in Kms		0.082	13.774	11.758	4.896
	Urban Centers on the bank		NULL	Kanpur, Northern Railway Colony (CT)	Armapur Estate (CT), Kanpur	Kanpur
	Villages on the Banks		Samuhi	NULL	NULL	NULL

S No		5	6	7	8	
River Name		Bhoni Nala	Dabka Nala	TBI	TBI	
River Code		2AUP164U80100504	2AUP164U80100505	2AUP164U80100506	2AUP164U80100507	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.38946722	26.43047723	26.37109265	26.46342639	
	Longitude	80.38108997	80.35661788	80.43419372	80.37534076	
Destination	Latitude	26.31714506	26.44664285	26.36374309	26.46700634	
	Longitude	80.3465476	80.3980813	80.50214121	80.37676491	
Total Length in Kms		23.1	6.624	18.529	0.511	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.38946722	26.43047723	26.37109265	26.46342639
		Longitude	80.38108997	80.35661788	80.43419372	80.37534076
	Leaves at	Latitude	26.31714506	26.44531775	26.36374309	26.46642596
		Longitude	80.3465476	80.39539319	80.50214121	80.37635316
	Length, in Kms		23.1	6.282	18.529	0.426
	Urban Centers on the bank		Kanpur	Kanpur	Kanpur	Kanpur
	Villages on the Banks		Atawa, Budhera, Jarkalan, Kudhawa, Kudhgaon, Pipar Gawan, Tirma	NULL	Bhitara, Chaudanpur, Jamda, Kanpur, Katribhitara, Katrijamda, Khujaapur, Salempur	NULL

S No		9	10	11	12	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP164U80100508	2AUP164U80100509	2AUP164U80100510	2AUP164U80100511	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.46691589	26.38254116	26.48199598	26.43505882	
	Longitude	80.37083642	80.45267699	80.35102072	80.40311547	
Destination	Latitude	26.46893071	26.39063573	26.48477044	26.43831186	
	Longitude	80.37278564	80.47132298	80.35124357	80.40550185	
Total Length in Kms		0.341	2.426	0.439	0.55	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.46691589	26.38254116	26.48199598	26.43505882
		Longitude	80.37083642	80.45267699	80.35102072	80.40311547
	Leaves at	Latitude	26.46893071	26.39063573	26.48477044	26.43756086
		Longitude	80.37278564	80.47132298	80.35124357	80.40454035
	Length, in Kms		0.341	2.426	0.439	0.408
	Urban Centers on the bank		Kanpur	Kanpur	NULL	Kanpur
	Villages on the Banks		NULL	Katridhondhi	Katri Lakhmikhera	NULL

S No		13	14	
River Name		TBI	Isan Nadi	
River Code		2AUP164U80100512	2AUP119R12267001	
River Basin		Ganga	Ganga	
Origin	Latitude	26.47470784	27.77740306	
	Longitude	80.36030712	78.29414295	
Destination	Latitude	26.47545119	26.8071336	
	Longitude	80.36672574	80.11800735	
Total Length in Kms		0.832	408.62	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.47470784	
		Longitude	80.36030712	
	Leaves at	Latitude	26.47545119	
		Longitude	80.36672574	
	Length, in Kms		0.832	35.918
	Urban Centers on the bank		Kanpur	Bilhour
Villages on the Banks		NULL	Baira Khanpur, Bakothi, Baranda, Bedipur, Bilhour Dehat, Chak Khaspur, Chaukhandi, Deoha, Dewkali Bilhour, Gadanpur Ahar, Gauri, Hilalpur, Iliyaspur, Katari Akbarpur Seng, Katari Gadanpur Ahar, Katri Mahigawa, Katri Mohiuddinpur, Kharamau, Khaspur, Mahigawa, Makanpur, Muhammadpur, Musahebpur, Paliya Bujurga, Pihani Majboot Nagar, Shahampur Kot	

S No		15	16
River Name		Rind River	TBI
River Code		2AUP119R12268601	2AUP186R14118201
River Basin		Ganga	Ganga
Origin	Latitude	27.77582046	26.94555685
	Longitude	78.24628358	80.0748081
Destination	Latitude	25.87578027	26.88022929
	Longitude	80.54688202	80.09981679
Total Length in Kms		771.316	12.586
For the Geographical Unit Under Consideration	Enters at	Latitude	26.43732519
		Longitude	80.1321867
	Leaves at	Latitude	26.14262861
		Longitude	80.38691494
	Length, in Kms		89.105
	Urban Centers on the bank		NULL
	Villages on the Banks		Akbarpur Barui, Bakauli, Barigaon, Barnao, Beri Khera, Bhisar, Binaur, Birhar, Birsinghpur, Chhapa, Chhatrapur, Chhauki, Devpura, Devsarh, Dharahara, Dharampur, Dhondhar, Etarora, Gadan Khera, Gauri Kakra, Gauri Narwal, Gosara, Gugura, Kakrahiya, Karchulipur, Keeratpur, Koratha, Kundari Champatpur, Kutia Rampur, Lalhe Pur, Maholia, Malkhanpur, Nevada Bharthuva, Padri Lalpur, Pakari, Palara, Palpur, Parauri, Raipur Kathhar, Sapai, Shambhuwa, Targaon
			Katri Nanamau

S No		17	18	19	20	
River Name		Ganda Nala	TBI	Umgara Nala	Jankhat Nala	
River Code		2AUP186R14227401	2AUP155R14726401	2AUP155R14727801	2AUP155R14730601	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.50880158	26.8907783	26.87736248	26.87267165	
	Longitude	80.43573244	79.94924805	79.85862951	79.82726413	
Destination	Latitude	26.36469523	26.92046696	26.88526576	26.81622897	
	Longitude	80.50103344	79.95226575	80.00102971	79.89724099	
Total Length in Kms		30.507	5.465	23.136	13.832	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.36566824	26.8936267	26.84824936	26.824659
		Longitude	80.50164059	79.9480929	79.91547294	79.89315472
	Leaves at	Latitude	26.36469523	26.92046696	26.88526576	26.81825274
		Longitude	80.50103344	79.95226575	80.00102971	79.89705895
	Length, in Kms		0.139	2.199	12.935	0.362
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Katribhitara, Katrijamda	Paliya Bujurga, Pihani Majboot Nagar, Raugaon	Babhiyapur, Dewkali Bilhaur, Iliyaspur, Jalalpur, Madarpur, Maidau, Sidhauri, Viharipur	Rahimpur Bishdhan

S No		21	22
River Name		Pandu River	Non River
River Code		2AUP122R14816901	2AUP156R14932501
River Basin		Ganga	Ganga
Origin	Latitude	26.85420334	26.41460415
	Longitude	79.55386678	79.96396574
Destination	Latitude	26.1224442	25.90801312
	Longitude	80.66207121	80.36263333
Total Length in Kms		271.72	149.535
For the Geographical Unit Under Consideration	Enters at	Latitude	26.81611992
		Longitude	79.89747589
	Leaves at	Latitude	26.21515561
		Longitude	80.53867052
	Length, in Kms		118.141
	Urban Centers on the bank		Kanpur
	Villages on the Banks		Akhari, Amaur, Amlipur, Atawa, Bachipur, Bahera, Bani, Basen, Bharu, Bhautikhera, Bhautipratappur, Bhati, Bikroo, Chakdwari, Chaturi Khera, Chirla, Chirli, Gangmew, Ghisuri, Harchand Khera, Jadepur Dhassa, Jhakhara, Kakawan, Kanjati, Kasigawan, Kherwa, Khujauli, Kisa Khera, Kumhau Pur, Kundauli, Kureh, Lohar Khera, Mehrauli, Munauwarpur, Bilhaur, Narwal, Nasenia, Naugawangautam, Nevada Ujagar, Nigoh, Palhepur, Pankabahadur Nagar, Para, Partappur Sarsai, Patarsa, Pauhar, Pipar Gawan, Pura Buzurg, Rahimpur Bishdhan, Raikepur, Ramaipur, Rampur Bhimsen, Rudapur, Sachauli, Sakarvan, Sawaijpur, Semarua, Seniya, Shah, Sherpur Baira, Shishupur, Surar, Taharpur, Takipur, Targaon Narwal, Tikari, Tikarmandhai, Tikra Kanpur, Tiliyaware, Tirma, Uriyara, Viran Khera
			Amauli, Anoiya, Bamburaha, Barauli, Bawan, Benda, Biriya, Chak Adampur, Chilli, Chitauli, Daulatpur, Duhroo, Gauri Ghatampur, Gujela, Herbaspur, Itaura, Kandhauri, Kathetha, Kirar, Kohra, Kurseda, Maduri, Marha, Nandna, Nimdha, Parachand, Patarsa, Radauli, Raha, Raipura, Sajeti, Seodhari, Silahuli, Targaon, Tejpur, Tilhali

S No		23	24	25	26	
River Name		Non Nala	TBI	TBI	TBI	
River Code		2AUP156R14933401	2AUP156R14940701	2AUP156R14941102	2AUP156R14941104	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.36103349	26.37415155	26.31879663	26.30968825	
	Longitude	79.98940663	80.13231148	80.16250186	80.15525169	
Destination	Latitude	26.25556912	26.36939908	26.31323392	26.30565832	
	Longitude	80.11521506	80.13907747	80.16404868	80.15694455	
Total Length in Kms		26.304	1.244	1.353	0.638	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.28184617	26.36961623	26.31850955	26.3058161
		Longitude	80.08123511	80.13925685	80.16262679	80.15674337
	Leaves at	Latitude	26.25556912	26.36939908	26.31323392	26.30565832
		Longitude	80.11521506	80.13907747	80.16404868	80.15694455
	Length, in Kms		8.35	0.034	0.9	0.03
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Aswakpur, Khempur, Musepur, Silahuli, Targaon	Dhondhar	Dharahara	Targaon

S No		27	28	
River Name		Laukia Nala	TBI	
River Code		2AUP156R14922201	2AUP156R14967401	
River Basin		Ganga	Ganga	
Origin	Latitude	26.53634083	26.16660587	
	Longitude	80.06768679	79.97846	
Destination	Latitude	26.48335307	26.15314322	
	Longitude	80.18897375	79.96253903	
Total Length in Kms		23.672	3.804	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.48867724	26.15573406
		Longitude	80.14306913	79.97154829
	Leaves at	Latitude	26.48335307	26.15359112
		Longitude	80.18897375	79.963098
	Length, in Kms		7.053	1.002
	Urban Centers on the bank		NULL	NULL
	Villages on the Banks		Dool, Jhakhara, Rautepur, Surar	Taharapur

S No		29	30	31	32	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15067602	2AUP157R15067701	2AUP157R15068101	2AUP157R15068102	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.23009421	26.21095694	26.19721356	26.19698644	
	Longitude	80.36182946	80.33446474	80.36064409	80.34730943	
Destination	Latitude	26.24057208	26.20811634	26.17943075	26.18513203	
	Longitude	80.39552166	80.32954275	80.35601396	80.3414695	
Total Length in Kms		4.935	0.755	2.681	2.187	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.23009421	26.21095694	26.19721356	26.19698644
		Longitude	80.36182946	80.33446474	80.36064409	80.34730943
	Leaves at	Latitude	26.24057208	26.20811634	26.17943075	26.18513203
		Longitude	80.39552166	80.32954275	80.35601396	80.3414695
	Length, in Kms		4.935	0.755	2.681	2.187
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Amaur, Nevada Ujagar, Sarh	Daulatpur Narwal, Modipur, Palpur	Etarora, Gopalpur Narwal, Karchulipur	Etarora, Gopalpur Narwal

S No		33	34	35	36	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15068201	2AUP157R15068202	2AUP157R15068601	2AUP157R15069301	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.17910322	26.19014114	26.21730081	26.20350695	
	Longitude	80.3711008	80.36257865	80.40599205	80.40661098	
Destination	Latitude	26.17556742	26.18884151	26.20887825	26.23903236	
	Longitude	80.36223689	80.35827489	80.41596248	80.39758244	
Total Length in Kms		1.684	0.532	2.567	7.084	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.17910322	26.19014114	26.21730081	26.20350695
		Longitude	80.3711008	80.36257865	80.40599205	80.40661098
	Leaves at	Latitude	26.17556742	26.18884151	26.20887825	26.23903236
		Longitude	80.36223689	80.35827489	80.41596248	80.39758244
	Length, in Kms		1.684	0.532	2.567	7.084
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Akbarpur Barui, Karchulipur	Karchulipur	Chirla, Mehrauli	Baijupur, Barai Garh, Chhate Ruwa, Chirla, Duharpur, Nevada Ujagar

S No		37	38	39	40	
River Name		TBI	Kuiri Nala	TBI	TBI	
River Code		2AUP157R15069801	2AUP157R15071701	2AUP157R15072801	2AUP157R15078501	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.19236326	26.12840116	26.168428	26.14326713	
	Longitude	80.41286678	80.32627616	80.28733333	79.99388691	
Destination	Latitude	26.20269923	25.99513332	26.17703077	26.13309373	
	Longitude	80.42245582	80.2596065	80.29072825	79.98777836	
Total Length in Kms		4.078	34.646	1.228	1.813	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.19236326	26.12840116	26.168428	26.14326713
		Longitude	80.41286678	80.32627616	80.28733333	79.99388691
	Leaves at	Latitude	26.20269923	26.09677709	26.17703077	26.13309373
		Longitude	80.42245582	80.31865099	80.29072825	79.98777836
	Length, in Kms		4.078	3.482	1.228	1.813
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Chaturi Khera, Chirla, Gajipur, Hajipur Kadim	Aimanpur, Bauhar, Kaitha, Kamalpur, Sulpur	Faijullapur, Gugura, Pasi Khera	Garhola Mau, Katar, Korau

S No		41	42	43	44	
River Name		Nahar Nala	TBI	TBI	TBI	
River Code		2AUP157R15078601	2AUP157R15078801	2AUP157R15078802	2AUP157R15078803	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.130938	26.12075435	26.1209962	26.12295215	
	Longitude	80.03386806	79.99859471	80.00246677	80.00530194	
Destination	Latitude	26.13558459	26.1268031	26.12678798	26.12631019	
	Longitude	79.96639251	80.00250378	80.00303344	80.00722644	
Total Length in Kms		11.666	0.976	0.805	0.554	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.130938	26.12075435	26.1209962	26.12295215
		Longitude	80.03386806	79.99859471	80.00246677	80.00530194
	Leaves at	Latitude	26.13558459	26.1268031	26.12678798	26.12631019
		Longitude	79.96639251	80.00250378	80.00303344	80.00722644
	Length, in Kms		11.666	0.976	0.805	0.554
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Badle Simnapur, Bakasara, Garhola Mau, Katar, Korau	Korau	Korau	Korau

S No		45	46	47	48	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15078804	2AUP157R15079001	2AUP157R15079002	2AUP157R15079301	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.10869807	26.09936754	26.11792479	26.09929986	
	Longitude	80.01671129	79.98889888	79.97740352	80.06024033	
Destination	Latitude	26.12785327	26.06555503	26.11055421	26.0682457	
	Longitude	80.02589901	80.01038632	79.96376545	80.06789751	
Total Length in Kms		4.053	7.019	2.638	5.442	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.10869807	26.09936754	26.11792479	26.09929986
		Longitude	80.01671129	79.98889888	79.97740352	80.06024033
	Leaves at	Latitude	26.12785327	26.06597385	26.11055421	26.06848267
		Longitude	80.02589901	80.01034998	79.96376545	80.06785538
	Length, in Kms		4.053	6.967	2.638	5.412
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Badle Simnapur, Garatha, Korau	Amiratepur, Garatha, Katar, Katari	Katar	Kutra

S No		49	50	51	52	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15079801	2AUP157R15080101	2AUP157R15080501	2AUP157R15080801	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.09472573	26.09749352	26.16305859	26.13920842	
	Longitude	80.07773847	80.09151178	80.08873605	80.11371659	
Destination	Latitude	26.08626065	26.0824608	26.15279083	26.12831331	
	Longitude	80.06753498	80.06731113	80.10109474	80.10108072	
Total Length in Kms		1.896	3.751	2.95	2.516	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.09472573	26.09749352	26.16305859	26.13920842
		Longitude	80.07773847	80.09151178	80.08873605	80.11371659
	Leaves at	Latitude	26.08626065	26.0824608	26.15279083	26.12831331
		Longitude	80.06753498	80.06731113	80.10109474	80.10108072
	Length, in Kms		1.896	3.751	2.95	2.516
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Kutra, Makrandpur Bangar	Kutra, Makrandpur Bangar, Makrandpur Kachhar, Tikri Gorwa Bangar	Benda, Chilli, Qutubuddinpur	Benda, Parachand

S No		53	54	55	56	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15081501	2AUP157R15081502	2AUP157R15081701	2AUP157R15082801	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.12046701	26.11222489	26.18780599	26.13797522	
	Longitude	80.11361724	80.09418842	80.13613492	80.14394984	
Destination	Latitude	26.12320061	26.1151844	26.18955702	26.09626629	
	Longitude	80.10290882	80.10458695	80.12448863	80.1526868	
Total Length in Kms		2.028	1.788	1.585	6.273	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.12046701	26.11222489	26.18780599	26.13797522
		Longitude	80.11361724	80.09418842	80.13613492	80.14394984
	Leaves at	Latitude	26.12320061	26.1151844	26.18955702	26.09626629
		Longitude	80.10290882	80.10458695	80.12448863	80.1526868
	Length, in Kms		2.028	1.788	1.585	6.273
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Nimdha, Sukhapur	Nimdha	Bamburaha, Laukaha	Gujela, Jaitipur, Kurseda, Mawai Bhachhan, Narainpur Ghatampur, Radauli

S No		57	58	59	60	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15085101	2AUP157R15085501	2AUP157R15086201	2AUP157R15086202	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.0725082	26.06419824	25.99546477	26.00721508	
	Longitude	80.1882973	80.11773831	80.142163	80.12397859	
Destination	Latitude	26.06775889	26.05101683	26.00018117	26.04272587	
	Longitude	80.1870493	80.11169137	80.16808251	80.11127968	
Total Length in Kms		0.742	4.881	4.439	10.37	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.0725082	26.06419824	25.99546477	26.00721508
		Longitude	80.1882973	80.11773831	80.142163	80.12397859
	Leaves at	Latitude	26.06775889	26.05101683	26.00018117	26.04272587
		Longitude	80.1870493	80.11169137	80.16808251	80.11127968
	Length, in Kms		0.742	4.881		
	Urban Centers on the bank		NULL	NULL	NULL4.439 10.37	NULL
	Villages on the Banks		Kohra	Akbarpur Birbal Bangar, Akbarpur Birbal Kachhar, Maunakhat	Anupur, Bandh, Bibipur, Rampur	Bibipur, Maunakhat

S No		61	62	63	64	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15086301	2AUP157R15087501	2AUP157R15088001	2AUP157R15088601	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.0065525	26.06560981	26.0341641	25.99998213	
	Longitude	80.10066719	80.20464464	80.21158193	80.22331825	
Destination	Latitude	25.99336663	26.0557217	26.03821897	25.99831488	
	Longitude	80.09758004	80.20370886	80.2284463	80.24823988	
Total Length in Kms		1.951	1.462	2.287	4.835	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.0065525	26.06560981	26.0341641	25.99998213
		Longitude	80.10066719	80.20464464	80.21158193	80.22331825
	Leaves at	Latitude	25.99336663	26.0557217	26.03821897	26.00153844
		Longitude	80.09758004	80.20370886	80.2284463	80.24399413
	Length, in Kms		1.951	1.462	2.287	3.608
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Dahilarsani, Hardauli	Anoia, Bawan, Chitauli	Baripal, Chitauli, Maduri	Kandhauri, Maidhari

S No		65	66	67	68	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15088701	2AUP157R15088801	2AUP157R15088802	2AUP157R15088901	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.00363828	25.97400661	25.97617025	25.98528639	
	Longitude	80.17032349	80.16342852	80.15704067	80.14484616	
Destination	Latitude	25.974906	25.96680425	25.96278258	25.9670063	
	Longitude	80.1791091	80.1648596	80.14917705	80.14335651	
Total Length in Kms		5.748	1.538	2.635	3.038	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.00363828	25.97400661	25.97617025	25.98528639
		Longitude	80.17032349	80.16342852	80.15704067	80.14484616
	Leaves at	Latitude	25.974906	25.96680425	25.96359128	25.96836907
		Longitude	80.1791091	80.1648596	80.1495927	80.1432317
	Length, in Kms		5.748	1.538	2.525	2.868
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Bandh, Rampur, Sidhaul	Rampur	Rampur	Mohta

S No		69	70	71	72	
River Name		Jehra Nala	TBI	TBI	TBI	
River Code		2AUP157R15089201	2AUP157R15089202	2AUP157R15089301	2AUP157R15089401	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	25.97684016	25.96378978	25.97215842	25.94792997	
	Longitude	80.19711075	80.18487713	80.21513596	80.21633945	
Destination	Latitude	25.9589243	25.95096378	25.99843796	25.92501029	
	Longitude	80.15720341	80.17734708	80.25909109	80.23975474	
Total Length in Kms		7.966	2.355	8.697	6.078	
For the Geographical Unit Under Consideration	Enters at	Latitude	25.97684016	25.96378978	25.97215842	25.94792997
		Longitude	80.19711075	80.18487713	80.21513596	80.21633945
	Leaves at	Latitude	25.95902927	25.95153544	25.99515038	25.93778253
		Longitude	80.15732026	80.17756949	80.24748985	80.23078101
	Length, in Kms		7.948	2.28	2.203	3.291
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Bagariya, Lahurimau Kasimpur, Rampur, Sidhaul	Lahurimau Kasimpur	Aswarmau, Kandhali, Maidhari	Samuhi

S No		73	74	75	76	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R14989901	2AUP157R14993401	2AUP157R14994401	2AUP157R14994701	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.93533317	26.87607637	26.83409995	26.82267237	
	Longitude	80.00118571	80.06635994	80.05292532	80.05431476	
Destination	Latitude	26.9055189	26.8640834	26.85351306	26.82425267	
	Longitude	79.98480993	80.03717828	80.06890369	80.10653293	
Total Length in Kms		5.607	5.842	3.612	7.456	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.93533317	26.87607637	26.83409995	26.82267237
		Longitude	80.00118571	80.06635994	80.05292532	80.05431476
	Leaves at	Latitude	26.9055189	26.8640834	26.85351306	26.82425267
		Longitude	79.98480993	80.03717828	80.06890369	80.10653293
	Length, in Kms		5.607	5.842	3.612	7.456
	Urban Centers on the bank		NULL	NULL	Bilhaur	NULL
	Villages on the Banks		Ankin, Baranda, Halpura, Mahadewa, Makanpur, Sheshpur Dharmshala	Bakothi, Bawan Jhala Muzaffarpur, Sabhiyapur, Sanjati Badshahpur	Barauli, Bilhaur Dehat, Rahmatpur	Baramau, Barauli, Bedipur, Chaubi Gahi Shikohabad, Gadanpur Ahar, Subhanpur Muradnagar

S No		77	78	79	
River Name		TBI	TBI	TBI	
River Code		2AUP157R15001701	2AUP157R15002201	2AUP157R15004401	
River Basin		Ganga	Ganga	Ganga	
Origin	Latitude	26.81676442	26.7961159	26.73481857	
	Longitude	79.93991572	79.98976496	80.05271667	
Destination	Latitude	26.79206706	26.76997575	26.65970137	
	Longitude	79.94258447	79.95311659	80.09694142	
Total Length in Kms		4.376	6.712	14.835	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.81676442	26.7961159	26.73481857
		Longitude	79.93991572	79.98976496	80.05271667
	Leaves at	Latitude	26.79229852	26.76997575	26.65970137
		Longitude	79.94257502	79.95311659	80.09694142
	Length, in Kms		4.346	6.712	14.835
	Urban Centers on the bank		NULL	NULL	NULL
	Villages on the Banks		Halamau, Kureh, Maujampur	Auro Taharpur, Kasigawan, Manawan Bilhaur	Biramau, Daha Roodrapur, Gopalpur, Harnoo, Nadeeha Khurd, Nevada Hariray, Raipur Nadeeha, Ranepur, Rani Nevada, Rawalapur, Sailha

S No			80
River Name			TBI
River Code			2AUP157R15004601
River Basin			Ganga
Origin	Latitude	26.72136052	
	Longitude	80.01485634	
Destination	Latitude	26.57022872	
	Longitude	80.30143062	
Total Length in Kms			60.079
For the Geographical Unit Under Consideration	Enters at	Latitude	26.72136052
		Longitude	80.01485634
	Leaves at	Latitude	26.57029991
		Longitude	80.30100203
	Length, in Kms		60.03
	Urban Centers on the bank		NULL
	Villages on the Banks		Ahmadpur Nadiha, Alampur, Barhat Bangar, Bhainsau, Bhaunatpur, Boodhanpur, Chaudharipur, Daha Roodrapur, Daheliya, Dariyapur Shivrajpur, Dedoopur, Edhana, Fatehpur Uttar, Gauri Abhaypur, Godra, Govindpur, Gurainy, Hingupur Bangar, Hingupur Kachhar, Indalpur Shivrajpur, Jarari, Jawasi, Kasamau, Khusal Ganj, Kunwarpur Kukari, Mahrajpur, Makarandpur Shivrajpur, Markhara, Nadeeha Bujurg, Nadeeha Dhamoo, Nonha Kalan, Nonha Narsingh, Paigupur Bangar, Prempur, Prithvi Ganj, Puraganu, Ramel Kachhar, Rampur Naruva, Rampur Sakhrej, Ratanpur, Sambharpur Misran, Shahpur Malha, Shikandpur Shivrajpur, Sudhar Deva, Taktauli, Trilokpur, Udaitpur Shivrajpur, Vishunpur

S No		81	82	83	84	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15016201	2AUP157R15024001	2AUP157R15024801	2AUP157R15026801	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.61230801	26.58824549	26.60975046	26.56814302	
	Longitude	80.10291149	80.2021499	80.16024572	80.18187227	
Destination	Latitude	26.58412855	26.57747186	26.62111107	26.50156722	
	Longitude	80.11109119	80.24928986	80.22145164	80.31732889	
Total Length in Kms		5.194	7.862	12.807	20.521	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.61230801	26.58824549	26.60975046	26.56814302
		Longitude	80.10291149	80.2021499	80.16024572	80.18187227
	Leaves at	Latitude	26.58416035	26.57747186	26.62111107	26.50156722
		Longitude	80.11109406	80.24928986	80.22145164	80.31732889
	Length, in Kms		5.19	7.862	12.807	20.521
	Urban Centers on the bank		NULL	NULL	Choubepur Kalan (CT)	Kanpur
	Villages on the Banks		Daleep Nagar, Jadepur Dhassa, Morhar, Nigoh	Amiliha, Bagdodhi Bangar, Baidani, Barhat Bangar, Devpalpur, Mahrajpur, Sandila	Bhindury, Chak Hajaratpur, Champatpur, Dedoopur, Joravarpur, Lachhimanpur Tivariyan, Mariyani, Nathoopur, Nonha Kalan, Puraganu, Vishunpur	Bagdaudhi Kachhar, Bagdodhi Bangar, Bahlolpur, Baikunh Pur, Biritiyan Bithoor, Dharampur, Gambhirpur Kachhar, Hindupur, Indalpur Jugraj, Kanpur, Katarijiyora Nawab Ganj, Kukradev, Pachor, Sambharpur, Singhpur Kachhar

S No		85	86	87	88	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15027101	2AUP157R15036401	2AUP157R15036402	2AUP157R15036501	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.57246934	26.46672969	26.45351587	26.42780412	
	Longitude	80.1527405	80.13411514	80.1347116	80.13765819	
Destination	Latitude	26.53236643	26.45207106	26.4552672	26.42635488	
	Longitude	80.16938777	80.11794396	80.12534744	80.13396782	
Total Length in Kms		7.613	3.147	1.481	0.57	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.57246934	26.46672969	26.45351587	26.42780412
		Longitude	80.1527405	80.13411514	80.1347116	80.13765819
	Leaves at	Latitude	26.5328598	26.45529798	26.45120092	26.42664464
		Longitude	80.1693115	80.12555485	80.13114199	80.13422626
	Length, in Kms		7.206	1.919	0.505	0.524
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Bani, Bansathi, Chak Bahrapur, Etra, Tatarpur	Dharmangad Pur Kanpur	Dharmangad Pur Kanpur	Bhisar, Kataraghan Shyam

S No		89	90	91	92	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15037001	2AUP157R15037002	2AUP157R15037003	2AUP157R15037301	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.41237683	26.37204671	26.41767374	26.35989174	
	Longitude	80.1563497	80.17577911	80.14922749	80.15823219	
Destination	Latitude	26.41000571	26.35328293	26.40533832	26.35311822	
	Longitude	80.15127341	80.16588397	80.15074515	80.15994538	
Total Length in Kms		0.756	3.183	1.804	0.906	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.41237683	26.37204671	26.41767374	26.35989174
		Longitude	80.1563497	80.17577911	80.14922749	80.15823219
	Leaves at	Latitude	26.41000571	26.3533355	26.40564836	26.35341071
		Longitude	80.15127341	80.16578138	80.15088745	80.15988704
	Length, in Kms		0.756	3.169	1.762	0.869
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Binaur	Aiti, Binaur, Udayapur	Binaur	Raipur Kathhar

S No		93	94	95	96	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15037501	2AUP157R15037601	2AUP157R15037701	2AUP157R15037901	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.35323762	26.35944045	26.38728966	26.34331025	
	Longitude	80.17565834	80.18842768	80.19876651	80.19482325	
Destination	Latitude	26.35033725	26.34821402	26.33903815	26.34401956	
	Longitude	80.17672126	80.18255768	80.32665438	80.18941316	
Total Length in Kms		0.428	1.99	24.595	0.654	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.35323762	26.35944045	26.38728966	26.34331025
		Longitude	80.17565834	80.18842768	80.19876651	80.19482325
	Leaves at	Latitude	26.35052922	26.34848582	26.33903815	26.3439089
		Longitude	80.17672178	80.18280794	80.32665438	80.18975547
	Length, in Kms		0.404	1.946	24.595	0.613
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Lalhe Pur	Lalhe Pur, Udayapur	Bhairam Pur, Bharu, Itara, Jahanpur, Jamoo, Kumhau Pur, Magrasa, Ramaipur, Rautara, Saiyangojha, Senpashchim Para, Senpurab Para, Sidhi, Sona	Sapai

S No		97	98	99	100	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15039901	2AUP157R15040001	2AUP157R15040101	2AUP157R15040102	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.31789869	26.30869447	26.29607366	26.29858093	
	Longitude	80.1655399	80.16907814	80.17641536	80.18669427	
Destination	Latitude	26.32117168	26.30755483	26.2803629	26.29043536	
	Longitude	80.16900924	80.1650516	80.1930334	80.18469722	
Total Length in Kms		0.656	0.546	3.663	1.125	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.31789869	26.30869447	26.29607366	26.29858093
		Longitude	80.1655399	80.16907814	80.17641536	80.18669427
	Leaves at	Latitude	26.32112906	26.30755267	26.2803629	26.29043536
		Longitude	80.16898744	80.16514816	80.1930334	80.18469722
	Length, in Kms		0.65	0.535	3.663	1.125
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Dharahara	Kundari Champatpur	Bakauli, Daheliujagar, Kakrahiya	Daheliujagar

S No		101	102	103	104	
River Name		Kharwa Nala	TBI	TBI	TBI	
River Code		2AUP157R15040401	2AUP157R15040402	2AUP157R15040501	2AUP157R15040502	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.32727815	26.32646564	26.28121496	26.27803872	
	Longitude	80.22492033	80.2348253	80.23529047	80.22473136	
Destination	Latitude	26.25951533	26.28935089	26.28813585	26.27305492	
	Longitude	80.26099796	80.24799526	80.2391416	80.21942394	
Total Length in Kms		19.876	5.938	1.152	1.107	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.32727815	26.32646564	26.28121496	26.27803872
		Longitude	80.22492033	80.2348253	80.23529047	80.22473136
	Leaves at	Latitude	26.25951533	26.28935089	26.28813585	26.27305492
		Longitude	80.26099796	80.24799526	80.2391416	80.21942394
	Length, in Kms		19.876	5.938	1.152	1.107
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Chaurai, Chhauki, Daheliujagar, Haraha, Kathara, Katheruwa, Padri Lalpur, Shambhuwa	Kathara, Katheruwa	Kathara, Khadesar	Chhapa, Kakrahiya, Kathara, Khadesar

S No		105	106	107	108	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15040601	2AUP157R15040602	2AUP157R15040603	2AUP157R15040701	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.26246158	26.26875727	26.25985856	26.29070438	
	Longitude	80.23081394	80.22464729	80.2488133	80.26831105	
Destination	Latitude	26.25977869	26.265808	26.26364853	26.28323391	
	Longitude	80.22868555	80.22072434	80.25759129	80.25734898	
Total Length in Kms		0.56	0.629	1.218	1.82	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.26246158	26.26875727	26.25985856	26.29070438
		Longitude	80.23081394	80.22464729	80.2488133	80.26831105
	Leaves at	Latitude	26.25977869	26.265808	26.26364853	26.28323391
		Longitude	80.22868555	80.22072434	80.25759129	80.25734898
	Length, in Kms		0.56	0.629	1.218	1.82
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Dharampur, Shambhuwa	Chhapa, Shambhuwa	Padri Lalpur, Shambhuwa	Haraha, Katheruwa

S No		109	110	111	112	
River Name		TBI	TBI	TBI	Matru Nala	
River Code		2AUP157R15041201	2AUP157R15041301	2AUP157R15041302	2AUP157R15041601	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.27409791	26.26241959	26.27039896	26.26725379	
	Longitude	80.25223532	80.27164935	80.27927854	80.28925231	
Destination	Latitude	26.27639165	26.25824795	26.27251077	26.2570557	
	Longitude	80.25813093	80.27220645	80.2621654	80.28040324	
Total Length in Kms		0.957	0.625	2.07	2.461	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.27409791	26.26241959	26.27039896	26.26725379
		Longitude	80.25223532	80.27164935	80.27927854	80.28925231
	Leaves at	Latitude	26.27639165	26.25824795	26.27251077	26.2570557
		Longitude	80.25813093	80.27220645	80.2621654	80.28040324
	Length, in Kms		0.957	0.625	2.07	2.461
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Haraha	Chhauki	Chaurai, Chhauki	Birsinghpur, Chhatrapur, Chhauki, Surauli

S No		113	114	115	116	
River Name		TBI	TBI	TBI	Paghia Nala	
River Code		2AUP157R15046201	2AUP157R15048501	2AUP157R15052701	2AUP157R15054101	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.28962871	26.29543451	26.2678839	26.26237242	
	Longitude	80.30833603	80.42696389	80.49691442	80.45859153	
Destination	Latitude	26.29646015	26.24460613	26.22161475	26.19846431	
	Longitude	80.33885482	80.45575388	80.54240578	80.46544991	
Total Length in Kms		5.707	10.453	11.296	12.014	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.28962871	26.29543451	26.2678839	26.26237242
		Longitude	80.30833603	80.42696389	80.49691442	80.45859153
	Leaves at	Latitude	26.29646015	26.24460613	26.22165617	26.19846431
		Longitude	80.33885482	80.45575388	80.54213997	80.46544991
	Length, in Kms		5.707	10.453		
	Urban Centers on the bank		NULL	NULL	11.265 12.014 NULL	NULL
	Villages on the Banks		Arajimajhawan, Chak Kulhauri, Chakdwari, Hardauli, Kulhauri, Majhawan, Noorpur, Tikarmandhai	Baradhari, Bausar, Narwal, Newadabausar, Semarjhal, Tauns, Tharepah, Tikra Chauhan, Tikrakanh	Maholi, Purwamir, Sarsaul, Tiwaripur Salempur	Dipapur, Newadabausar, Raipurnarwal, Shishupur, Tharepah, Tikrakanh

S No		117	118	119	120	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15060901	2AUP157R15060902	2AUP157R15060903	2AUP157R15060904	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.31772768	26.28172008	26.29697172	26.27440136	
	Longitude	80.12666473	80.15682035	80.15421264	80.14440666	
Destination	Latitude	26.28700599	26.28330766	26.29667335	26.29272029	
	Longitude	80.1193523	80.16275824	80.15674323	80.12716222	
Total Length in Kms		5.128	0.873	0.37	3.695	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.31772768	26.28172008	26.29697172	26.27440136
		Longitude	80.12666473	80.15682035	80.15421264	80.14440666
	Leaves at	Latitude	26.2958693	26.28330766	26.29667335	26.28016258
		Longitude	80.1286691	80.16275824	80.15674323	80.14150249
	Length, in Kms		2.574	0.873	0.37	0.913
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Targaon	Barnao, Targaon	Targaon	Targaon

S No		121	122	123	124	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15061001	2AUP157R15061101	2AUP157R15061501	2AUP157R15061801	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.26945525	26.24779774	26.20175151	26.26278763	
	Longitude	80.17119033	80.1575027	80.15574028	80.18961984	
Destination	Latitude	26.27282553	26.22781423	26.20726463	26.277196	
	Longitude	80.17283813	80.1162718	80.12012575	80.19528245	
Total Length in Kms		0.546	6.677	4.903	2.733	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.26945525	26.24779774	26.20175151	26.26278763
		Longitude	80.17119033	80.1575027	80.15574028	80.18961984
	Leaves at	Latitude	26.27282553	26.22781423	26.20726463	26.277196
		Longitude	80.17283813	80.1162718	80.12012575	80.19528245
	Length, in Kms		0.546	6.677	4.903	2.733
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Barnao	Kathetha, Patarsa, Tejpur, Tilsarha	Balaha Para Kalan, Balaha Para Khurd, Barauli, Ratanpur	Bakauli, Kakrahiya

S No		125	126	127	128	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15061802	2AUP157R15061901	2AUP157R15061902	2AUP157R15061903	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.26762689	26.2560272	26.25260746	26.25895056	
	Longitude	80.20147023	80.21420045	80.21573358	80.21363764	
Destination	Latitude	26.2760505	26.25558981	26.25510572	26.25552251	
	Longitude	80.19863753	80.21722371	80.21826021	80.21898999	
Total Length in Kms		1.218	0.344	0.423	0.859	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.26762689	26.2560272	26.25260746	26.25895056
		Longitude	80.20147023	80.21420045	80.21573358	80.21363764
	Leaves at	Latitude	26.2760505	26.25558981	26.25510572	26.25552251
		Longitude	80.19863753	80.21722371	80.21826021	80.21898999
	Length, in Kms		1.218	0.344	0.423	0.859
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Kakrahiya	Chhapa	Chhapa	Chhapa

S No		129	130	131	132	
River Name		TBI	TBI	TBI	TBI	
River Code		2AUP157R15062801	2AUP157R15063001	2AUP157R15063101	2AUP157R15063102	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.21839831	26.24491058	26.24518849	26.23366721	
	Longitude	80.2035275	80.22206566	80.23501068	80.25191725	
Destination	Latitude	26.08364954	26.25228931	26.24969273	26.24496348	
	Longitude	80.17216057	80.22850312	80.2303816	80.25036602	
Total Length in Kms		29.642	1.349	0.811	1.78	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.21839831	26.24491058	26.24518849	26.23366721
		Longitude	80.2035275	80.22206566	80.23501068	80.25191725
	Leaves at	Latitude	26.08364954	26.25228931	26.24969273	26.24496348
		Longitude	80.17216057	80.22850312	80.2303816	80.25036602
	Length, in Kms		29.642	1.349	0.811	1.78
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Bahrauli, Banhari, Chhanja, Duhroo, Gopalpur Ghatampur, Guchchupur, Hirni, Kirar, Koriyan, Kumhediya, Mirjapur, Paras, Raipur, Ramsari	Dharampur	Padri Lalpur, Shambhuwa	Padri Lalpur

S No		133	134	135	136	
River Name		TBI	TBI	Kalwa Nala	TBI	
River Code		2AUP157R15063103	2AUP157R15064901	2AUP157R15065501	2AUP157R15066201	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.2422756	26.23067461	26.1961224	26.24693832	
	Longitude	80.24253201	80.27569583	80.28861632	80.32315532	
Destination	Latitude	26.2444342	26.2510565	26.18959258	26.24488539	
	Longitude	80.24798287	80.27790891	80.31093495	80.30921555	
Total Length in Kms		0.772	5.443	9.883	2.237	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.2422756	26.23067461	26.1961224	26.24693832
		Longitude	80.24253201	80.27569583	80.28861632	80.32315532
	Leaves at	Latitude	26.2444342	26.2510565	26.18959258	26.24488539
		Longitude	80.24798287	80.27790891	80.31093495	80.30921555
	Length, in Kms		0.772	5.443	9.883	2.237
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Padri Lalpur	Birsinghpur, Rawatpur	Gugura, Palpur, Pasema, Tiwaripur Sarh	Behta Gambhirpur, Gauri Kakra, Kutia Rampur

S No		137	138	139	140	
River Name		TBI	TBI	TBI	Gadraha Nala	
River Code		2AUP157R15066301	2AUP157R15066601	2AUP157R15066701	2AUP157R15067601	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.2596733	26.23256802	26.25198553	26.23515222	
	Longitude	80.30848265	80.31307237	80.3357913	80.34285056	
Destination	Latitude	26.24745745	26.22860205	26.27378995	26.18929405	
	Longitude	80.30017766	80.31203551	80.35035743	80.33037582	
Total Length in Kms		3.001	0.517	4.992	11.02	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.2596733	26.23256802	26.25198553	26.23515222
		Longitude	80.30848265	80.31307237	80.3357913	80.34285056
	Leaves at	Latitude	26.24745745	26.22860205	26.27378995	26.18929405
		Longitude	80.30017766	80.31203551	80.35035743	80.33037582
	Length, in Kms		3.001	0.517	4.992	11.02
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Devsarh, Dharampur Narwal, Kaji Khera, Kutia Rampur	Gauri Kakra	Kundauli, Lachhman Khera, Rajepur, Sarh	Daulatpur Narwal, Etarora, Koratha, Lachhman Khera, Modipur, Palpur, Sarh

S No		141	142	143	144	
River Name		TBI	TBI	TBI	Yamuna River	
River Code		2AUP149R15363101	2AUP149R15365401	2AUP142R15642701	2AUK057R04046722	
River Basin		Ganga	Ganga	Ganga	Ganga	
Origin	Latitude	26.05531534	26.00894386	25.94971149	31.02644107	
	Longitude	79.96599187	80.06801393	80.23359195	78.45282935	
Destination	Latitude	26.0691601	26.00586395	25.94246666	25.42354761	
	Longitude	79.97487402	80.08547313	80.2276846	81.88857979	
Total Length in Kms		3.016	2.271	1.448	1658.844	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.06907703	26.00617474	25.94424824	26.14243971
		Longitude	79.97484926	80.08365833	80.22966101	79.96590217
	Leaves at	Latitude	26.0691601	26.00586395	25.94246666	25.92398361
		Longitude	79.97487402	80.08547313	80.2276846	80.23669582
	Length, in Kms		0.011	0.206	0.329	32.672
	Urban Centers on the bank		NULL	NULL	NULL	NULL
	Villages on the Banks		Katari	Hardauli	Samuhi	Akbarpur Birbal Kachhar, Bibipur, Dahilar Awwal, Dahilarsani, Hardauli, Katar, Katari, Kutra, Makrandpur Kachhar, Maunakhat, Rampur, Samuhi

S No		145	
River Name		Ganga River	
River Code		2AUK055R04312301	
River Basin		Ganga	
Origin	Latitude	30.1452951	
	Longitude	78.5975548	
Destination	Latitude	24.50698727	
	Longitude	88.08949771	
Total Length in Kms		2099.528	
For the Geographical Unit Under Consideration	Enters at	Latitude	26.94437492
		Longitude	80.02435285
	Leaves at	Latitude	26.23017979
		Longitude	80.58548272
	Length, in Kms		66.784
	Urban Centers on the bank		Kanpur
	Villages on the Banks		Atva, Bagaha, Baruva Kalan, Bipausi, Dhondhi, Domanpur, Hindupur, Katari Akbarpur Seng, Katari Bajidpur, Katari Gadanpur Ahar, Katari Khwajipur, Katari Rajepur Shahi, Katariyora Nawab Ganj, Katarikanpur Kohna, Kataritari Pathakpur, Katri Allipur Bhaseni, Katri Anakin, Katri Baruva Kalan, Katri Behrampur, Katri Behta, Katri Hashimpur, Katri Lakhmikhara, Katri Mahigawa, Katri Nagapur, Katri Nanamau, Katri Panka, Katri Sabhiyapur, Katri Salempur Bithoor, Katri Sanjati Badshahpur, Katri Sarayganj, Katri Shahpur Urf Pardumangarhi, Katri Shankar Pur Sarai, Katribagaha, Katribhitara, Katribipavsi, Katridhondhi, Katrijamda, Katrisaidalipur, Katriumarna, Khyora Katari, Nagapur, Pratappur Hari, Prithvi Ganj, Ramel Kachhar, Saraygang





cGanga