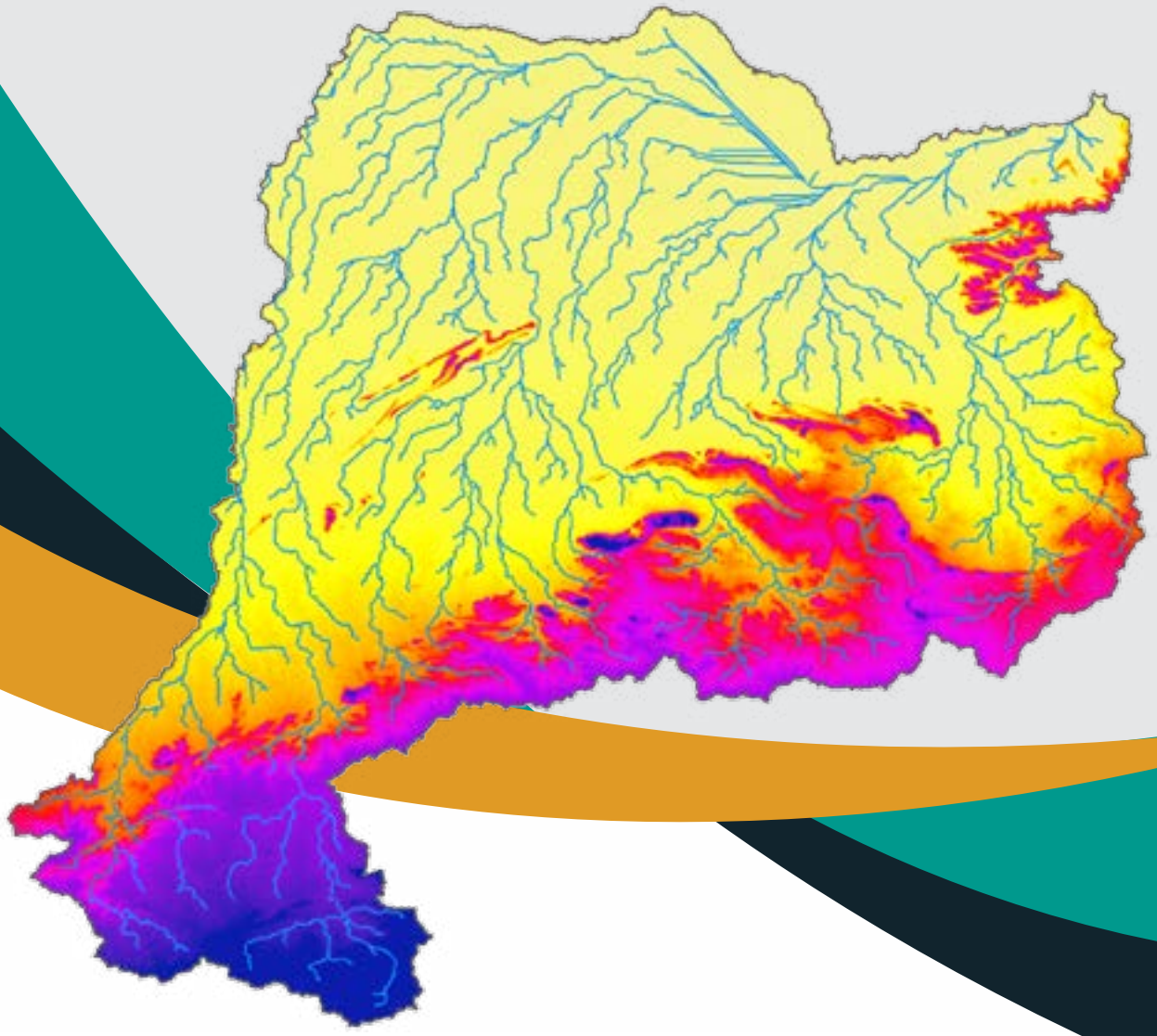
National Mission for Clean Ganga
Ministry of Jal Shakti
Department of Water Resources, River Development & Ganga Rejuvenation
Government of India



KIUL RIVER BASIN ATLAS

Version - 1

November 2023

cGanga
Centre for Ganga River Basin Management and Studies

ABOUT US

The field of river science. In the name eGanga, the word Ganga symbolizes culture of rivers. The center for Ganga River Basin Management and Studies (eGanga) is a Brain Trust devoted to River Science and River Basin Management. The center is committed to restoring and conserving rivers and water resources through collation of information and knowledge, research and development, planning, monitoring, education, advocacy, and engagement with stakeholders. Established in 2016 at IIT Kanpur, it serves as a knowledge wing of central and state governments in India on all the aspects related to river conservation, rejuvenation, and management of the river basin. It strives to serve as a center of excellence for data collection, creation, and dissemination of knowledge. The center has representation from most leading science and technology institutes in the country. eGanga's one of the major tasks is to serve as a think tank in the implementation and dynamic evaluation of the Ganga River Basin Management Plan (GRBMP) prepared by a consortium of 7 IITs in 2015. As a knowledge creator and disseminator eGanga has developed Environment Technology Programme (ETV) for introducing new technologies, innovations, and solutions.

One of the core activities of eGanga is to interphase with finance, economics and legal industry to robust techno-commercial models. Other core activities are the development of improved monitoring protocols and the creation of expertise in the area of river health.

eGanga is objectifying as a **Global "Gurukul" of river science**. It is conceptualized to be a world leader in the field of river science. In the name eGanga, the word Ganga symbolizes culture of rivers.

The far reaching goal of eGanga is to develop high-end research-based strategies and practices from which not only India but all the rivers of the world can be benefited and the legacy of safe and enhanced water resources can be passed on to the next generations.

KIUL RIVER
BASIN ATLAS

NOVEMBER 2023

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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 document is a collective effort of a number of experts, institutions and organisations, some who had been associated with preparing the Ganga River Basin Management Plan (GRBMP) submitted to the Government of India in 2015, and others who joined later with their own independent expertise and enthusiasm. Contributions to the photographs and images for this document by individuals are gratefully acknowledged.

Suggested Citation

Kiul River Basin Atlas by cGanga and NMCG.

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PREFACE

The Centre for Ganga River Basin Management and Studies ("cGanga") was established in the year 2016 as a comprehensive think-tank for river restoration and to assist the National Mission for Clean Ganga (NMCG), Jal Shakti Ministry, GoI, for "continual scientific support in the implementation and dynamic evolution of the Ganga River Basin Management Plan" for conservation of National River Ganga. In keeping with this goal, cGanga has been actively developing detailed knowledge capsules, tools and procedures to enable comprehensive and early rejuvenation of the Ganga River network across the whole basin. While a river basin approach is essential for analyzing and comprehending the Ganga river's status and needs to regain her wholesomeness, the implementation strategies of the required interventions must keep in mind the role and individuality of each State. Thus, it is necessary to focus on state-level sub-strategies of natural resource management for holistic revival of River Ganga.

The present document attempts to provide a comprehensive picture of the river network in the Kiul Basin of State of Bihar. This Atlas was created entirely by cGanga, with original mapping of all identifiable rivers, and with selective additional information culled from different sources for completeness. Many of the rivers and maps given here are not readily available elsewhere, and we expect them to prove useful to the many Central, State, and other organizations engaged in the river, water or natural resource management in the Bihar.

In preparing this document dedicated members of cGanga spent a lot of time in diligently studying, analysing, acquiring and compiling diverse information from diverse sources. Many people and organisations outside cGanga also helped in its preparation, which aided in its comprehensiveness. We are grateful to one and all of them.

VINOD TARE
Professor & Founding Head, cGanga
IIT Kanpur

CONTENTS

ACRONYMS AND ABBREVIATIONS

cGanga	:	Centre for Ganga River Basin Management and Studies
Cumec	:	Cubic meter per second
CWC	:	Central Water Commission
DEM	:	Digital Elevation Model
GIS	:	Geographic Information System
GRBMP	:	Ganga River Basin Management Plan
Km	:	Kilometer
LULC	:	Land Use/ Land Cover
M	:	Meter
mm	:	millimeter
SoI	:	Survey of India
Sq. Km	:	Square Kilometer
SWAT	:	Soil & Water Assessment Tool

INTRODUCTION

Bihar has a total area of 116,469 sq km, which is about 3.54 % of the total area of the country and 13.52% area of the Indian part of the Ganga Basin. Bihar is divided by the river Ganges into two which flows from west to east. During her course in Bihar many tributaries such as Gandak, Budhi Gandak, Kosi, Sone, Punpun, Kiul and Ghaghara, which flow through Bihar, join the river, both from the left as well as from the right.

The Kiul River, flowing through the states of Bihar and Jharkhand in India, is a tributary of the Ganges. Originating in the Jamui district of Bihar, it passes through various regions before merging into the Ganges River. The Kiul River plays a crucial role in the local ecology and supports the surrounding communities through its water resources.

The present volume is an attempt to map the rich river network of Kiul basin in as fine a detail as possible. Much of the information contained in this River Atlas is created from available earth images with appropriate data and image processing tools and software on the GIS platform. Naturally, there may be shortcomings in some of the maps herein, including missing small streams, which can be expected to be duly refined and included in later versions. In the meanwhile, it is hoped that this Atlas will provide a useful window to the Kiul River resources.

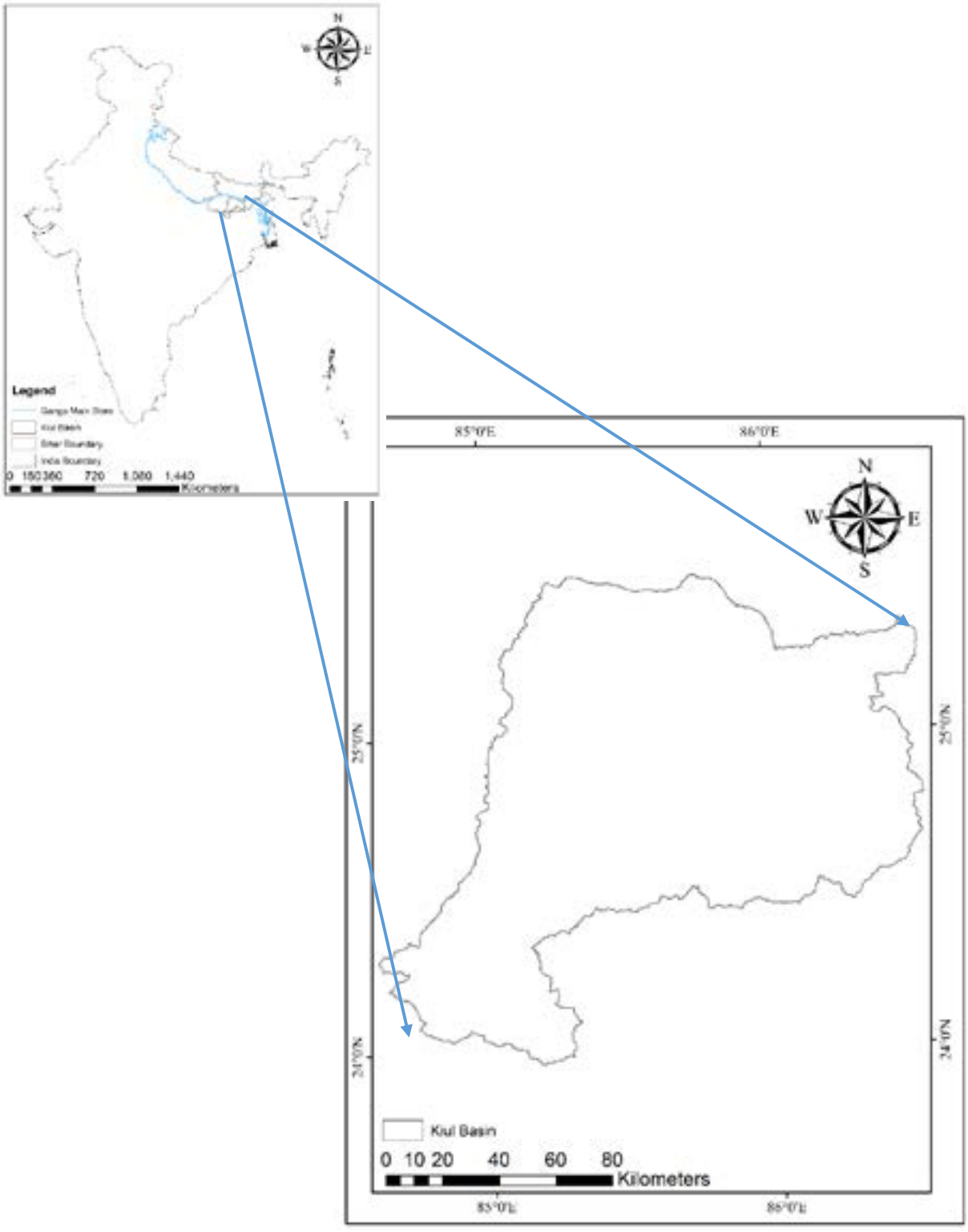


Figure: Location of Kiul Basin

KIUL BASIN: SALIENT FEATURES

S No	Particulars	Details
1	State Extent	Latitude: 24° 0' & 25° 31' N and Longitude: 84° 30' & 86° 40' E
2	Total Geographical Area (sq. km)	17,680.80
3	Forest Area	--
4	Area contributing to Ganga Basin (sq km)	17,680.80
5	Percentage of the Ganga Basin Area (India)	2.05
6	Districts (Census 2011)	16
7	Towns (Census 2011)	(Class I: 02; Class II: 07; Class III: 12; Class IV: ; Class V: ; Class VI:)
8	Total Population (Census 2011)	--
9	% Population in Ganga Basin	--
10	Gram Panchayats	--
11	Census Villages (Census 2011)	7,603
12	Average Annual Rainfall (mm)	1000
13	Average Temperature Range (oC)	5. 0 – 44.0
14	Major Rivers	Mohana-Falgu, Nakti, Garkhe, Barnar, Ulai, Lilajan, Sakri, Korihari, Some, Paimar
15	Number of Major Basins	05
16	Number of Water Resources Structures	(Dams: 42, Barrages: 02, Weir: 19, Anicuts, Lifts, Power houses)
17	Number of Ground Water Observation wells	Level: 194 Quality: 117

KIUL BASIN: RIVERS TRAVERSING THROUGH VARIOUS DISTRICTS

S No	State	District	Area (Sq. Km)	Population (Census 2011)	Growth Rate (%)	Density	Rivers
1	Bihar	Gaya	4,976	43,91,418	26.08	883	Arbarwa Drain, Balwa, Bhura Drain, Chaudi Drain, Danra, Dhadhar, Goari Drain, Gokhula,Gulshakri, Hisir, Khalrig arha Drain, Langura Drain, Lilajan, Mohana, Jalwar, Mohana, Falgu, Natane Drain, Nonai -Mohana Drain, Paimar, Pathalgaiha Drain, Pichhri Drain.
2		Jamui	3098	17,60,405	25.54	568	Anjan, Arghuti, Asoti, Badua, Baghail, Bandarbari, Bankjor Drain, Bhorlwajor Drain, Bhurha Drain, Bunbuni, Chilka Drain, Churiya, Bajan, Dudharoa, Gobra, Jangpal Drain, Kataria, Chandan, Kharwar, Kuil, Nagi, Nakti, Nata, Perna, Suknar, Sundri Drain, Ulai.
3		Jehnabad	931	11,25,313	21.34	1209	Bhuthi, Bhuthin, Dhowa, Phalgu, Garbhi, Mohana,-Jalwar, Mohana, Falgu, Nonai, Mohana Drain.
4		Lakhisarai	1228	1,000,912	24.74	815	Anjan, Bandar Drain, Anjan, Bandar Drain, Garkhe, Khalkhala, Korihari, Kuil, Mohana, Falgu, Morwe, Nata.
5		Nalanda	2355	28,77,653	21.18	1222	Bari, Bhutahi, Bhuthi, Bhuthin, Chiraia, Dhanahiya, Dhowa, Phalgu, Kumhari, Marhhi Drain, Mohana, Jalwar, Mohana, Falgu, Naunia Drain, Nonai, Mohana Drain, Paimar, Panchane, Sakri, Sonr, Sudahi.
6		Nawada	2494	22,19,146	22.49	890	Baghail, Chalki, Dhadhar, Korihari, Nata, Panchane, Sakri, Sakri.
7		Patna	3202	58,38,465	22.34	1823	Bari, Bhutahi, Bhuthin, Dhanahiya, Dhowa, Phalgu, Goga, Marhhi Drain, Mohana, Falgu, Nonai, Mohana Drain, Panchane, Sakri, Sonr.

S No	State	District	Area (Sq. Km)	Population (Census 2011)	Growth Rate (%)	Density	Rivers
8	Jhar-khand	Chatra	3,718	1,042,886	28.98	280	Amin, Amjhar, Bagjobra, Baksa, Balwa, Barki, Berio Drain, Bhaturki Drain, Bhurahi, Chakora, Chalki, Charha Drain, Chhotnar Drain, Kathka Drain, Chilka Drain, Chunthi Drain, Damohari Drain, Danra, Dhab, Budh River, Dhadhar, Dumhan, Gahri, Garhi, Garhronwa Dorha Drain, Garo Drain, Ghaghra, Goari Drain, Golai, Gordhua Drain,Gunjrar Drain, Hardiya Drain, Jam Hiru, Jamanghati Drain, Jatha Drain, Kadra, Kadru Drain, Kamaldaha Drain, Kewla Drain, Kotahi Drain, Kuil, Langura Drain, Likhar Drain, Lilajan, Lora , Lukrahi Drain, Mahuliya, Majhesawadah Drain, Malu, Marabgara Drain, Marghati Drain, Mohana, Falgu, Naraina Drain, Niri, Pachwahini Drain, Panighat Drain, Perna, Pichhri Drain, Pipradah, Pipradan, Piprahi, Sakri, Path, Sinduri, Sonadah Drain, Sukhnadiya, Sundri Drain.
9		Hazaribagh	3,555	17,34,495	25.75	488	Baksa River, Balwa River, Dhadhar River, Goari Drain, Kadru Drain ,Kamaldaha Drain ,Mohana River /Falgu River, Niri River ,Pichhri Drain, Piprahi River,
10		Giridih	4,962	24,45,474	28.33	493	Bagjobra, Barki, Barki, Chalki, Charha Drain, Chhotnar Drain, Kathka Drain, Chilka Drain, Chunthi Drain, Garhi, Ghaghra, Gordhua Drain, Jamuniadah Drain, Kuil, Likhar Drain, Mahuliya, Naraina Drain, Perna, Sakri, Sundri Drain.
11		Koderma	3,555	7,16,259	32.59	282	Barki, Bhaturki Drain, Chalki, Chhotnar Drain, Kathka Drain, Chunthi Drain, Dhadhar,, Ghaghra, Jamuniadah Drain, Mahuliya, Pipradah, Sakri, Sakri.

KIUL: MAJOR DAMS ON THE RIVER AND HER TRIBUTARIES

S. No	Districts	Name	River	Status	Type	Length (m)	Max height above foundation	Year start	Year comp	Purpose
1	Jamui	Ajan Dam	Ajan	Completed	TE	518.3	39.02		1989	Irrigation
2	Jamui	Amrity Dam		Completed	TE	166.16	16.65		1965	Irrigation
4	Jamui	Barnar Dam		Under Construction	PG	282.7	76.75		1984	Irrigation
5	Lakhisarai	Baskund Dam	Baskund	Completed	TE	67.07	17.68		1984	Irrigation
12	Nawada	Job Dam		Completed	TE	1616	18.9		1977	Irrigation
13	Jamui	Kailash Ghati Dam	Kailash Ghati	Completed	TE	183	25.9		1980	Irrigation
16	Nawada	Kolmahadeo Dam	Kolmahadev (bhusari)	Completed	TE	157	19.2		1966	Irrigation
17	Lakhisarai	Morwy Dam	Morwe	Completed	TE	533.53	25.56		1960	Irrigation
18	Jamui	Nagi Dam	Nagi	Completed	TE	1884	113.5		1958	Irrigation
19	Jamui	Nakti (Bihar) Dam	Nakti	Completed	TE	990.85	23.61		1980	Irrigation
21	Nawada	Phulwaria Dam	Tilaiya	Completed	TE	1135	25.66		1988	Irrigation
23	Jamui	Srikhandi Dam	Srikhandi	Completed	TE	205.8	16.65		1965	Irrigation
24	Jamui	Upper Kiul Dam	Kiul	Completed	TE	3673	30.48		2004	Irrigation
25	Chatra	Baksa/ Buksa Dam	Baksa	Completed	Earth-en	2667.67	18.78		1982	Irrigation
26	Chatra	Dhulki Dam	Lilajan	Completed	Earth-en	1067	16.76		1971	Irrigation
27	Chatra	Garhi Dam	Garhi (Da-modar)	Under Construction	Earth-en	1830	22.33			Irrigation
28	Chatra	Hiru Dam	Hiroo	Completed	Earth-en	1982	18.3		1982	Irrigation
29	Chatra	Sudhari Nala Dam	Sudhari nala	Under Construction	Earth-en	396.34	16.46			Irrigation

S. No	Districts	Name	River	Status	Type	Length (m)	Max height above foundation	Year start	Year comp	Purpose
30	Hazaribagh	Anjanwa Dam	Anjanwa	Completed	Earth-en	1341.46	16.25		1981	Irrigation
32	Hazaribagh	Agrawa/ Konar	Agrawa/ Konar	Completed	Earth-en	609.26	15.85		1978	Irrigation
33	Hazaribagh	Barhi Dam	Mahuaghat	Completed	Earth-en	1057.66	12.8		1981	Irrigation
34	Hazaribagh	Ghaghra Dam	Ghaghra	Completed	Earth-en / Grav-ity & Ma-sonry	94.51	19.82		1957	Irrigation
35	Hazaribagh	Gonda Dam	Gonda	Completed	Earth-en	1006.09	13.41		1954	Irrigation
36	Hazaribagh	Jamunia Dam	Jamunia	Completed	Earth-en	1067.1	17.38		1954	Irrigation
37	Hazaribagh	Konar Dam	Konar	Completed	Earth-en / Grav-ity & Ma-sonry	3806.65	48.77		1955	Irrigation
38	Hazaribagh	Lotia Dam	Chondhi	Completed	Earth-en	762.2	19.74		1978	Irrigation
39	Hazaribagh	Salaiya Dam	Barsoti	Under Construction	Earth-en	990	18.6			Irrigation
40	Giridih	Panchkhero Dam	Panchkhero	Under Construction	Earth-en	2182	19.33			Irrigation
41	Kodarma	Kesho Dam	Kesho	Under Construction	Earth-en	2052	14.57			Irrigation
42	Kodarma	Tilaiya Dam	Barakar	Completed	Grav-ity & Ma-sonry	366	29.7		1953	Hydro-electric,Ir-rigation

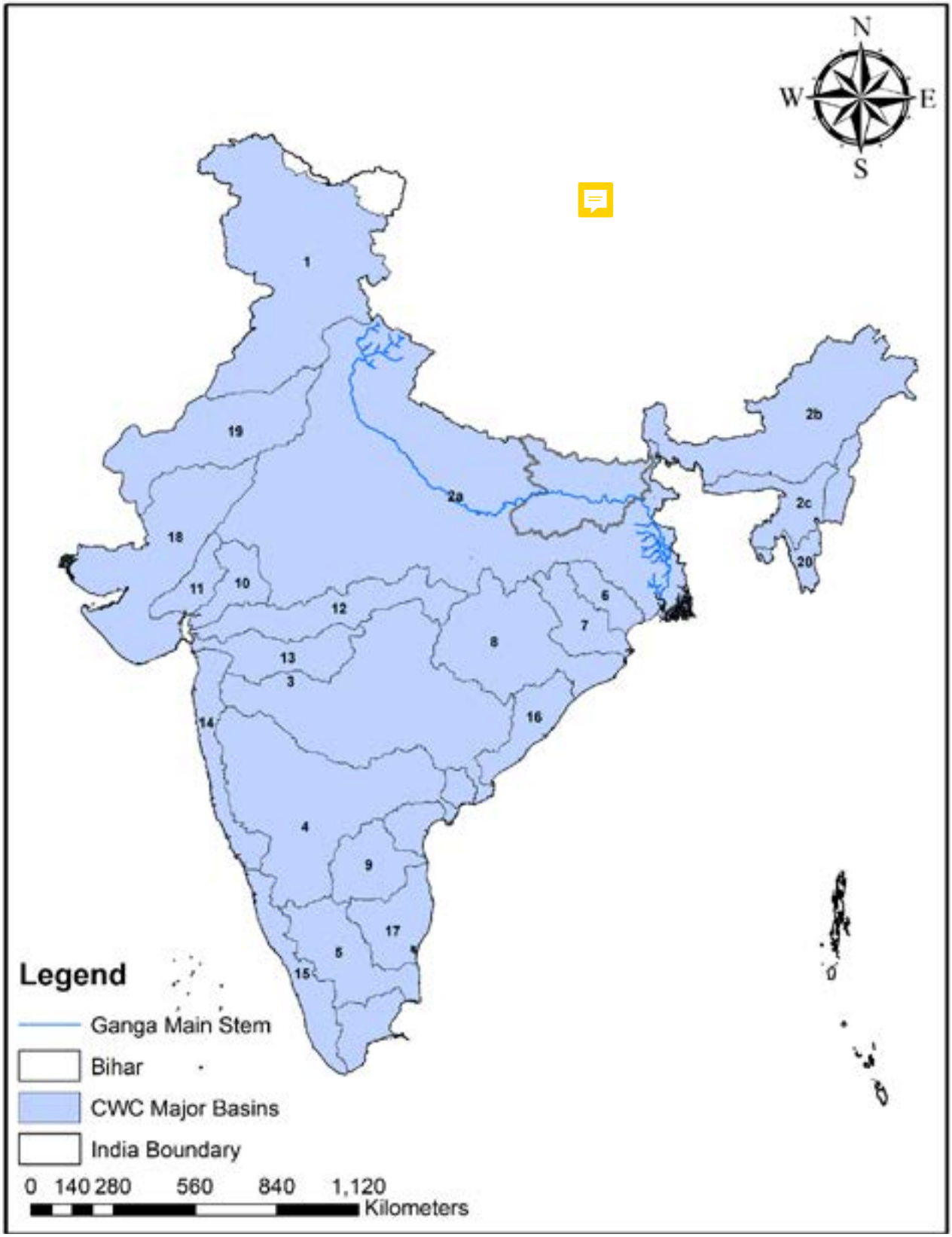
KIUL BASIN: MAJOR BARRAGES AND WEIRS ON THE RIVERS AND HER TRIBUTARIES

S. No	District	Name	Type	River	Status	Year Commen-semt	Comple-tion Year	Length (m)	Height upto Crest (m)	Purpose
1	Jehanabad	Chhariyari Weir	Weir	Yamune River				30.48		
2	Gaya	Dhadhar Barrage	Barrage	Dhadhar	Completed		2004	138	2.434	
3	Jamui	Gidheshwar Weir	Weir	Kiul	Completed			396.24		
4	Gaya	Gokhula Weir	Weir	Gokhula	Completed		1975			
5	Jehanabad	Kanakbigha Weir	Weir	Yamune River	Completed			49.98		
6	Nawada	Karihari Weir	Weir	Karihari	Completed					
7	Nalanda	Kulthi Weir	Weir		Completed					
8	Jamui	Kundghat Weir	Weir	Bahuar	Completed			34.7		
9	Nalanda	Libari / Bharthua-nandan Weir	Weir	Bhutahi	Proposed			54.864		
10	Nalanda	Lokain Weir	Weir	Lokain (Falgu)	Completed		1964	73.15		
11	Jamui	Lower Kiul Weir	Weir	Kiul	Completed		1965	202.5		
12	Gaya	Lower Morhar Weir	Weir	Morhar	Completed		1962	289.56		
13	Jehanabad	Mandai Weir	Weir	Falgu	Under Construc-tion			305		
14	Lakhisarai	Morwe Weir	Weir	Morwe	Completed					
15	Nalanda	Paimar Barrage	Barrage	Paimar	Completed					
16	Nalanda	Panchane Weir	Weir	Panchana	Completed			230	1.21	
17	Nawada	Paura Weir (Sakri)	Weir	Sakri	Completed					
18	Jehanabad	Uderasthan Weir	Weir	Falgu	Completed			336	1	
19	Gaya	Upper Jamuna / Yamuna Weir	Weir	Yamune River	Completed		1959			
20	Gaya	Upper Morhar Diversion Weir	Weir	Morhar	Completed		1961	195.07		
21	Ramgarh (Jharkhand)	Lapasia Weir	Weir	Lapasia	Completed		1954	19.50	1.603	

CWC BASINS

Basin Code	Basin Name
1	Indus (Up to border)
2a	Ganga
2b	Brahmaputra
2c	Barak and others
3	Godavari
4	Krishna
5	Cauvery
6	Subernarekha
7	Brahmani and Baitarni
8	Mahanadi
9	Pennar
10	Mahi
11	Sabarmati
12	Narmada
13	Tapi
14	West flowing s from Tapi to Tadri
15	West flowing s from Tadri to Kanyakumari
16	East flowing s between Mahanadi and Pennar
17	East flowing s between Pennar and Kanyakumari
18	West flowing s of Kutch and Saurashtra including Luni
19	Area of inland drainage in Rajasthan
20	Minors draining into Myanmar (Burma and Bangladesh)

Source: River Basin Atlas of India, Ministry of Water Resources, GoI (October 2012)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Legend
Ganga Main Stem
Bihar
CWC Major Basins
India Boundary
0 140 280 560 840 1,120
Kilometers

KIUL BASIN: ADMINISTRATIVE STRUCTURE

District: 15

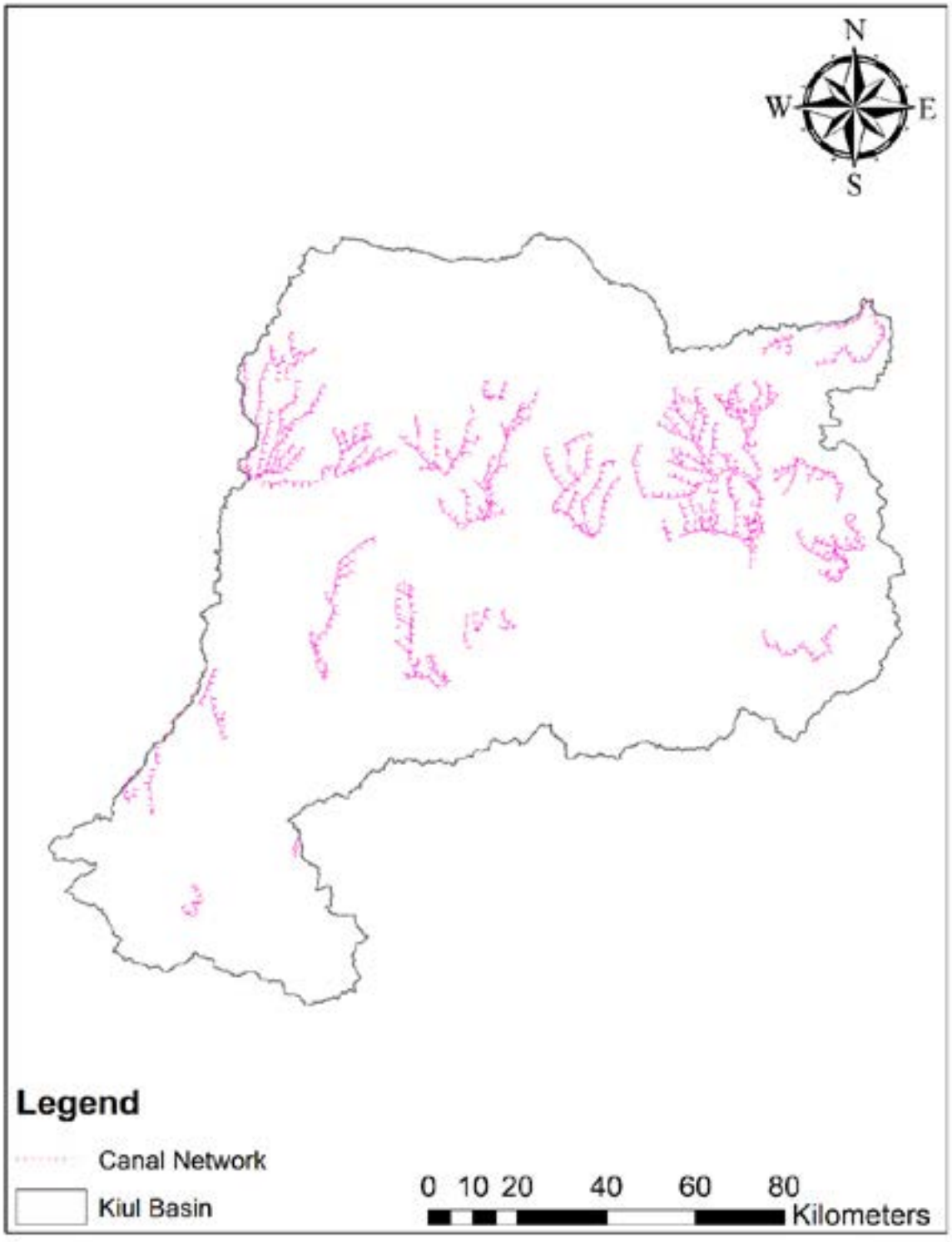
Tehsil: 44

Block: 118

Villages: 7,603

KIUL BASIN: CANAL NETWORK

Total Canal Network Length: 1,333.57 KM



Source: NWIC

DETAILS OF CANAL PROJECTS

S No	Canal Name	Project Name	Length (km)
1	Golai RBC	Golai Weir Scheme	10.58
2	Hiru RBC	Hiru Reservoir Scheme	10.15
3	Hiru LBC	Hiru Reservoir Scheme	3.61
4	Buksa Main canal	Buksa / Baksa Reservoir Scheme	5.44
5	Dulki Left Canal	Dulki Reservoir Scheme	7.60
6	Dulki Right Canal	Dulki Reservoir Scheme	3.53
7	Kundghat Weir Main Canal	Kundghat Medium Irrigation Project	5.23
8	Lilajan Main Canal	Lilajan Major Irrigation Project	7.45
9	Dharawat Main Canel	Uderasthan Major Irrigation Project	2.80
10	Uderasthan Left Main Canal	Uderasthan Major Irrigation Project	2.92
11	Morway High Level Canal	Morwa Medium Irrigation Project	6.82
12	Ajan Left Main Canal	Ajan (Kukurjhap) Medium Irrigation Project	17.53
13	Ajan Right Main Canal	Ajan (Kukurjhap) Medium Irrigation Project	6.32
14	Barnar Left Bank Main Canal	Barnar Major Irrigation Project	19.70
15	Left Bank Low Level Canal	Nagi Medium Irrigation Project	6.29
16	Right Bank Low Level Canal	Nagi Medium Irrigation Project	11.72
17	Barnar Right Bank Main Canal	Barnar Major Irrigation Project	11.33
18	Uderasthan Right Main Canal	Uderasthan Major Irrigation Project	1.83
19	Mahamuda Main Canal	Uderasthan Major Irrigation Project	1.96
20	Panchane Left main canal	Panchane Medium Irrigation Project	13.54
21	Panchane Right main canal	Panchane Medium Irrigation Project	17.48
22	Morway Main Canal	Morwa Medium Irrigation Project	1.84
23	Hablbalipur Branch Canal	Uderasthan Major Irrigation Project	21.31
24	Nataul Branch Canal	Uderasthan Major Irrigation Project	14.75
25	Mahamuda Branch Canal	Uderasthan Major Irrigation Project	17.80
26	Ramgarh Branch Canal	Lower Kiul Valley Major Irrigation Project	20.04
27	Manjosh Branch Canal	Upper Kiul Major Irrigation Project	8.21
28	Kharsari Branch Canal	Upper Kiul Major Irrigation Project	13.93
29	Raghunathpur Branch Canal	Upper Kiul Major Irrigation Project	8.53
30	Kajra Branch Canal	Morwa Medium Irrigation Project	10.06

S No	Canal Name	Project Name	Length (km)
31	Branch Canal 5	Nagi Medium Irrigation Project	1.93
32	Branch Canal 4	Nagi Medium Irrigation Project	2.81
33	Fatehpur canal	Nagi Medium Irrigation Project	2.13
34	Patao Canal	Nagi Medium Irrigation Project	3.60
35	Bharthu Branch Canal	Uderasthan Major Irrigation Project	15.32
36	Jalwar Branch Canal	Uderasthan Major Irrigation Project	13.52
37	Telahara Branch Canal	Uderasthan Major Irrigation Project	23.08
38	Itasagar Branch Canal	Upper Kiul Major Irrigation Project	5.96
39	Branch Canal 2	Nagi Medium Irrigation Project	13.05
40	Branch Canal 3	Nagi Medium Irrigation Project	2.16
41	Sikandra distributary	Lower Kiul Valley Major Irrigation Project	20.86
42	Piparsot Distributary	Gokhula Medium Irrigation Project	1.71
43	Chanda Khap Distributary	Gokhula Medium Irrigation Project	6.42
44	Nanand Distributary	Panchane Medium Irrigation Project	8.41
45	Ghosrawan distributary	Panchane Medium Irrigation Project	4.39
46	Nalanda Distributary	Panchane Medium Irrigation Project	7.90
47	Rajgir Distributary	Panchane Medium Irrigation Project	4.24
48	Pyarepur Distributary	Panchane Medium Irrigation Project	1.98
49	Lakhna Distributary	Morwa Medium Irrigation Project	4.74
50	Pokharawan Distributary	Morwa Medium Irrigation Project	7.26
51	Chandanpura distributary	Morwa Medium Irrigation Project	5.87
52	Darisir Distributary	Morwa Medium Irrigation Project	3.55
53	Halsi Distributary	Lower Kiul Valley Major Irrigation Project	11.07
54	Sharma Distributary	Lower Kiul Valley Major Irrigation Project	10.91
55	Babhangama Distributary	Lower Kiul Valley Major Irrigation Project	4.33
56	Nadiwan Distributary	Lower Kiul Valley Major Irrigation Project	9.41
57	Kandi Distributary	Lower Kiul Valley Major Irrigation Project	6.63
58	Morma Distributary	Lower Kiul Valley Major Irrigation Project	3.15
59	Rajauna Distributary	Lower Kiul Valley Major Irrigation Project	9.21
60	Hasanpur Distributary	Lower Kiul Valley Major Irrigation Project	9.02

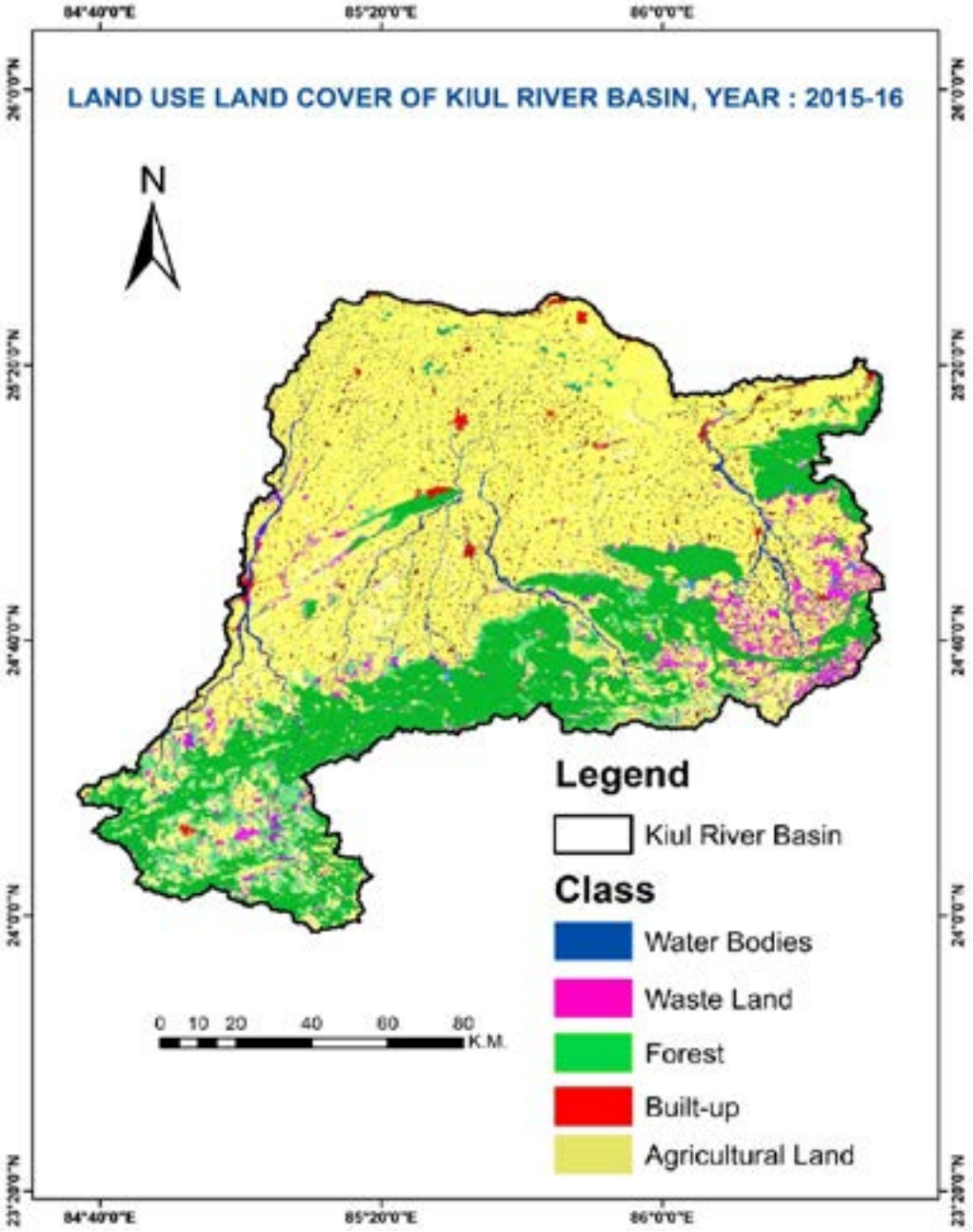
S No	Canal Name	Project Name	Length (km)
61	Matiya Distributary	Ajan (Kukurjhap) Medium Irrigation Project	1.98
62	Lalmatiya Distributary	Ajan (Kukurjhap) Medium Irrigation Project	3.41
63	Belia Canal	Ajan (Kukurjhap) Medium Irrigation Project	8.90
64		Ajan (Kukurjhap) Medium Irrigation Project	6.03
65	Mano Distributary	Morwa Medium Irrigation Project	5.67
66	Islampur Distributary	Uderasthan Major Irrigation Project	12.01
67	Aungari Distribuatary	Uderasthan Major Irrigation Project	16.88
68	Dasain Pyne	Uderasthan Major Irrigation Project	9.15
69	Raijer Distributary	Panchane Medium Irrigation Project	4.72
70	Rabai Distributary	Kundghat Medium Irrigation Project	1.88
71	Majhway Distributary	Lower Kiul Valley Major Irrigation Project	5.01
72	Damodarpur Distributary	Lower Kiul Valley Major Irrigation Project	6.94
73	Hansapur Distributary	Lower Kiul Valley Major Irrigation Project	3.78
74	Noma Sub-Distributary	Lower Kiul Valley Major Irrigation Project	3.44
75	Garsanda Sub-Distributary	Lower Kiul Valley Major Irrigation Project	5.78
76	Dariapur Sub- Distributary	Lower Kiul Valley Major Irrigation Project	5.09
77	Nabinagar minor	Upper Kiul Major Irrigation Project	5.81
78	Sikandra Minor	Upper Kiul Major Irrigation Project	7.02
79		Lower Kiul Valley Major Irrigation Project	1.49
80	Dharawat Main Canal (Part)	Uderasthan Major Irrigation Project	0.68
81	Karmauni Branch Canal	Lilajan Major Irrigation Project	5.39
82	Nakti Right Bank Main Canal		12.69
83	Nakti Left Bank Main Canal		14.13
84	Sahur distributary	Lower Kiul Valley Major Irrigation Project	3.08
85	Lower Kiul Left main canal	Lower Kiul Valley Major Irrigation Project	16.34
86	Daulatpur Distributary	Upper Kiul Major Irrigation Project	1.04
87	Amarath Distributary	Upper Kiul Major Irrigation Project	2.27
88	Srikhandi Right Bank Canal		3.77
89	Budhia Distributary	Upper Kiul Major Irrigation Project	4.51
90		Upper Kiul Major Irrigation Project	0.98
91	Khaira Distributary	Upper Kiul Major Irrigation Project	4.91

S No	Canal Name	Project Name	Length (km)
92	Dumarkola Distributary	Upper Kiul Major Irrigation Project	1.11
93	Aviapur Distributary	Upper Kiul Major Irrigation Project	2.55
94		Upper Kiul Major Irrigation Project	2.93
95			0.55
96	Dharampur Distributary	Upper Kiul Major Irrigation Project	1.97
97	Gidheshwar Main Canal/ Common water carrier	Upper Kiul Major Irrigation Project	3.17
98	Gidheshwar Pyne	Upper Kiul Major Irrigation Project	20.14
99	Upper Kiul Main Canal	Upper Kiul Major Irrigation Project	19.20
100	Ramsagar Canal/Srikhandi LBC		3.64
101	Ghanberia Distributary	Upper Kiul Major Irrigation Project	0.89
102	Lohra Distributary	Upper Kiul Major Irrigation Project	2.72
103	Pratappur Distributary	Upper Kiul Major Irrigation Project	3.23
104	Lower Kiul Right Main Canal	Lower Kiul Valley Major Irrigation Project	23.33
105	Sangrampur Distributary		1.82
106		Lower Kiul Valley Major Irrigation Project	1.24
107		Lower Kiul Valley Major Irrigation Project	1.75
108	Phulwaria Right Main Canal	Phulwaria Medium Irrigation Project	10.10
109	Ballia Minor	Phulwaria Medium Irrigation Project	1.23
110	Rajabigha Distributory	Phulwaria Medium Irrigation Project	7.29
111	Bhatbigha Distributory	Phulwaria Medium Irrigation Project	4.70
112	Sirdala Minor	Phulwaria Medium Irrigation Project	1.50
113	Phulwaria Left Main Canal	Phulwaria Medium Irrigation Project	10.16
114	Left Branch Canal	Phulwaria Medium Irrigation Project	20.18
115	Manjhila Minor	Phulwaria Medium Irrigation Project	1.01
116	Bhalua Minor	Phulwaria Medium Irrigation Project	2.15
117	Kendua Minor	Phulwaria Medium Irrigation Project	1.57
118	Gajra distributory	Phulwaria Medium Irrigation Project	3.65
119	Jhikarua distributory	Phulwaria Medium Irrigation Project	3.32
120	Paroria distributory	Phulwaria Medium Irrigation Project	2.32
121	Amjhori Minor	Phulwaria Medium Irrigation Project	3.50

S No	Canal Name	Project Name	Length (km)
122	Job Left Main Canal	Job Medium Irrigation Project	7.77
123	Khaira Khurd Distributary	Job Medium Irrigation Project	5.58
124	Sadipur Distributary	Job Medium Irrigation Project	4.67
125	Bahiyara Main Canal	Kolmahadeo Medium Irrigation Project	5.01
126	Ektara Branch Canal	Kolmahadeo Medium Irrigation Project	2.88
127	Silao Distributary	Paimar Barrage Medium Irrigation Project	14.38
128		Paimar Barrage Medium Irrigation Project	4.66
129		Paimar Barrage Medium Irrigation Project	7.01
130		Paimar Barrage Medium Irrigation Project	7.98
131		Paimar Barrage Medium Irrigation Project	4.76
132		Paimar Barrage Medium Irrigation Project	4.65
133		Paimar Barrage Medium Irrigation Project	4.31
134	Paimer Barrage Main Canal	Paimar Barrage Medium Irrigation Project	11.28
135	Kulthi Right Main Canal	Kulthi Weir Medium Irrigation Project	2.46
136		Kulthi Weir Medium Irrigation Project	3.78
137	Kulthi Left Main Canal	Kulthi Weir Medium Irrigation Project	1.56
138		Kulthi Weir Medium Irrigation Project	4.10
139		Karihari Medium Irrigation Project	17.84
140	Durgapur Distributary	Karihari Medium Irrigation Project	5.72
141	Salempur branch	Karihari Medium Irrigation Project	11.09
142	Kaurihar Right Main Canal	Karihari Medium Irrigation Project	25.99
143		Karihari Medium Irrigation Project	9.33
144	Jyuri distributary	Karihari Medium Irrigation Project	2.04
145		Karihari Medium Irrigation Project	6.14
146		Karihari Medium Irrigation Project	2.80
147	Kaurihar Left Main Canal	Karihari Medium Irrigation Project	17.36
148	Dhakranallah Main Canal	Dhakranalla Pump Ph - I Medium Project	30.14
149	Fardah Disty	Dhakranalla Pump Ph - I Medium Project	12.85
150	Mahabodhi Pyne	Mahabodhi Medium Irrigation Project	9.01
151	Lokine Right Main Canal	Lokine Medium Irrigation Project	5.83
152	Lokine Left Main Canal	Lokine Medium Irrigation Project	5.58

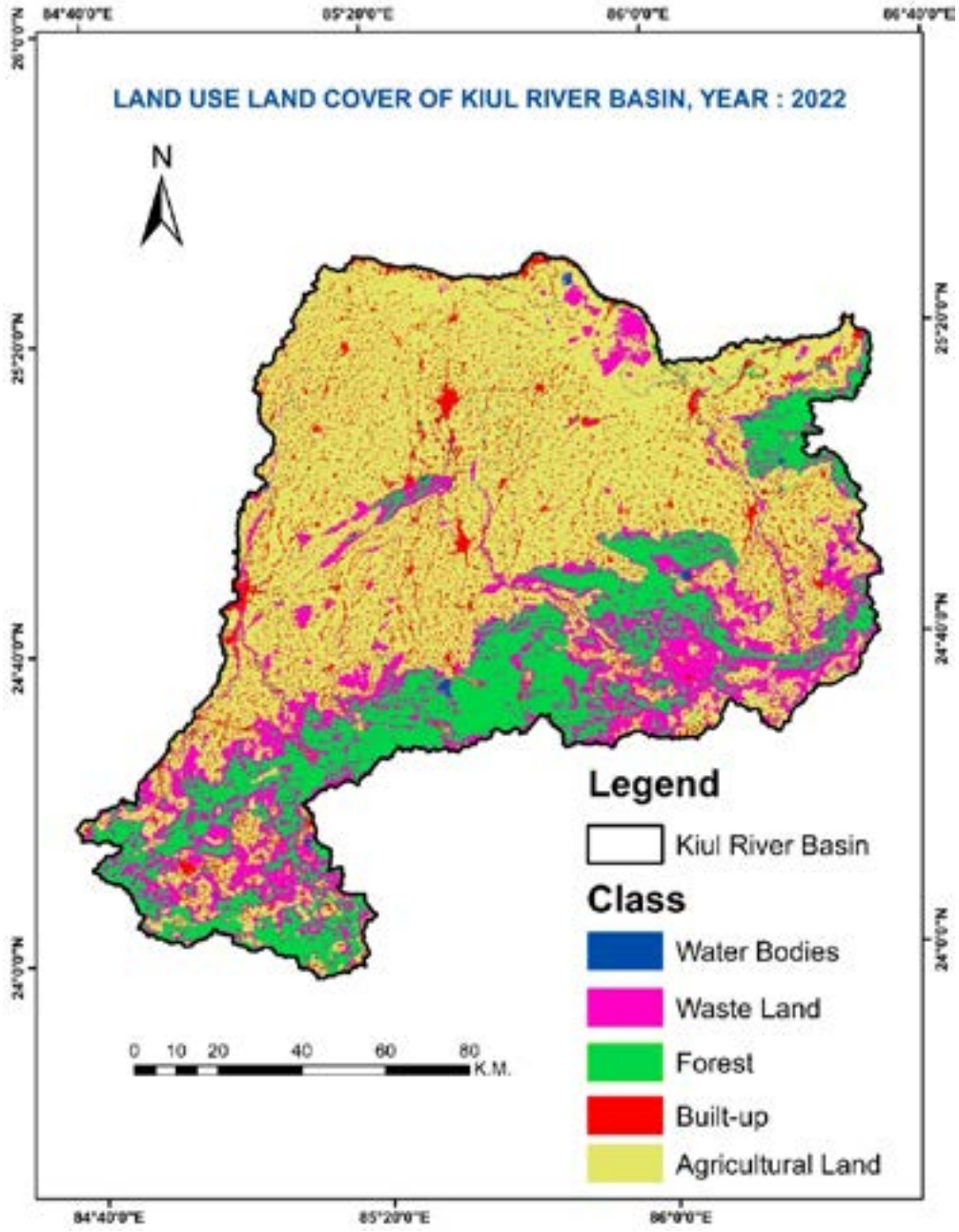
S No	Canal Name	Project Name	Length (km)
153	Mandai Left Main Canal	Mandai Medium Irrigation Project	3.44
154	Simra Distributary	Mandai Medium Irrigation Project	3.24
155	Kararua Distributary	Mandai Medium Irrigation Project	5.03
156	Rarhil Distributary	Mandai Medium Irrigation Project	9.20
157		Tilaiya - Dhadhar Major Irrigation Project	13.08
158	Rampur Branch Canal	Tilaiya - Dhadhar Major Irrigation Project	19.51
159	Pandey Bigha Distributary	Tilaiya - Dhadhar Major Irrigation Project	18.87
160	Dariyapur Minor	Tilaiya - Dhadhar Major Irrigation Project	3.96
161	Jagatpur Minor	Tilaiya - Dhadhar Major Irrigation Project	3.55
162	Dhadhar Left Main Canal	Tilaiya - Dhadhar Major Irrigation Project	3.34
163	Surajgarh Pump Main Canal	Surajgarh Pump Canal Medium Irrigation Project	8.58
164	RamuBaba Than Distributary	Surajgarh Pump Canal Medium Irrigation Project	4.18
165	Manikpur Distry	Surajgarh Pump Canal Medium Irrigation Project	2.55
166	Sakri Left Main Canal	Sakri Lower Valley Major Irrigation Project	15.38
167	Sakri Right Main Canal	Sakri Lower Valley Major Irrigation Project	29.08
168	Mirzapur link channel	Sakri Lower Valley Major Irrigation Project	6.87
169		Sakri Lower Valley Major Irrigation Project	7.92
170		Sakri Lower Valley Major Irrigation Project	3.29
171		Sakri Lower Valley Major Irrigation Project	3.71
172		Sakri Lower Valley Major Irrigation Project	4.96
173		Sakri Lower Valley Major Irrigation Project	2.18
174		Sakri Lower Valley Major Irrigation Project	1.73
175		Sakri Lower Valley Major Irrigation Project	6.77
176		Sakri Lower Valley Major Irrigation Project	8.04
177		Sakri Lower Valley Major Irrigation Project	2.98
178	Gokhula Main Canal	Gokhula Medium Irrigation Project	6.18
179	Nafan distributary	Sakri Lower Valley Major Irrigation Project	8.61
180	Left Bank High Level Canal	Nagi Medium Irrigation Project	2.32
181	Right Bank High Level Canal	Nagi Medium Irrigation Project	2.73

KIUL BASIN: LAND USE LAND COVER [1:50K]



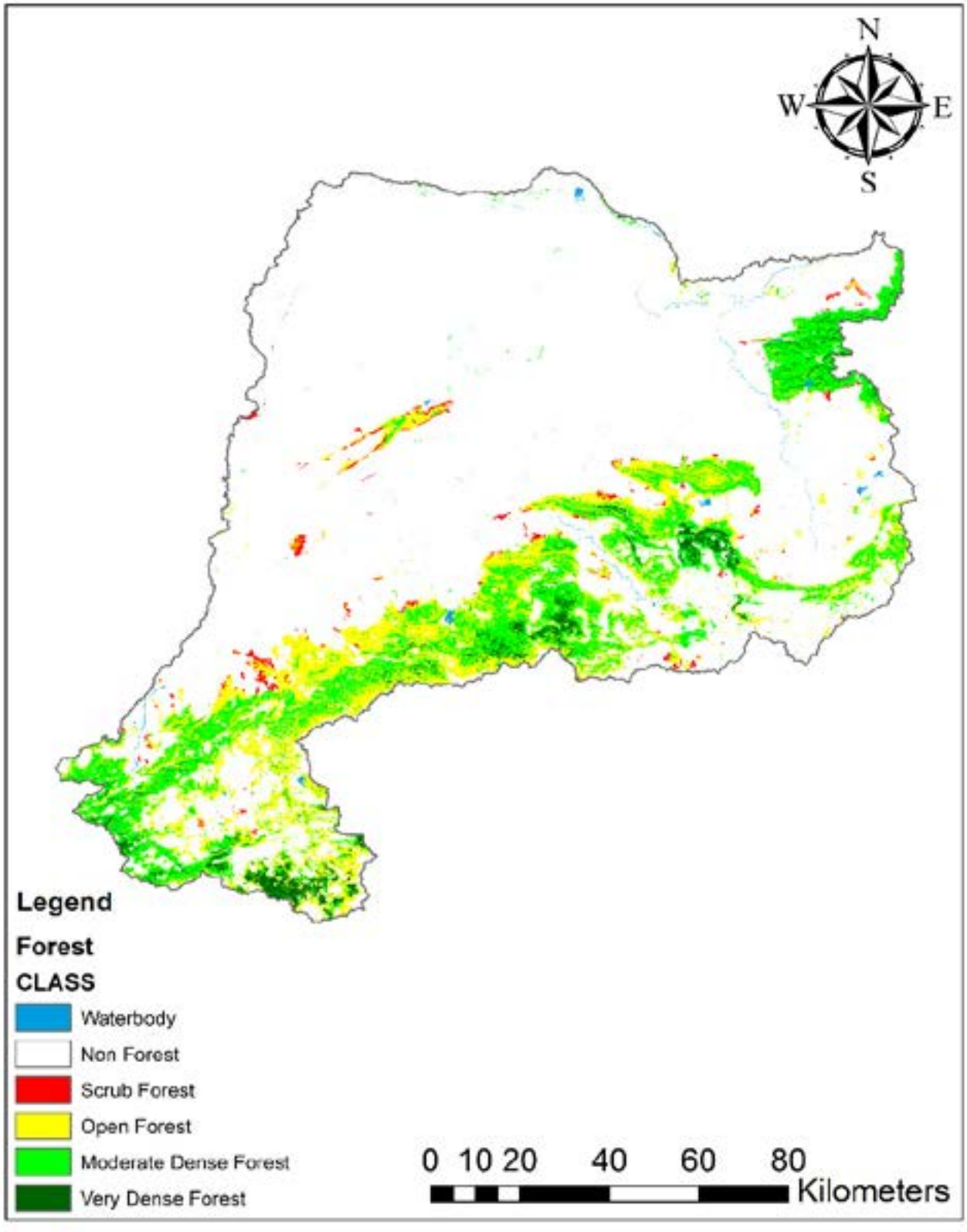
Imagery: Multi-temporal satellite data of 2015-16 from Resourcesat-2 LISS III, Year: 2015 -16
Accuracy: Overall accuracy of different LULC classes vary from 79% (like Agro-horticulture) to 97% (like waterbodies).
Source: NRSC

KIUL BASIN: LAND USE LAND COVER [SENTINEL-2]



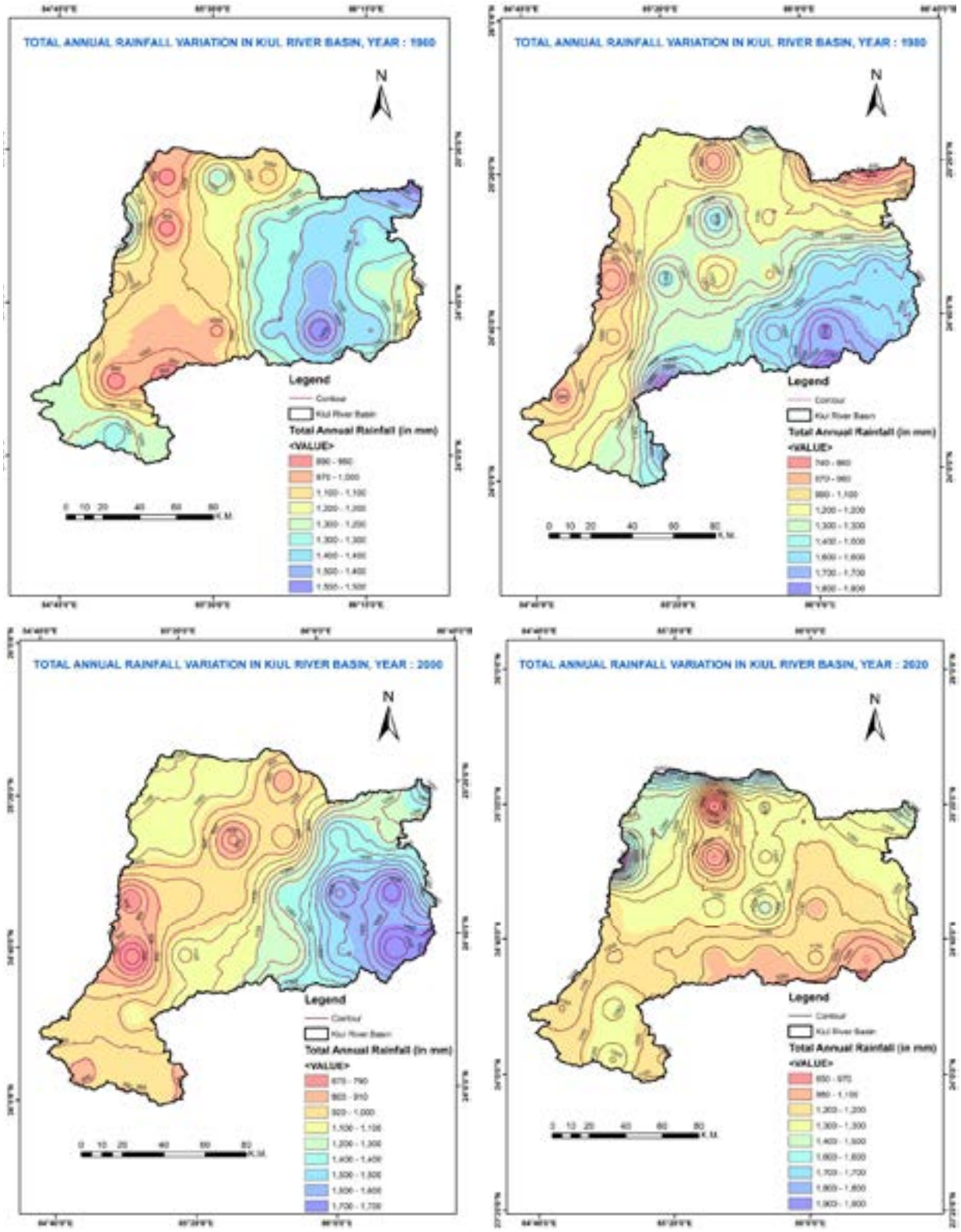
Imagery: Sentinel-2
Year: 2021
Accuracy: 85.96%
Source: ESRI

KIUL BASIN: FOREST COVER



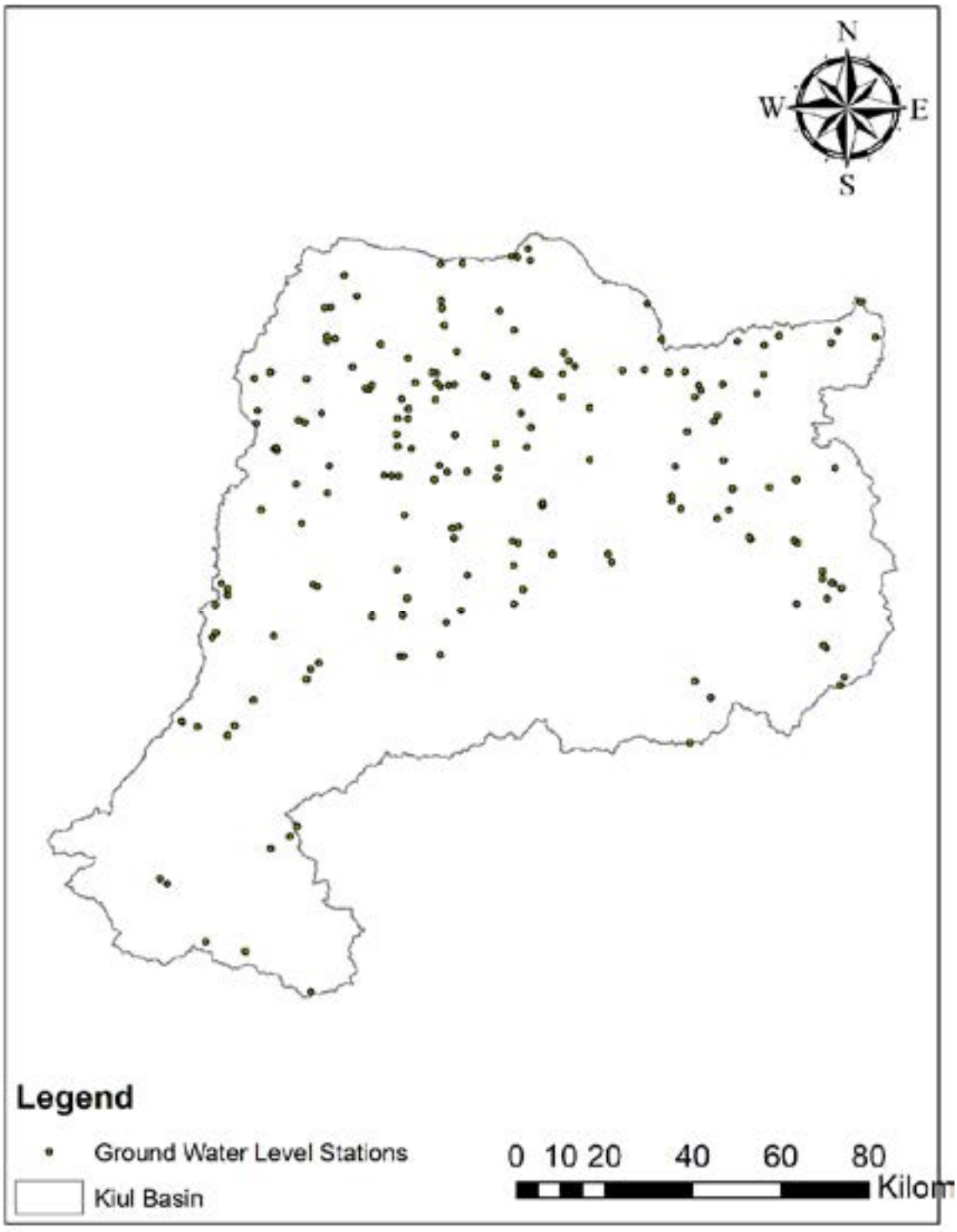
Source: Forest Survey of India, 2019

KIUL BASIN: ANNUAL RAINFALL [1960 – 2020]

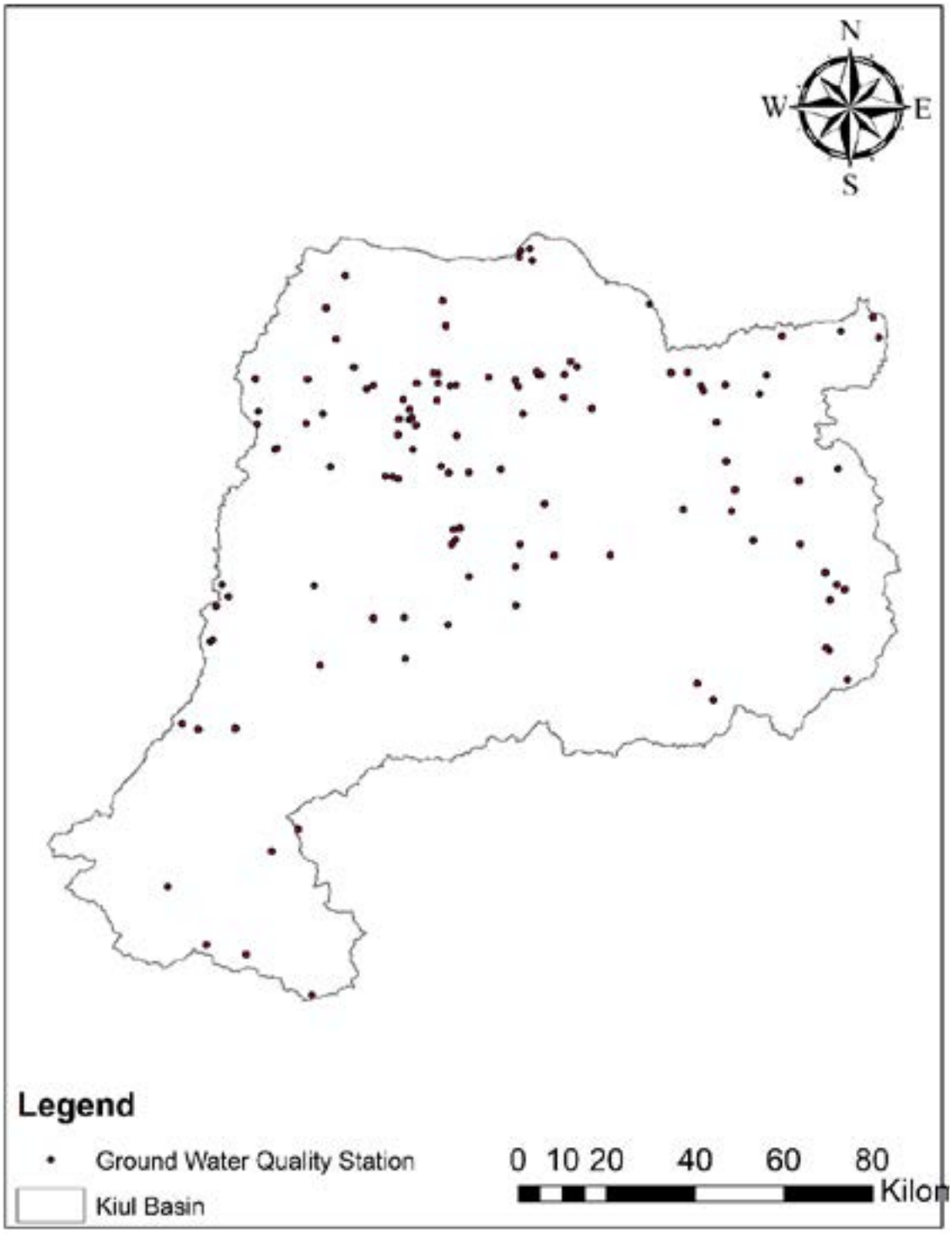


Source: IMD

KIUL BASIN: GROUND WATER LEVEL AND QUALITY STATION

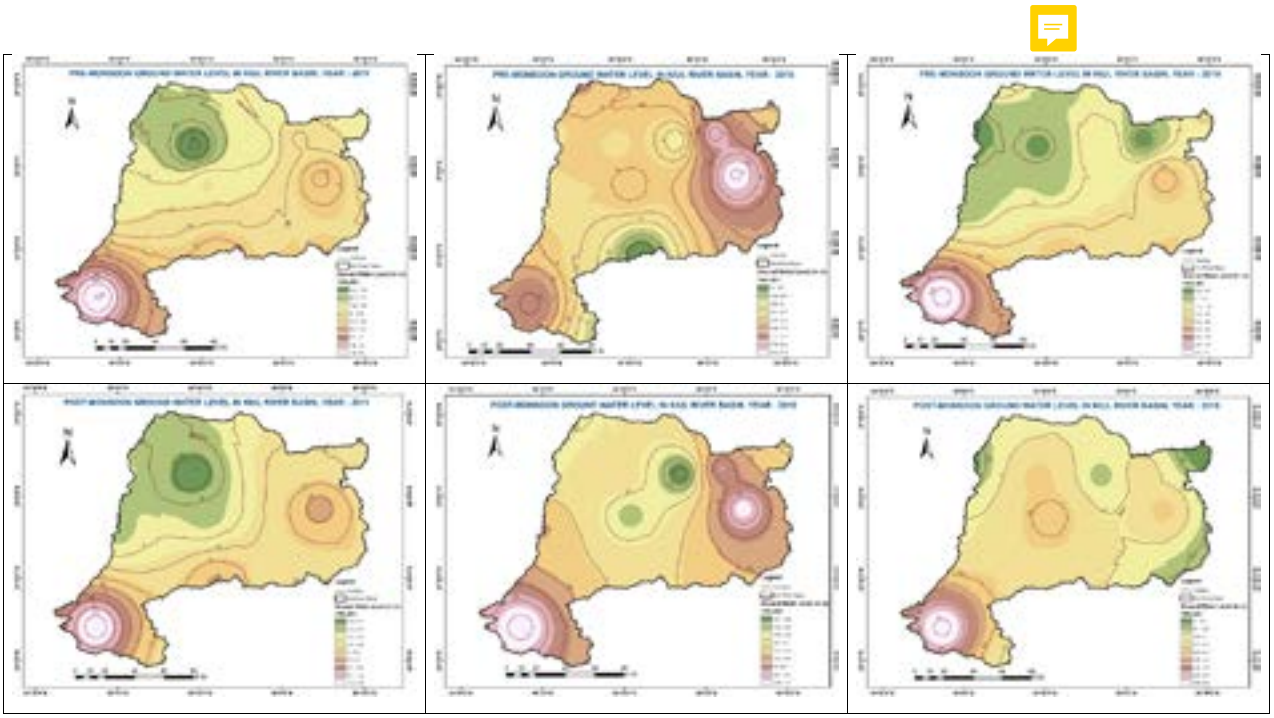


Source: NWIC


N
W
E
S
Legend
Ground Water Quality Station
Kiul Basin
0 10 20 40 60 80
Kilom

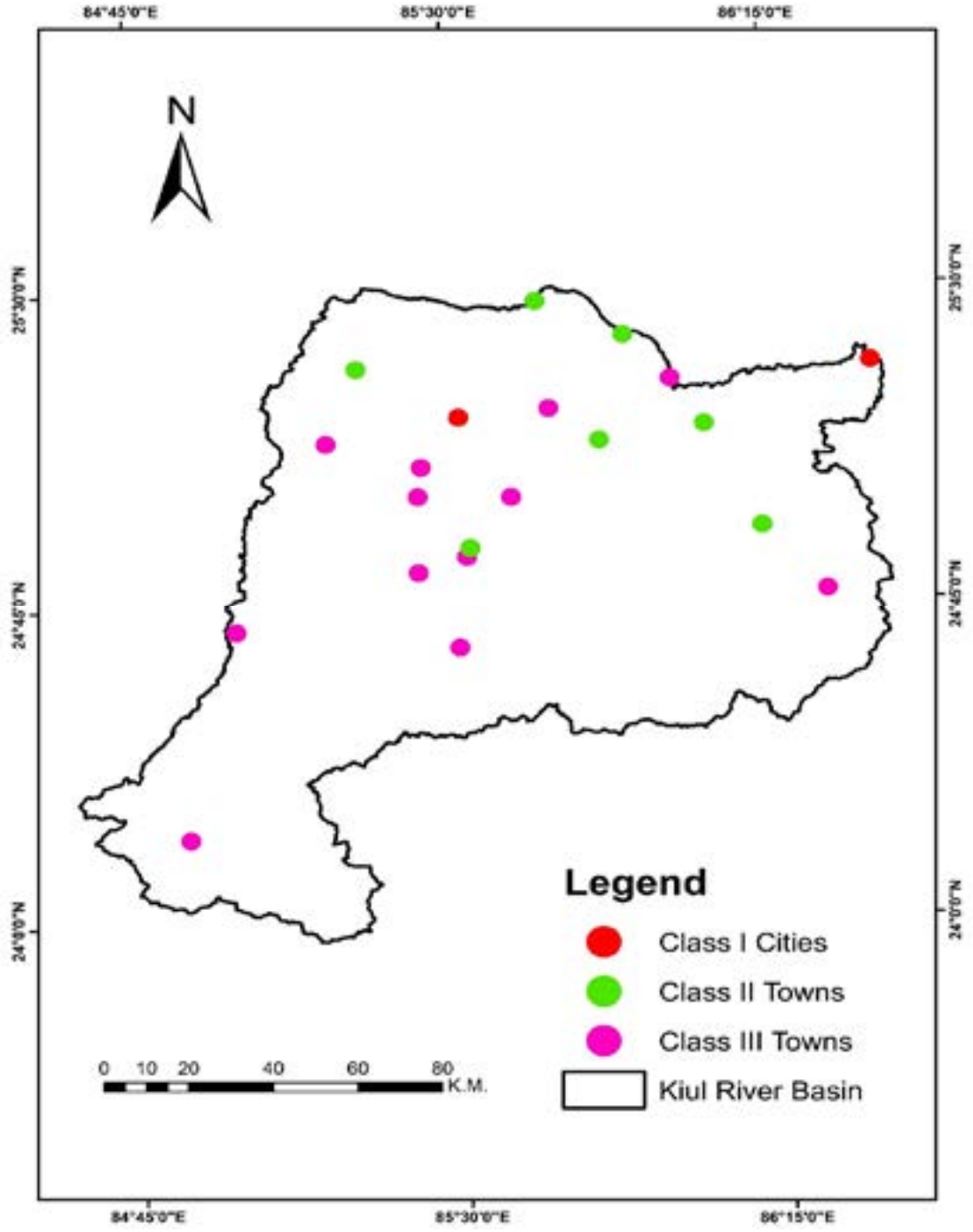
Source: NWIC

KIUL BASIN: GROUND WATER LEVELS



Source: CGWB

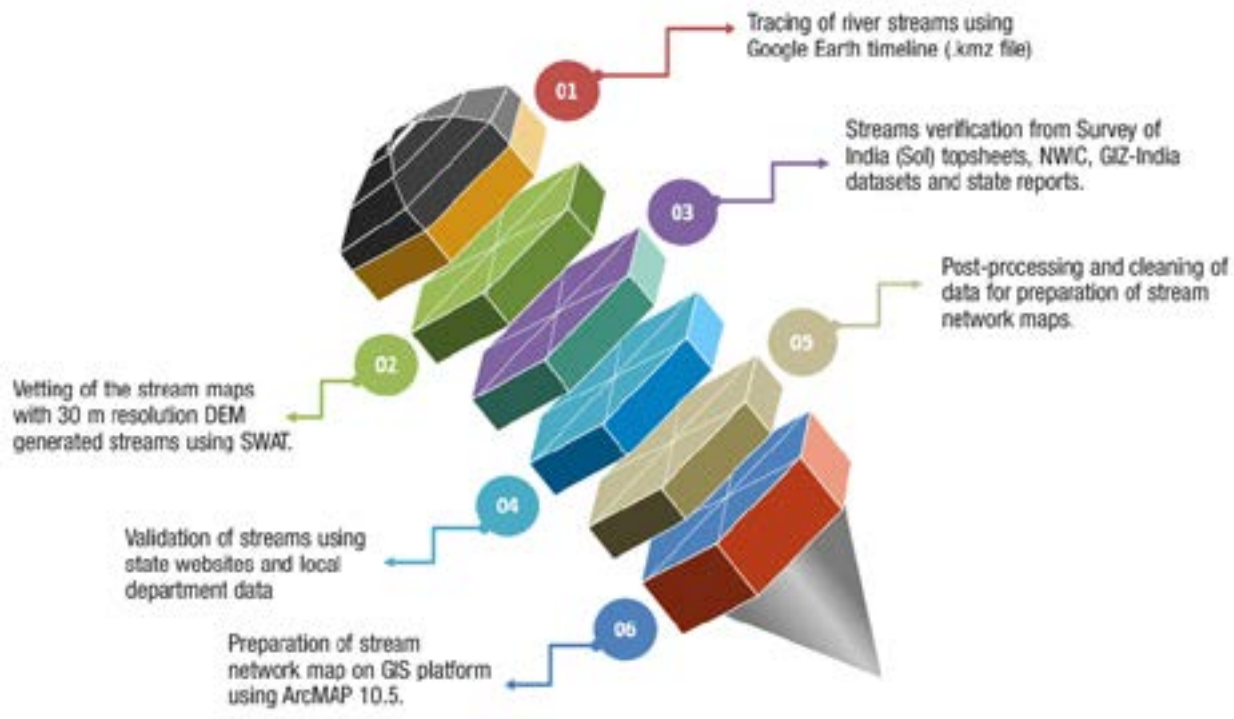
KIUL BASIN: CLASS I, II AND III CITIES



02 Class I cities,
07 Class II and 12 Class III towns

RIVER NETWORK PREPARATION METHODOLOGY

The method adopted, in brief, to obtain the river network are stepwise as follows:

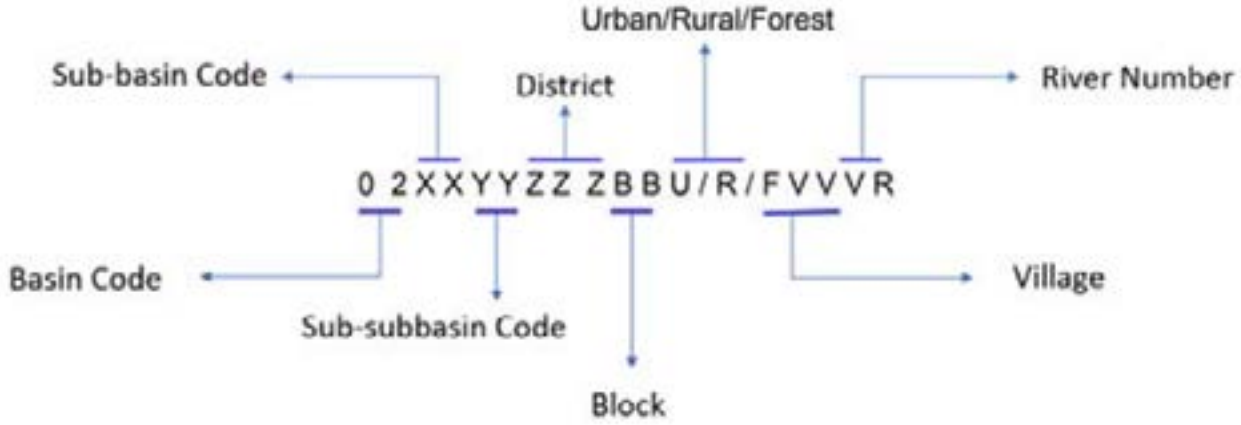


- Streams less than 2.5 km and coming from local agriculture land is not covered.
- All streams covered which are coming from populated area (Urban or Rural) even if they are less than 1 km. (if it is visible).

Disclaimer: The accuracies of the maps generated by the above method are subject to the limitations of the data processing tools and software used for the particular geographical regions as represented in Google Earth images, and are subject to future refinement.

RIVER CODIFICATION SYSTEM

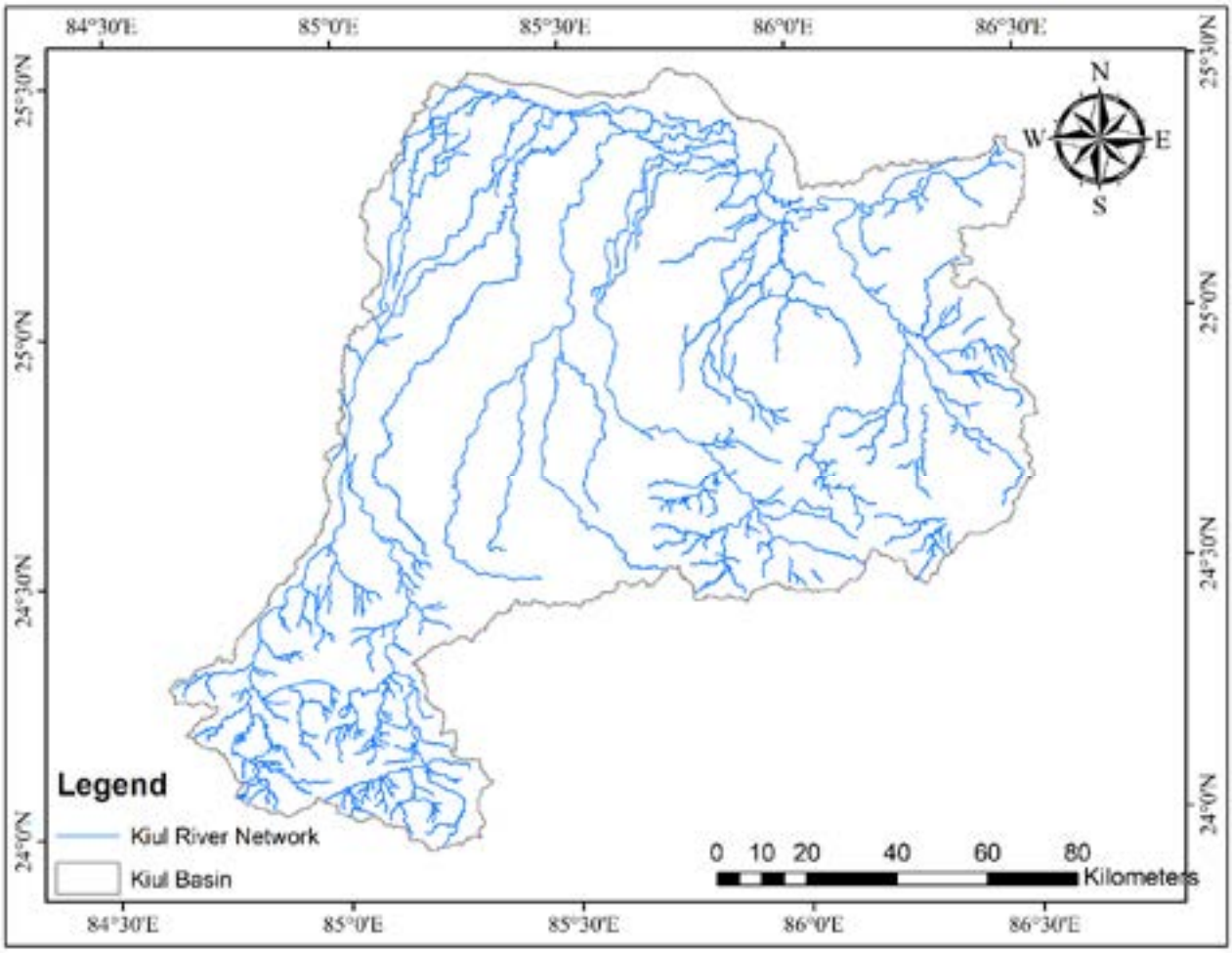
In the present Atlas alphanumeric characters are used for coding the river systems. A combination of natural and administrative boundaries is used to assign a code to each river. Each sub-step in the codification system is assigned a digit that indicates the length of the code up to that point, and the total length of the code is 16 digits.



The first two digits represent the code for the major basin, according to the code system proposed by the Central Water Commission (CWC), Government of India. The following four digits indicate the sub-basins and sub-subbasins, in the order of the rivers. The district code is represented by the next three digits and is based on the 2011 census data. The administrative boundaries will be determined based on the source of the river. The next two digits represent the block code, which is taken from the district website and uses the same serial numbering system. The next character, 'U', 'R' or 'F' indicates whether the river is located in an urban, rural or forest area. The next three digits represent the code for the village, based on census data from 2011, and uses the same serial numbering system as provided on the census data but the number will be given based on block. The final digit indicates the number of the river that originates from the specific administrative boundary.

KIUL BASIN AND ITS RIVER NETWORK

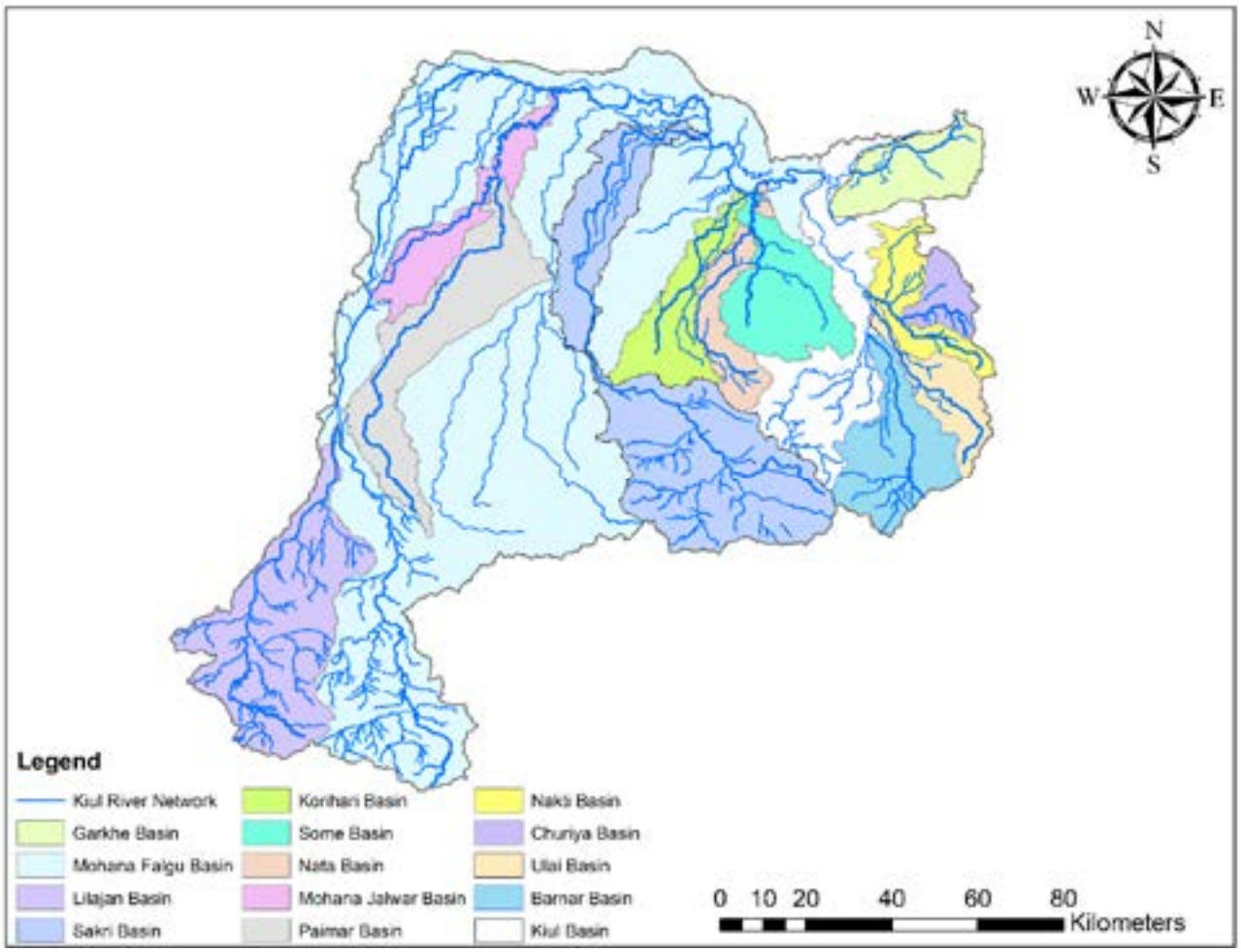
Area: 17,680.80 Sq. Km
Number of Rivers: 337
River Network: 4060.54 Km



KIUL BASIN: SUB-BASINS

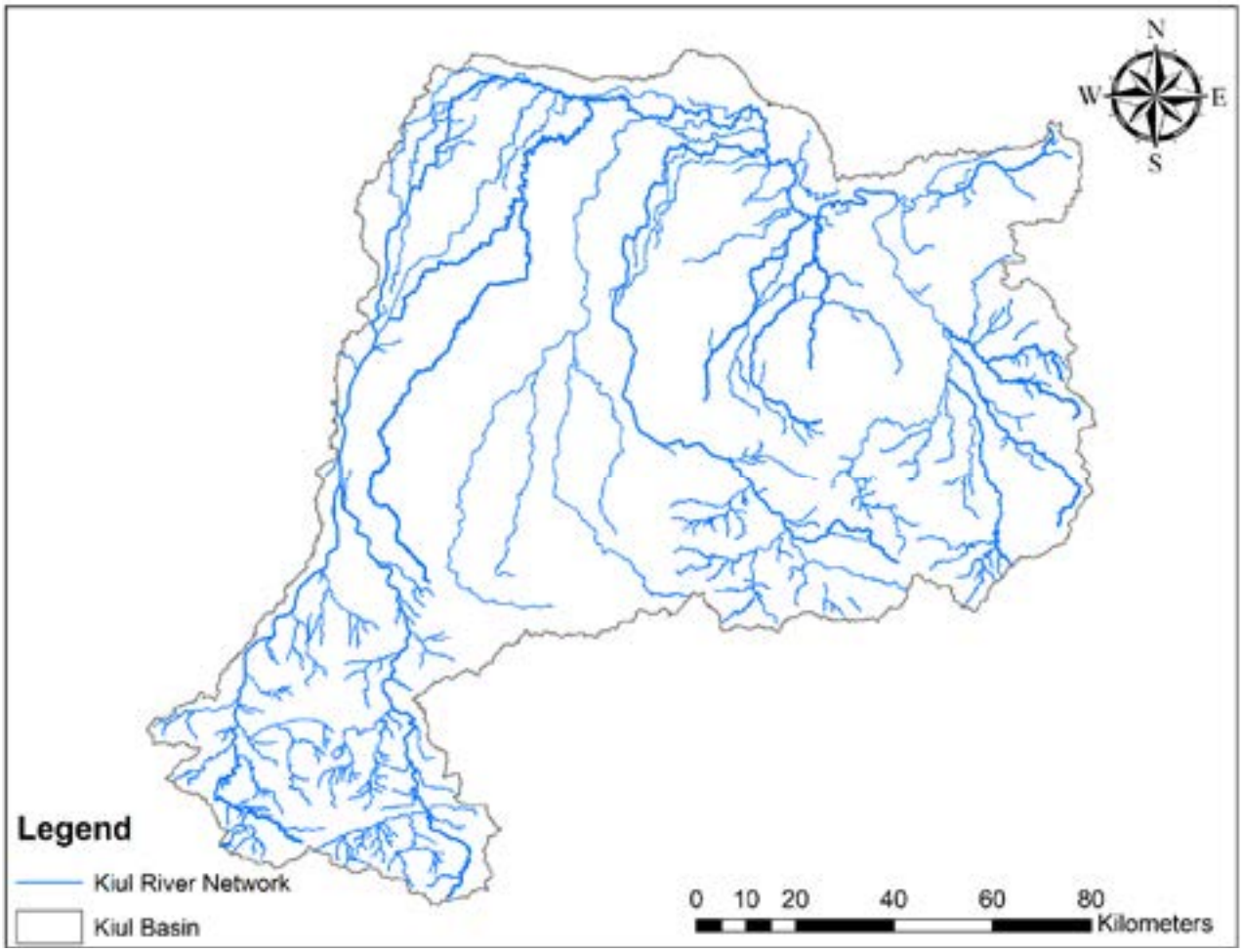
Major sub-basins of Kiul River Basin are as follows:

- Garkhe Basin
- Korihari Basin
- Paimar Basin
- Barnar Basin
- Mohana-Falgu Basin
- Some Basin
- Nakti Basin
- Lilajan Basin
- Nata Basin
- Churiya-Bajan Basin
- Sakri Basin
- Mohana-Jalwar Basin
- Ulai Basin

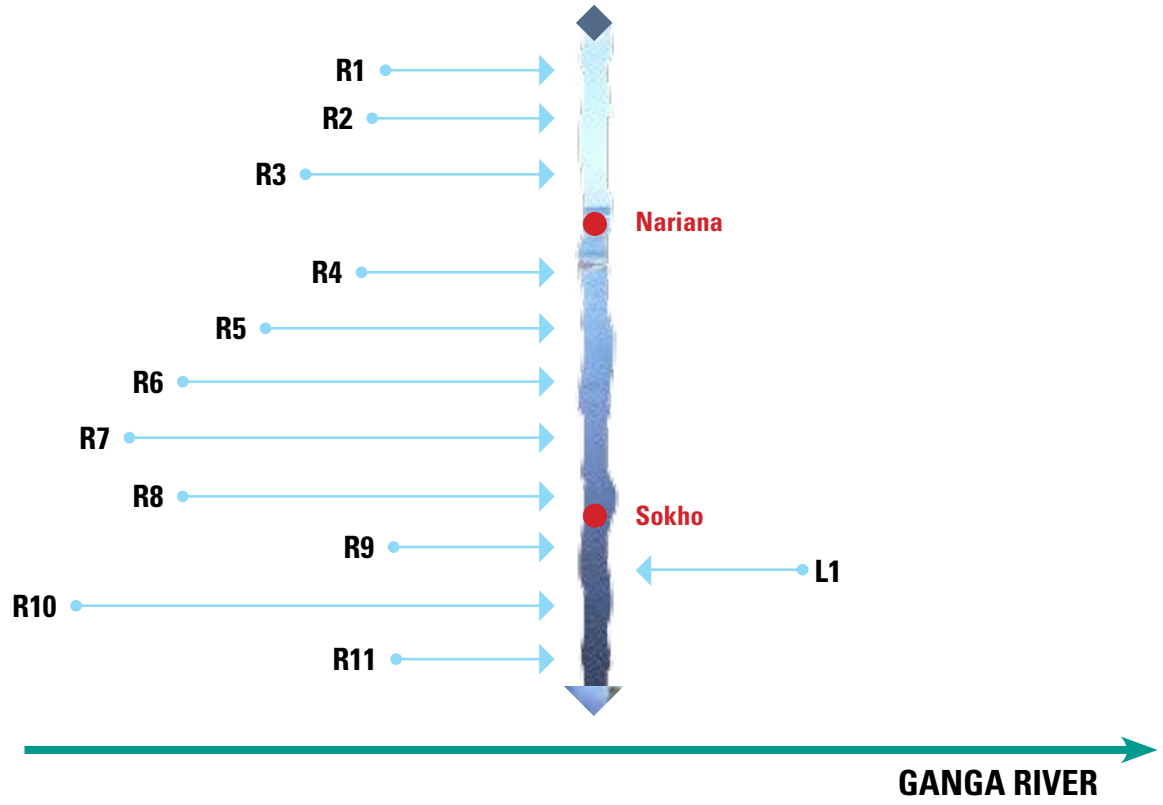


KIUL BASIN AND ITS RIVER NETWORK

Kiul River UID Code:
Basin Area: 17,680.80 Sq. Km
Number of Rivers: 337
River Network: 4060.54 Km



KIUL RIVER MAINSTEM FLOW DIAGRAM



PUNPUN RIVER MAINSTEM NETWORK						
S.No.	River Name	Confluence Bank	River Length (Km)	Confluence Co-ordinate		Distance from origin (km)
				Lat	Long	
1	Stream 4	R1	6.95	24.64	86.12	34
2	Stream 3	R2	7.99	24.81	86.10	47
3	Bunbuni River	R3	20.6	24.81	86.20	61.4
4	Bandarbari River	R4	15.6	24.80	86.19	70.7
5	Barnar River	R5	23.9	24.87	86.23	72
6	Ulai River	R6	50	24.88	86.24	78.9
7	Nakti River	R7	57.4	24.94	86.25	83.8
8	Stream 2	R8	51.2	24.98	86.23	95.7
9	Stream 1	R9	7.1	25.05	86.17	104.4
10	Mohana River / Falgu River	L1	7.71	25.12	86.14	120.6
11	Morwe River	R10	388	25.22	86.15	126.4
12	Garkhe River	R11	19.4	25.33	86.46	133.7

GARKHE BASIN AND ITS RIVER NETWORK

Garkhe River UID Code:
Basin Area: 489.36 Sq. Km
Number of Rivers: 09
River Network: 81.57 Km

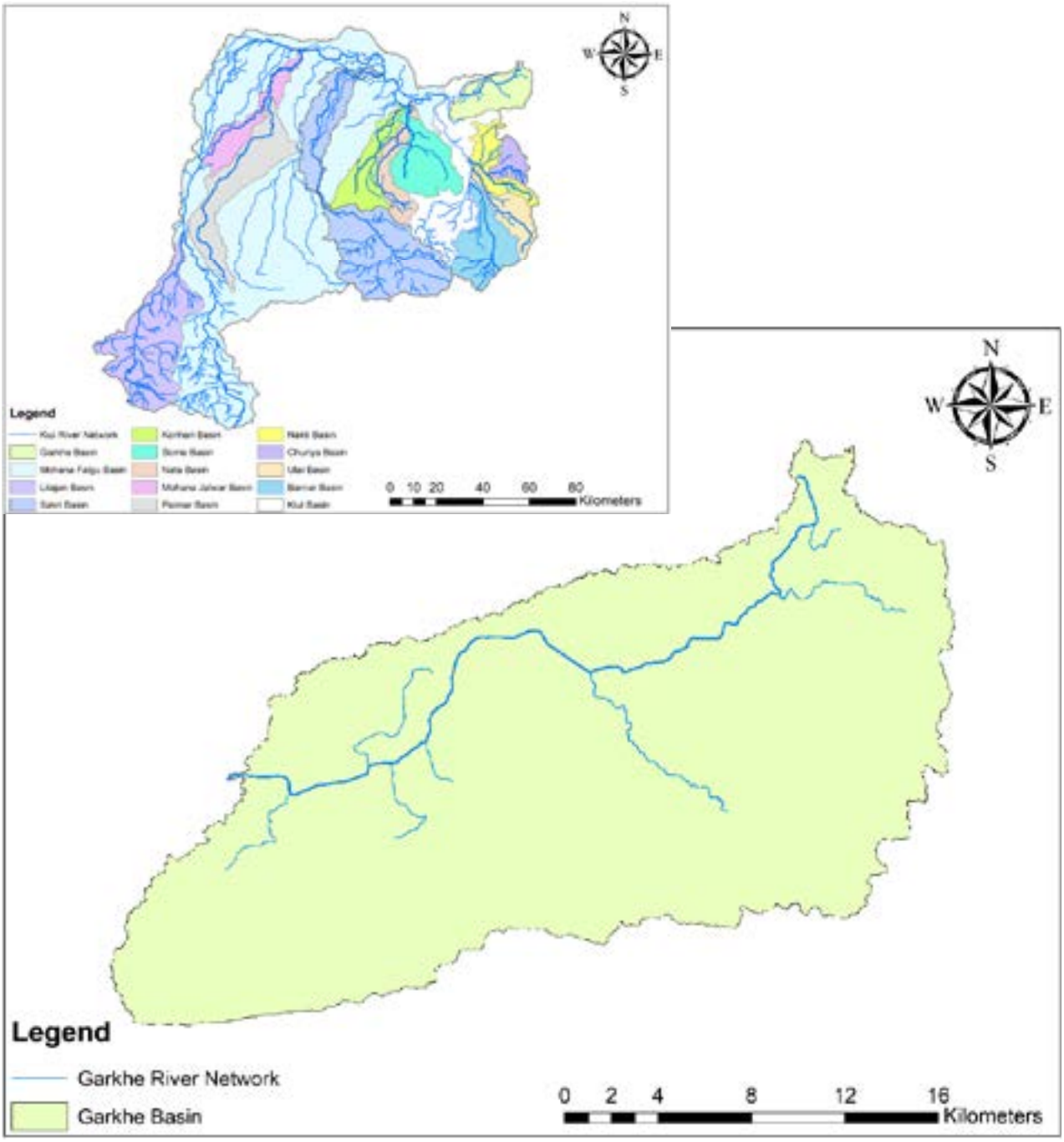


Figure: Garkhe River Network

GARKHE RIVER MAINSTEM FLOW DIAGRAM

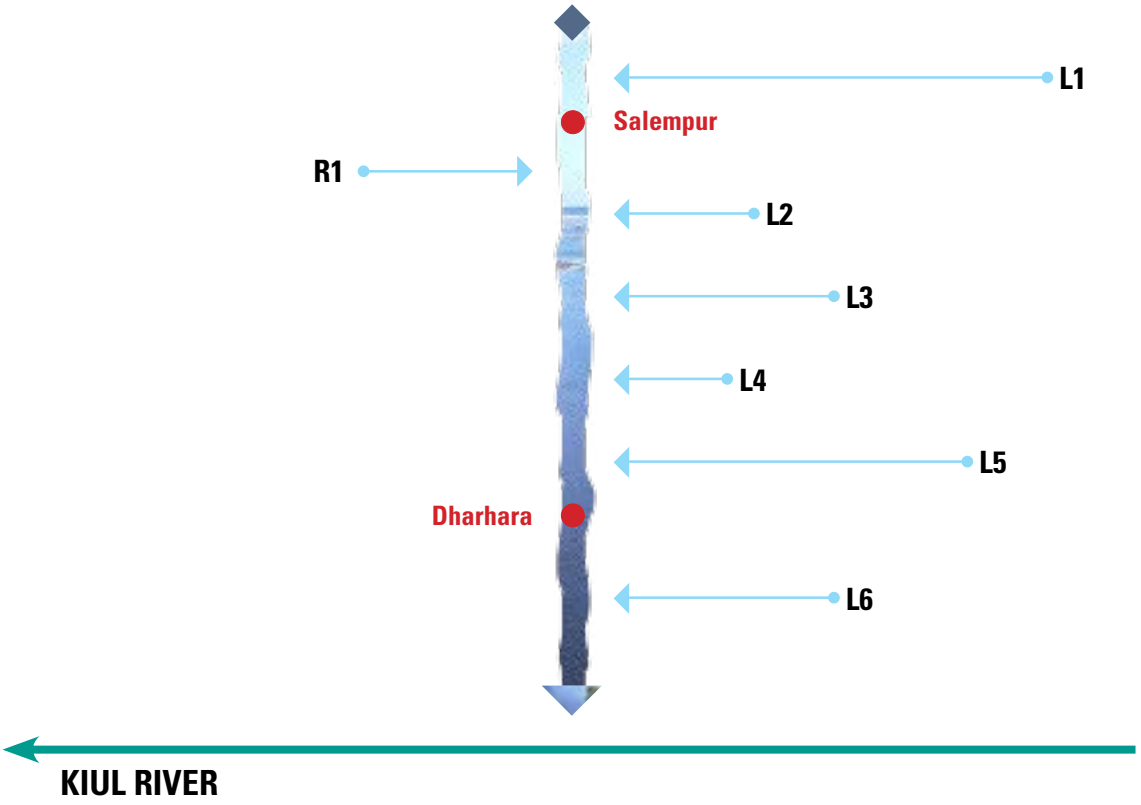
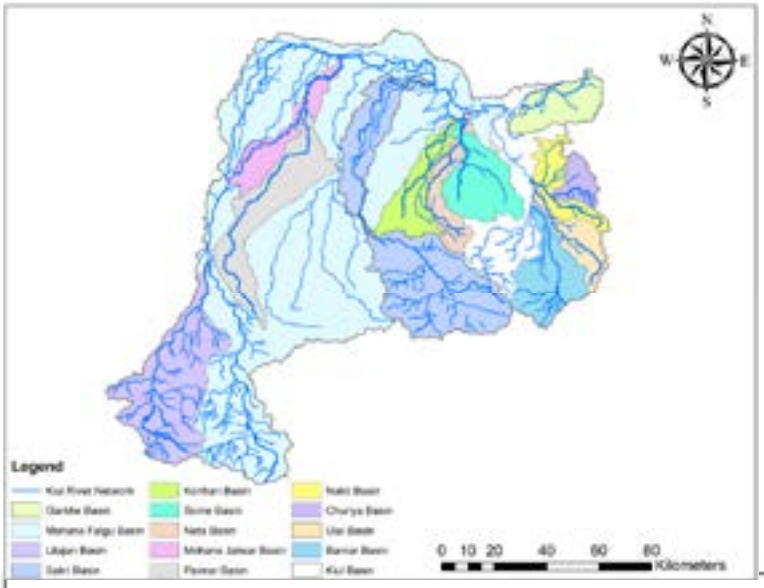


Figure: Flow Diagram of Garkhe River

GARKHE RIVER MAINSTEM NETWORK						
S.No.	River Name	Confluence Bank	River Length (Km)	Confluence Co-ordinate		Distance from origin (km)
				Lat	Long	
1	Stream 1	L 1	37.5	25.22	86.24	3.2
2	Khalkhala River	R 1	5.78	25.27	86.30	7
3	Stream 2	L 2	7.25	25.23	86.28	8
4	Stream 3	L 3	5.2	25.22	86.31	9.8
5	Stream 4	L 4	2.28	25.26	86.37	20.7
6	Stream 5	L 5	12	25.29	86.45	30.7
7	Stream 6	L 6	8.21	25.32	86.46	35.1

MOHANA-FALGU BASIN AND ITS RIVER NETWORK



Mohana-Falgu River UID Code:
Basin Area: 14426.60 Sq. Km
Number of Rivers: 252
River Network: 3735.09 Km

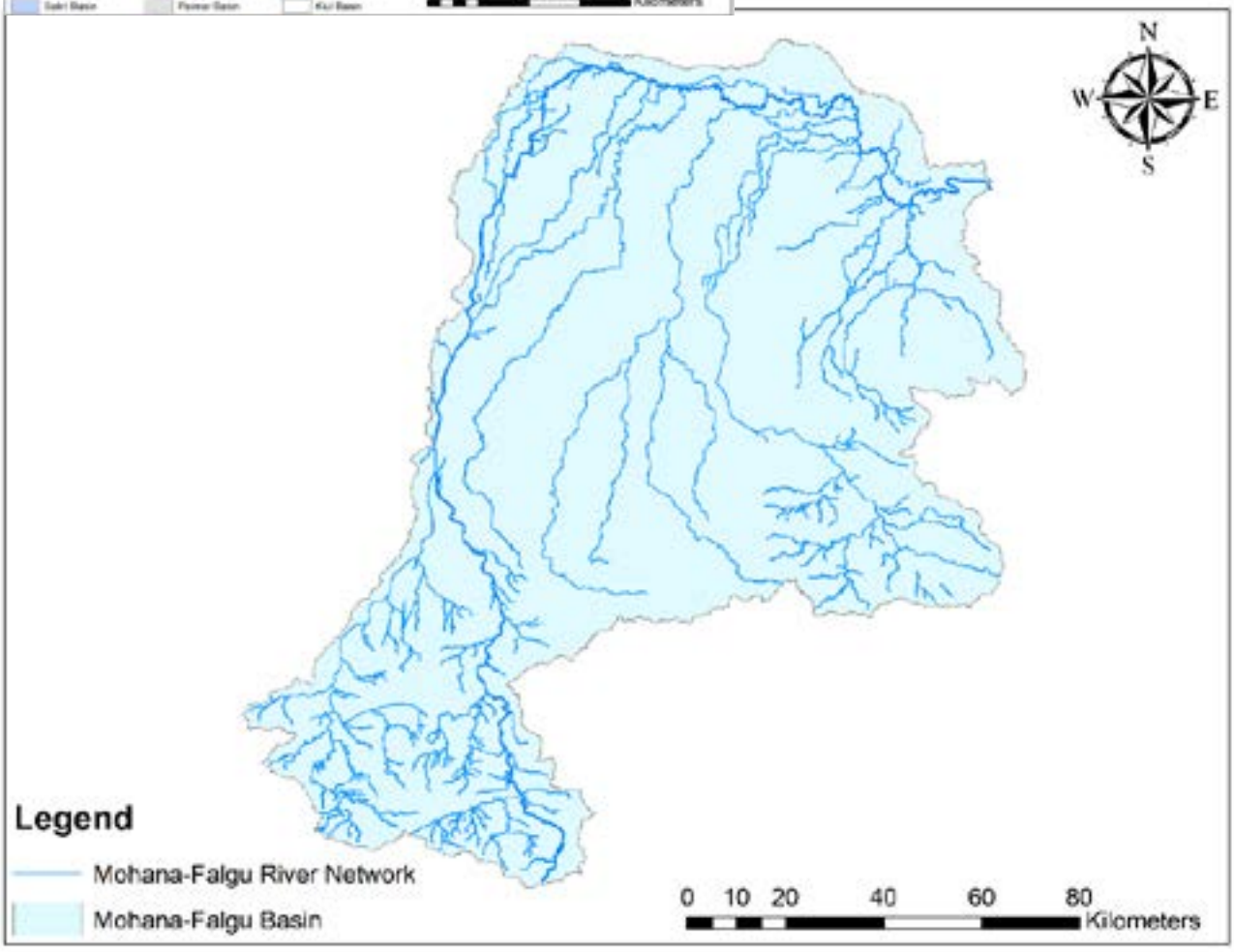


Figure: Mohana-Falgu River Network

MOHANA - FALGU RIVER MAINSTEM FLOW DIAGRAM

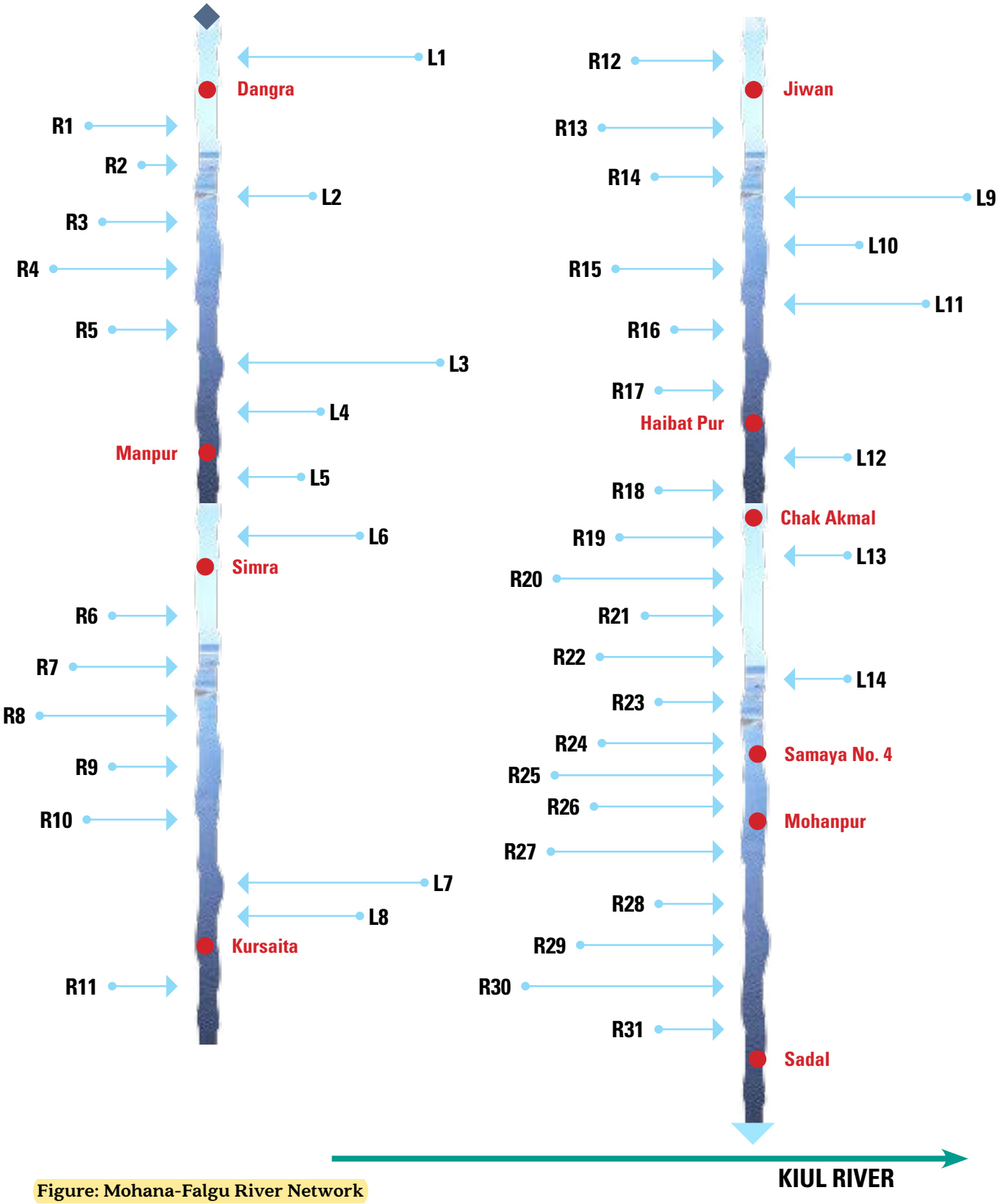


Figure: Mohana-Falgu River Network

MOHANA-FALGU RIVER MAINSTEM NETWORK						
S.No.	River Name	Confluence Bank	River Length (Km)	Confluence Co-ordinate		Distance from origin (km)
				Lat	Long	
1	Danra River	L 1	15.6	24.42	85.12	80
2	Goari Drain	R 1	11.2	24.46	85.14	85
3	Bhurha Drain	R 2	2.66	24.49	85.14	88
4	Khalrig arha Drain	L 2	4.34	24.50	85.12	91
5	Stream 23	R 3	8.56	24.53	85.13	94
6	Natane Drain	R 4	19.7	24.59	85.09	103
7	Stream 22	R 5	6.96	24.71	85.02	121
8	Lilajan River	L 3	114	24.72	85.01	123
9	Stream 21	L 4	6.26	24.78	85.01	129
10	Stream 20	L 5	3.59	24.86	85.02	137
11	Stream 19	L 6	6.64	24.95	85.05	147
12	Stream 18	R 6	3.1	24.97	85.11	151
13	Stream 17	R 7	6.86	24.99	85.14	152
14	Nonai River-Mohana Drain	R 8	83	25.44	85.46	157
15	Garbhi River	R 9	3.43	25.04	85.10	160
16	Bhuthi River	R 10	20.4	25.08	85.13	183
17	Dhowa River/ Phalgu River	L 7	52.7	25.47	85.36	184
18	Bhuthin River	L 8	7.56	25.27	85.17	189
19	Sudahi River	R 11	13.2	25.35	85.30	199
20	Stream 16	R 12	4.52	25.34	85.26	202
21	Sonr River	R 13	14.5	25.40	85.30	207
22	Stream 15	R 14	3.33	25.39	85.28	211
23	Marhhi Drain	L 9	20.7	25.40	85.25	212

MOHANA-FALGU RIVER MAINSTEM NETWORK						
S.No.	River Name	Confluence Bank	River Length (Km)	Confluence Co-ordinate		Distance from origin (km)
				Lat	Long	
24	Stream 14	L 10	3.99	25.41	85.25	213
25	Bhutahi River	L 11	8.85	25.42	85.26	215
26	Stream 13	R 15	6.65	25.46	85.33	227
27	Stream 12	R 16	2.4	25.47	85.35	231
28	Stream 11	R 17	3.88	25.46	85.37	234
29	Stream 10	L 12	3.71	25.46	85.41	240
30	Chiraia River	R 18	30.1	25.44	85.47	248
31	Stream 9	R 19	8	25.43	85.51	255
32	Goga River	L 13	23.5	25.41	85.71	
33	Panchane river	R 20	120	25.38	85.65	280
34	Bari River	R 21	4.62	25.38	85.68	283
35	Stream 8	R 22	11.8	25.37	85.78	302
36	Stream 7	L 14	16.3	25.39	85.84	312
37	Stream 6	R 23	4.1	25.39	85.87	318
38	Stream 5	R 24	15.1	25.35	85.88	325
39	Sakri river	R 25	177	25.31	85.88	331
40	Stream 4	R 26	9.36	25.29	85.89	334
41	Bandar Drain	R 27	27.7	25.29	85.94	341
42	Stream 2	R 28	9.96	25.24	85.93	349
43	Tati/Kaljug River	R 29	38.7	25.21	85.94	352.5
44	Korihari River	R 30	65.5	25.19	85.97	357.4
45	Some River	R 31	4.4	25.19	85.99	360.3

LILAJAN BASIN AND ITS RIVER NETWORK

Lilajan River UID Code:
Basin Area: 1474.34 Sq. Km
Number of Rivers: 65
River Network: 581.70 Km

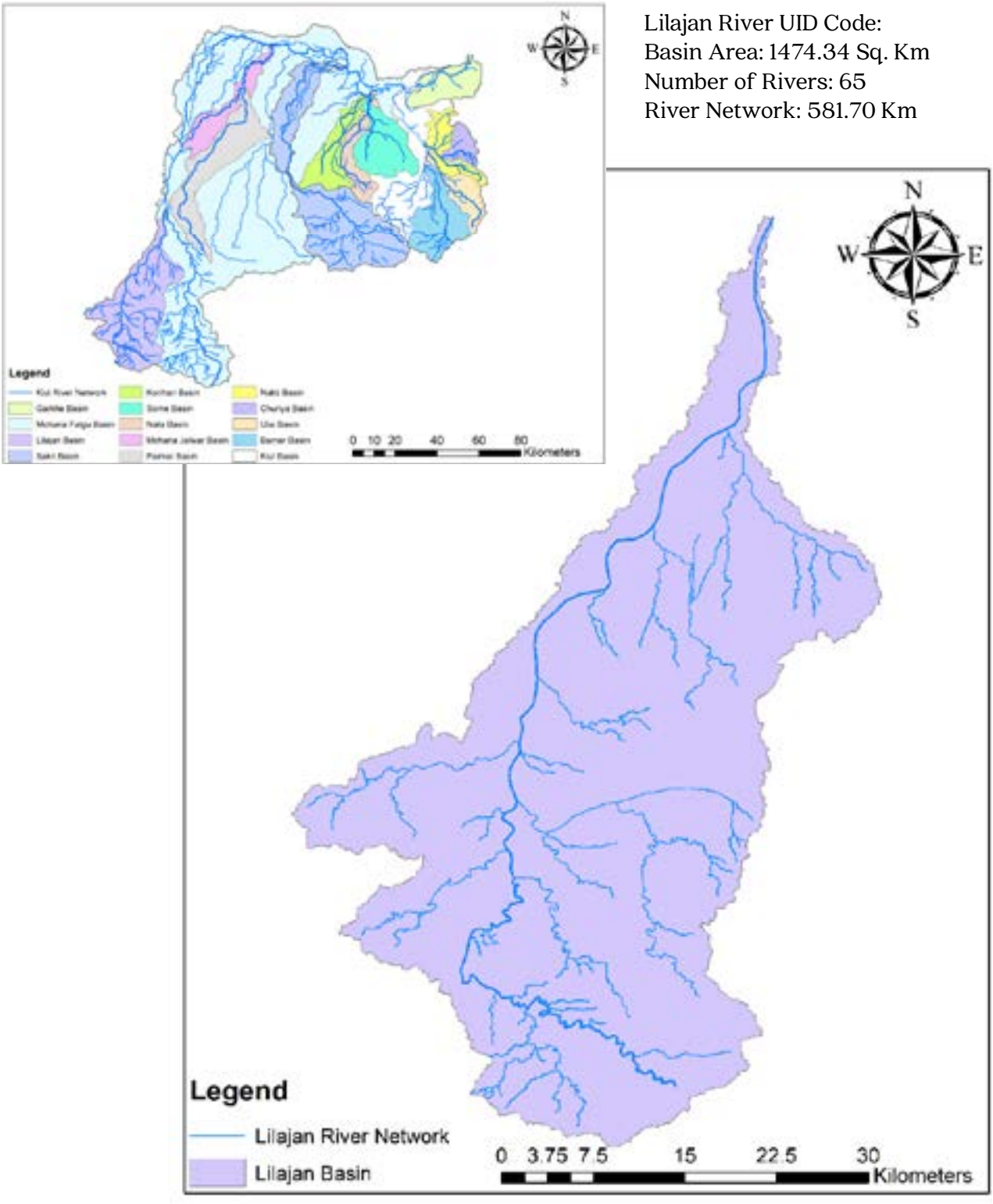


Figure: Lilajan River Network

LILAJAN RIVER MAINSTEM FLOW DIAGRAM

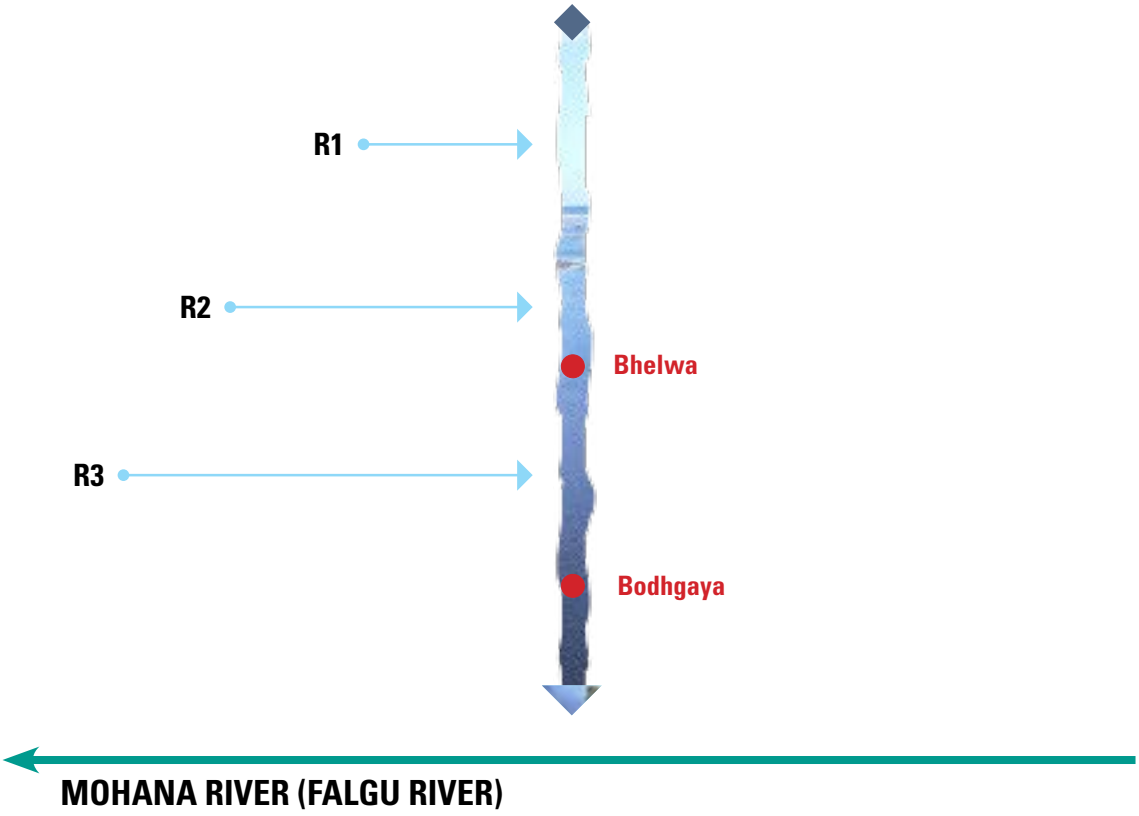


Figure: Flow Diagram of Lilajana River

LILAJAN RIVER MAINSTEM NETWORK						
S.No.	River Name	Confluence Bank	River Length (Km)	Confluence Co-ordinate		Distance from origin (km)
				Lat	Long	
1	Langura Drain	R1	8.76	24.45	84.87	75.7
2	Dhardhari River	R2	21	24.50	84.91	83.4
3	Gulshakri River	R3	19.3	24.57	84.97	94.3

SAKRI BASIN AND ITS RIVER NETWORK

Sakri River UID Code:
Basin Area: 2167.06 Sq. Km
Number of Rivers: 54
River Network: 701.50 Km

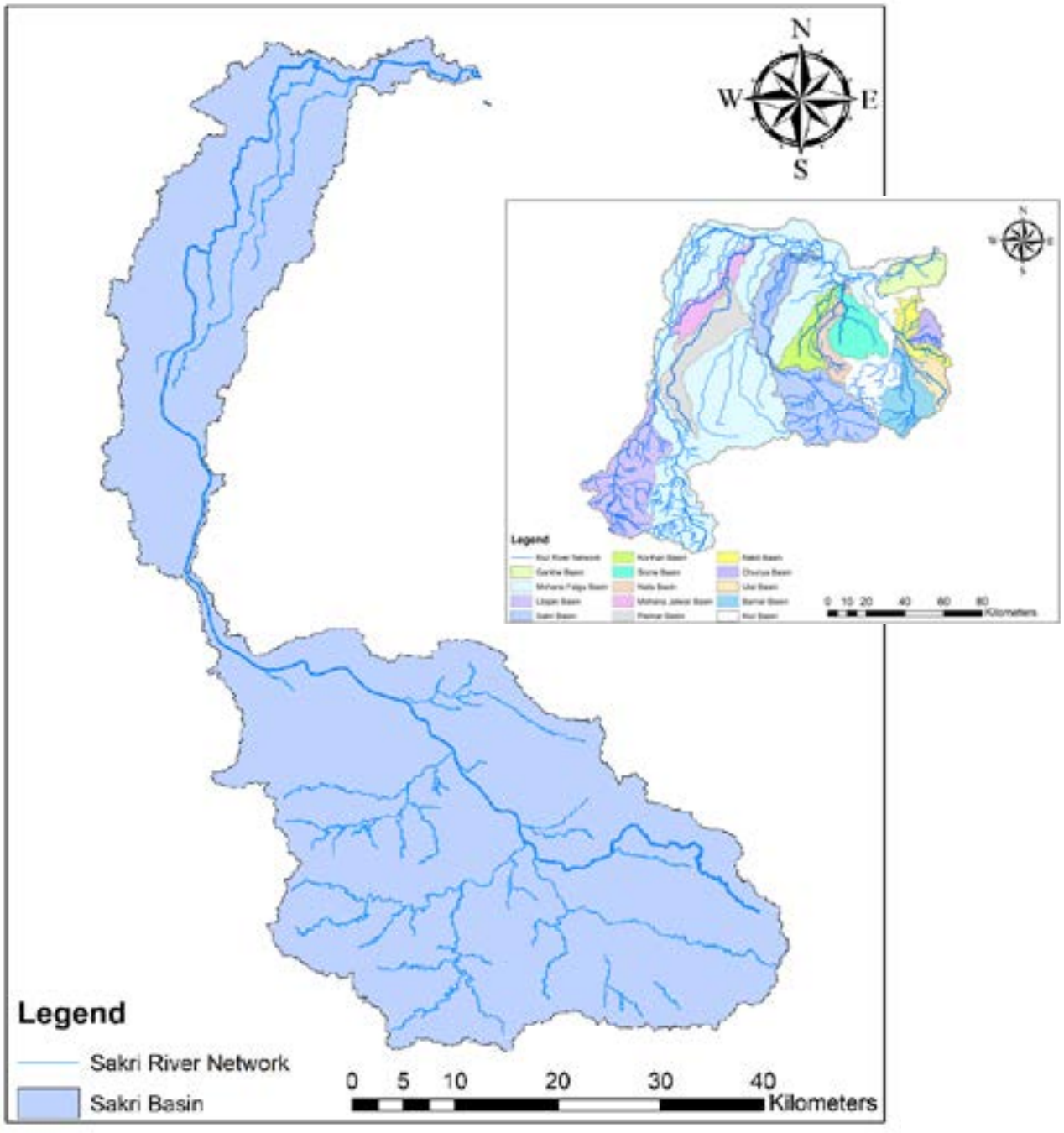


Figure: Sakri River Network

SAKRI RIVER MAINSTEM FLOW DIAGRAM

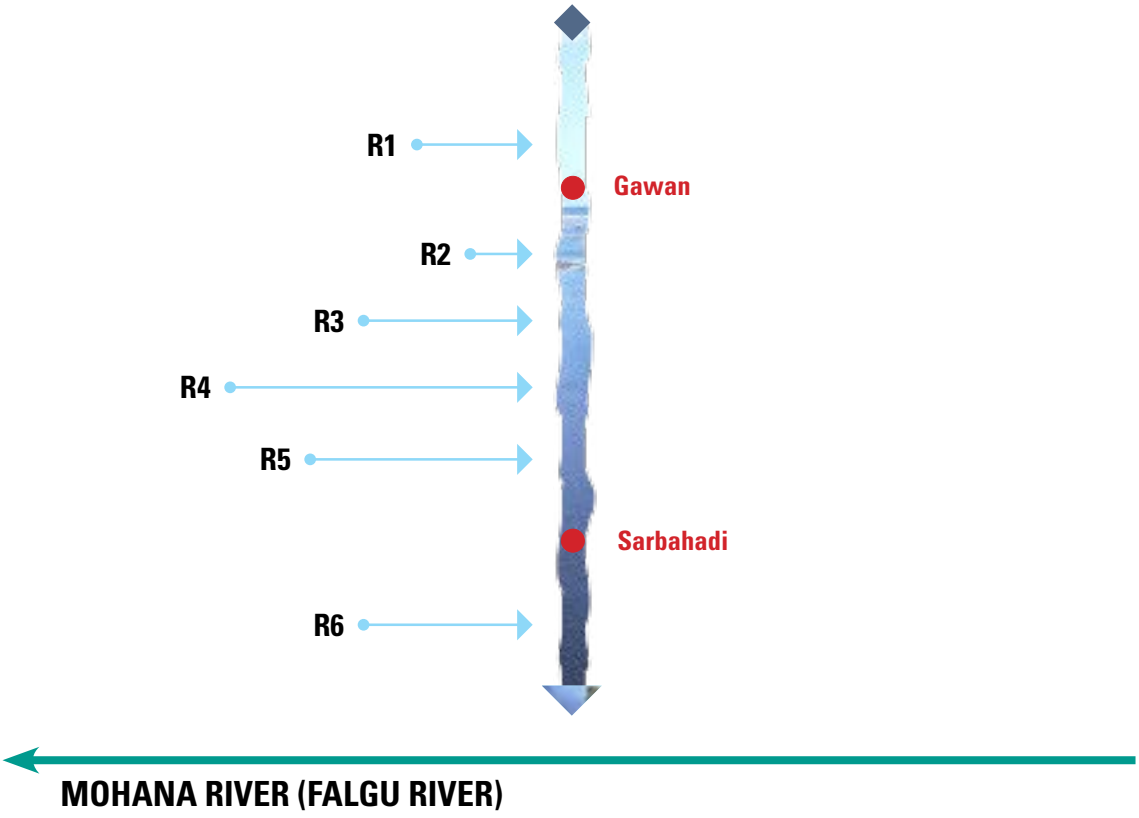


Figure: Flow Diagram of Sakri River

SAKRI RIVER MAINSTEM NETWORK						
S.No.	River Name	Confluence Bank	River Length (Km)	Confluence Co-ordinate		Distance from origin (km)
				Lat	Long	
1	Stream 3	R 1	4.35	24.78	85.66	
2	Stream 2	R 2	3.77	25.08	85.58	
3	Stream 1	R 3	6.36	25.16	85.62	
4	Kumhari River	R 4	45.3	25.33	85.73	156.2
5	Naunia Drain	R 5	28.7	25.31	85.76	160.7
6	Dhanahiya River	R 6	14.7	25.31	85.88	176

KORIHARI BASIN AND ITS RIVER NETWORK

Korihari River UID Code:
Basin Area: 511.05 Sq. Km
Number of Rivers: 08
River Network: 133.38 Km

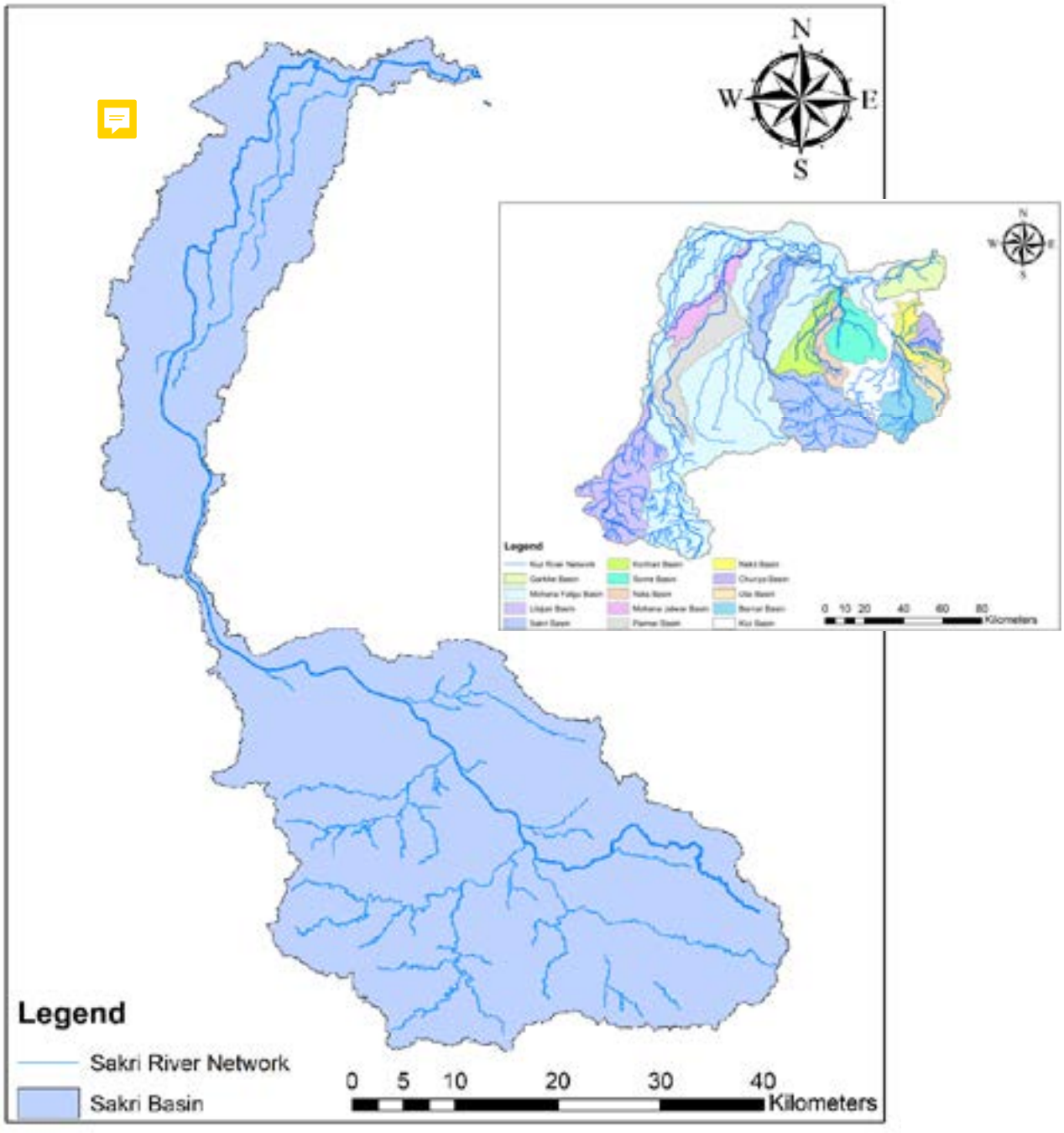


Figure: Korihari River Network

KORIHARI RIVER MAINSTEM FLOW DIAGRAM

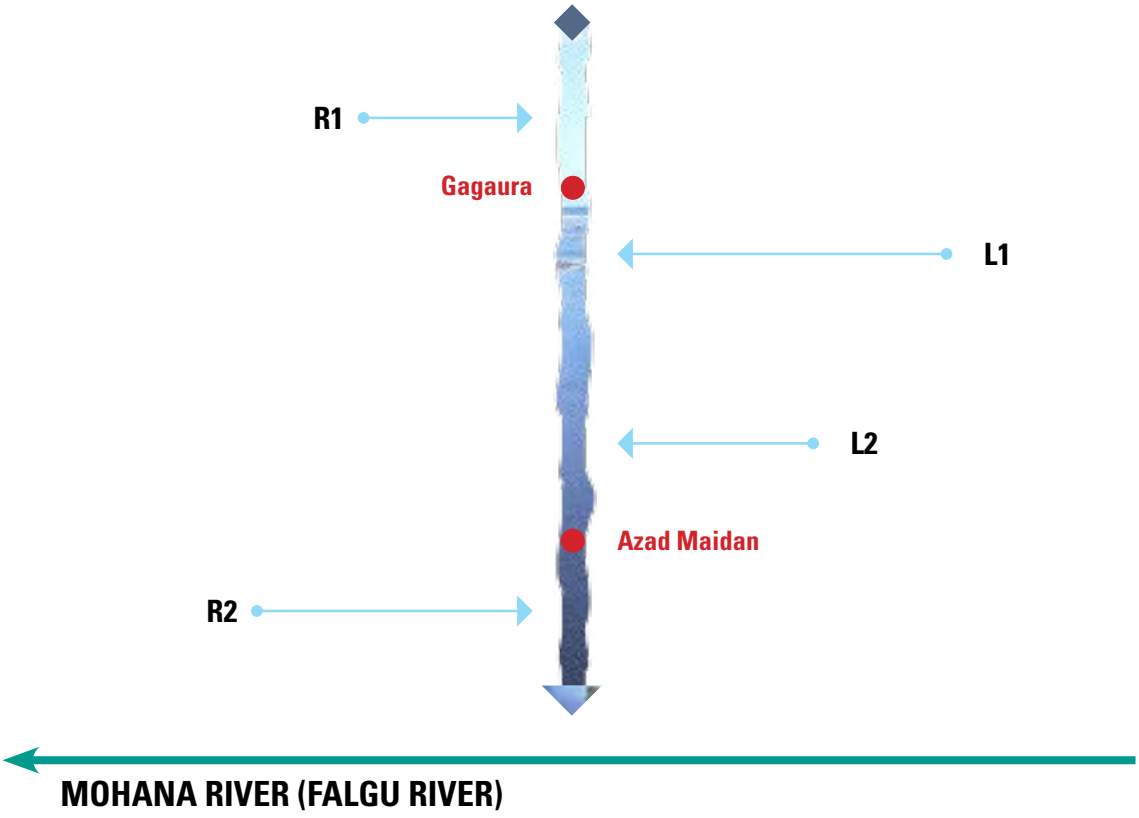


Figure: Flow Diagram of Korihari River

KORIHARI RIVER (MAIN STEAM NETWORK)						
S.No.	River Name	Confluence Bank	River Length (Km)	Confluence Co-ordinate		Distance from origin (km)
				Lat	Long	
1	Stream 2	R 1	5.14	24.95	85.76	14.1
2	Baghail River	L 1	28	25.01	85.84	29.5
3	Korihari River	L 2	10.2	24.94	85.81	33.1
4	Stream 1	R 2	16.2	25.07	85.93	57.2

SOME BASIN AND ITS RIVER NETWORK

Some River UID Code:
Basin Area: 1048.83 Sq. Km
Number of Rivers: 14
River Network: 231.81 Km

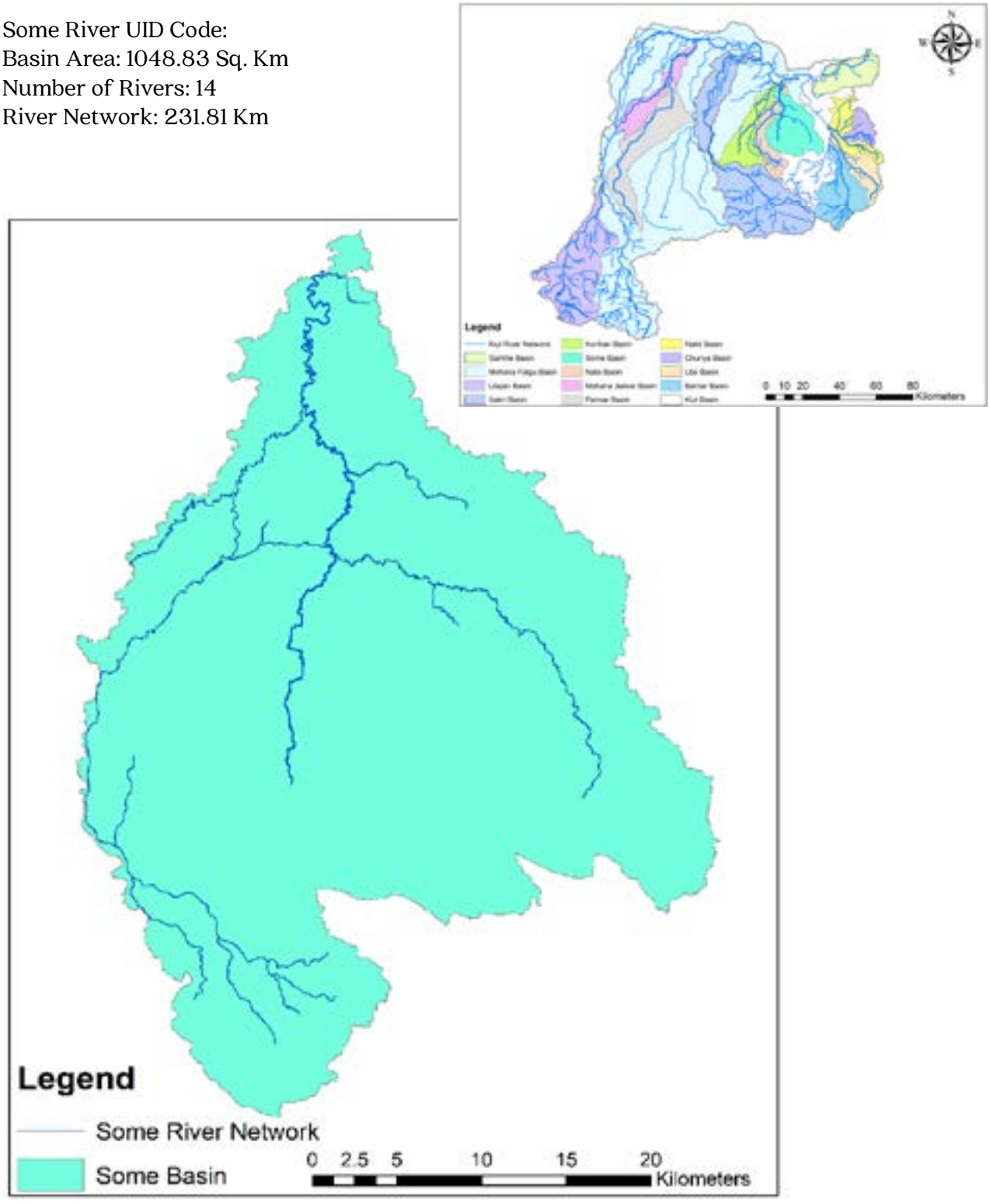


Figure: Some River Network

SOME RIVER MAINSTEM FLOW DIAGRAM

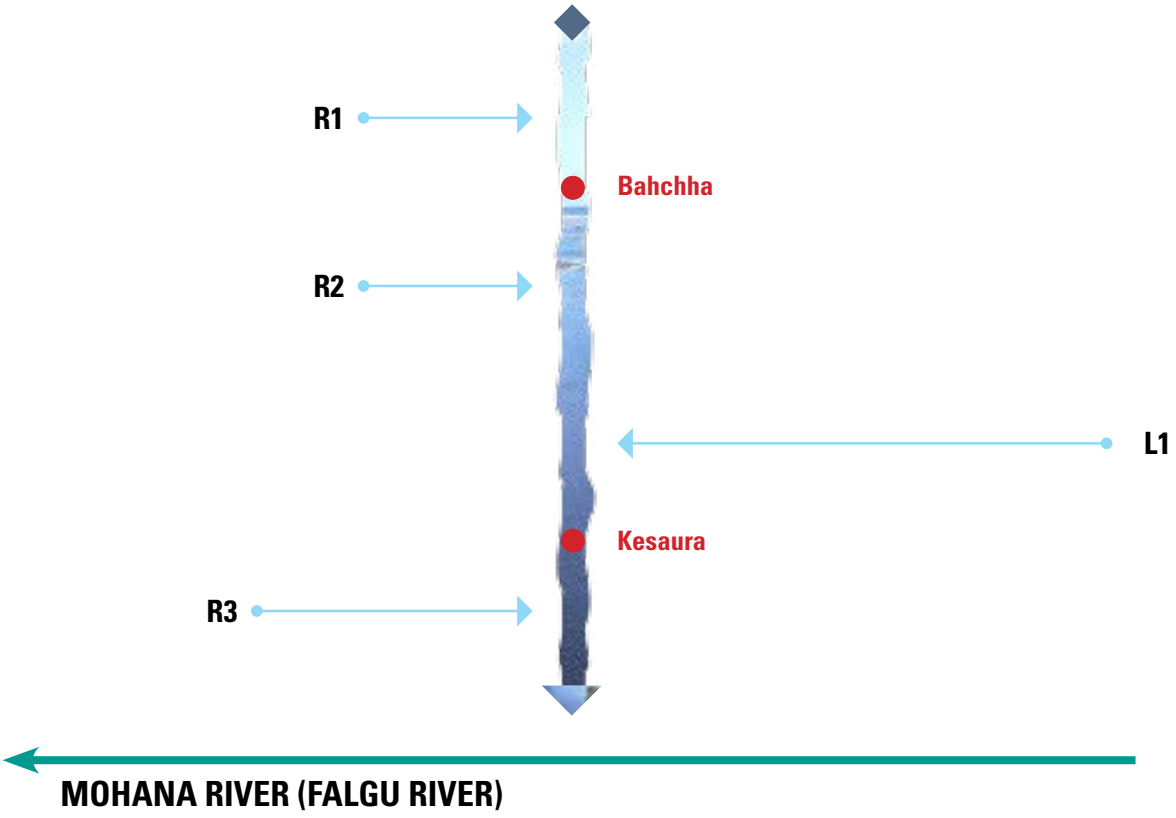


Figure: Flow Diagram of Some River

SOME RIVER (MAIN STEAM NETWORK)						
S.No.	River Name	Confluence Bank	River Length (Km)	Confluence Co-ordinate		Distance from origin (km)
				Lat	Long	
1	Bhurha Drain	R 1	36.4	25.04	85.99	20
2	Some river 2	R 2	11.6	25.08	86.00	29
3	Nata River	L 1	61.7	25.12	85.98	37.6
4	Stream 1	R 3	4.4	25.19	85.99	56.14

NATA BASIN AND ITS RIVER NETWORK

Nata River UID Code:
Basin Area: 340.31 Sq. Km
Number of Rivers: 11
River Network: 122.95 Km

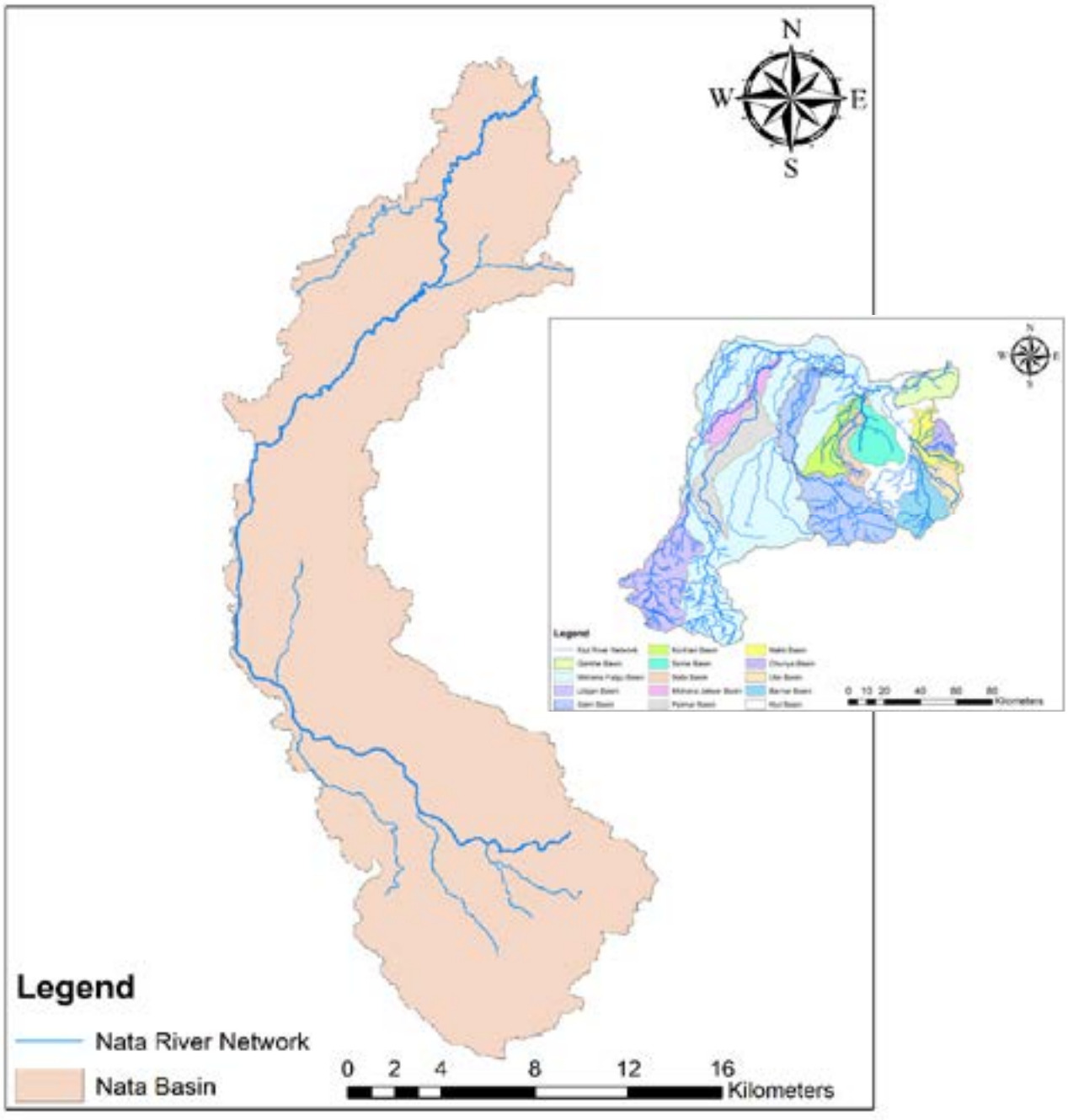


Figure: Nata River Network

NATA RIVER MAINSTEM FLOW DIAGRAM

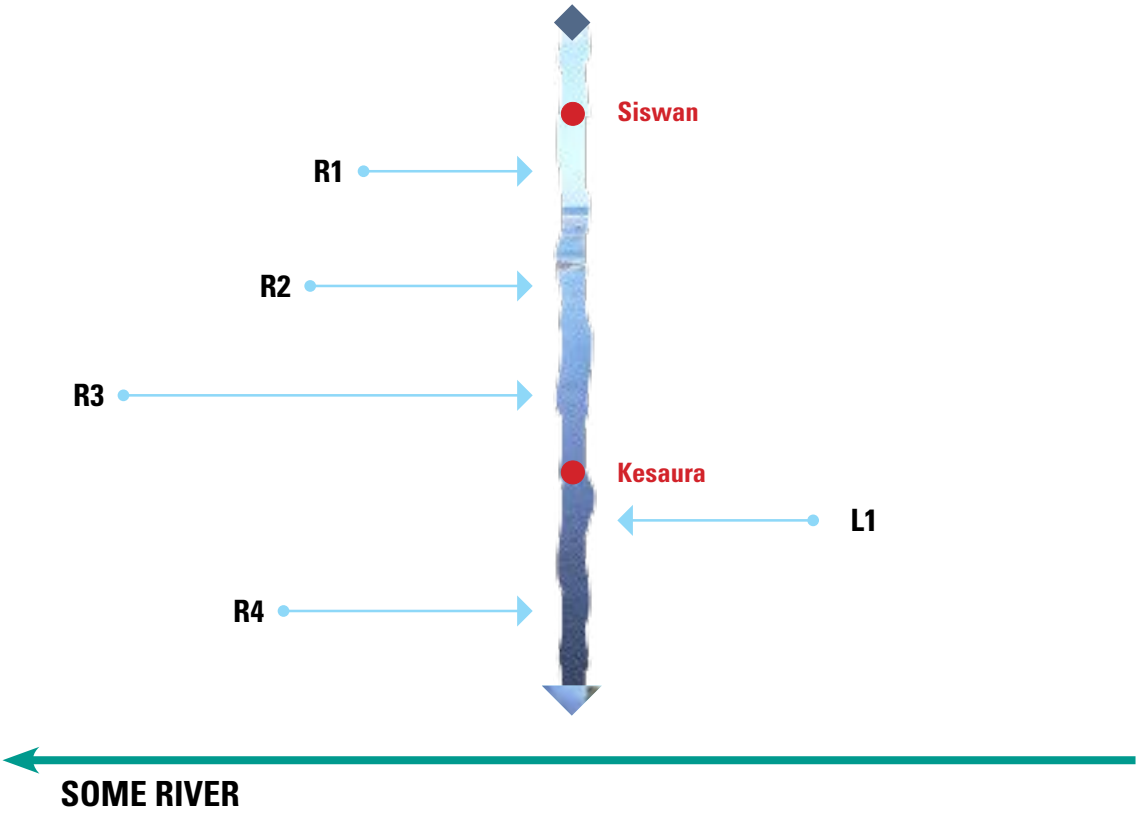


Figure: Flow Diagram of Nata River

NATA RIVER (MAIN STEAM NETWORK)						
S.No.	River Name	Confluence Bank	River Length (Km)	Confluence Co-ordinate		Distance from origin (km)
				Lat	Long	
1	Stream 5	R1	5.8	24.82	85.94	4.9
2	Stream 4	R2	8.19	24.83	85.91	8.6
3	Stream 3	R3	11.3	24.86	85.87	16.1
4	Stream 2	L1	6.1	24.93	85.87	18.3
5	Stream 1	R4	6.92	25.04	85.99	45

MOHANA-JALWAR BASIN AND ITS RIVER NETWORK

Mohana-Jalawar River UID Code:
Basin Area: 1508.85 Sq. Km
Number of Rivers: 01
River Network: 106.75 Km

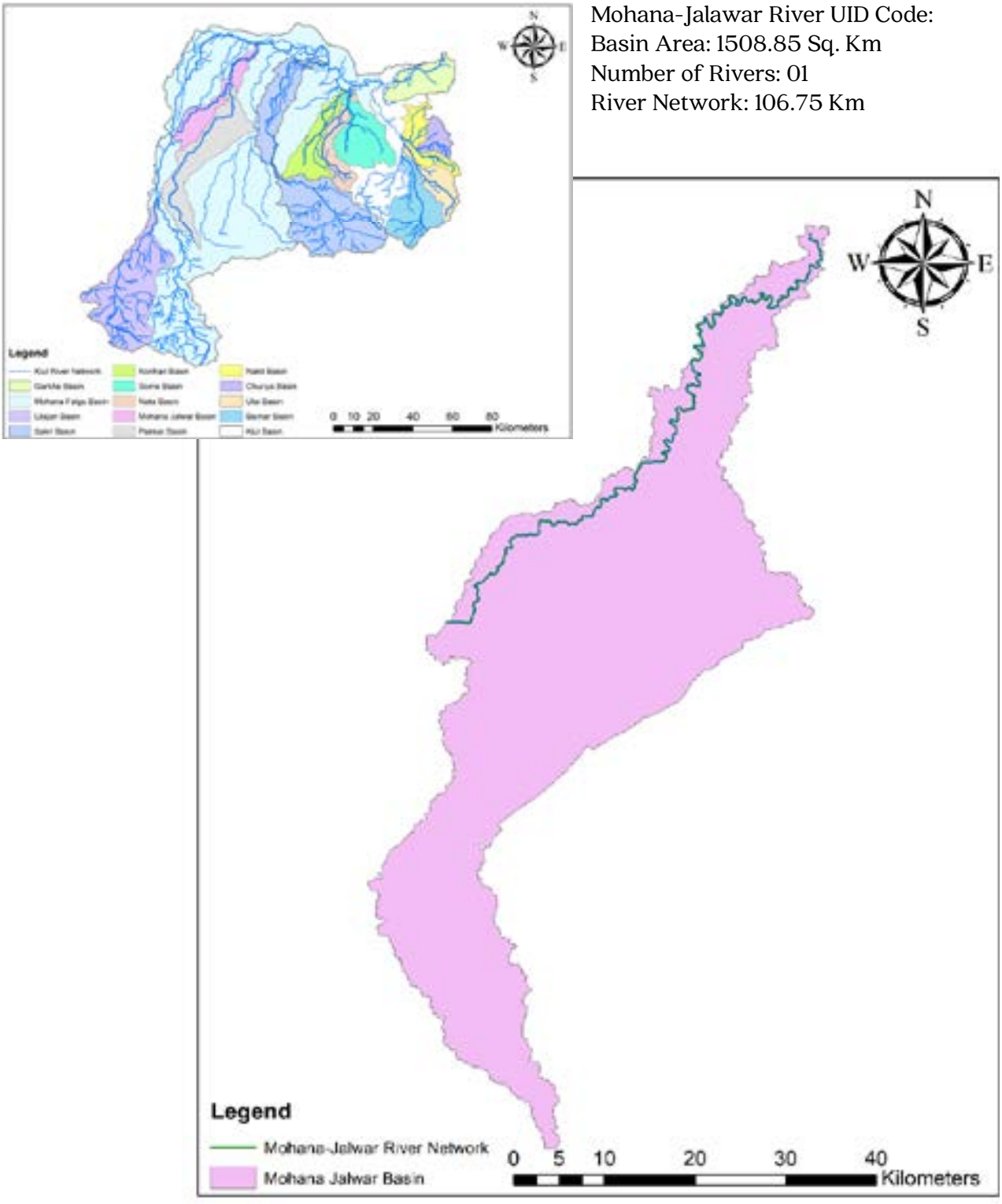


Figure: Mohana-Jalwar River Network

MOHANA -JALWAR RIVER MAINSTEM FLOW DIAGRAM

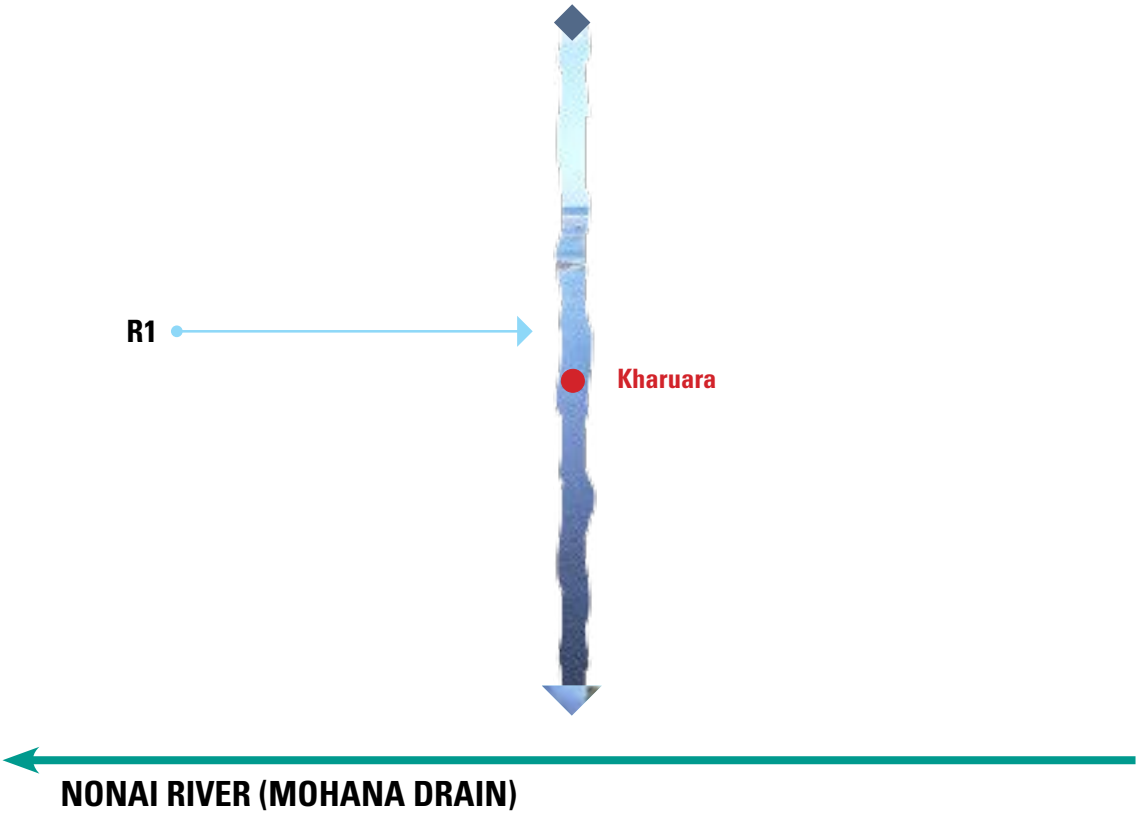


Figure: Flow Diagram of Mohana - Jalwar River

MOHANA RIVER-JALWAR RIVER MAINSTEM NETWORK						
S.No.	River Name	Confluence Bank	River Length (Km)	Confluence Co-ordinate		Distance from origin (km)
				Lat	Long	
1	Paimar River	R1	140	25.24	85.40	55

PAIMAR BASIN AND ITS RIVER NETWORK

Paimar River UID Code:
Basin Area: 1047.58 Sq. Km
Number of Rivers: 05
River Network: 135.75 Km

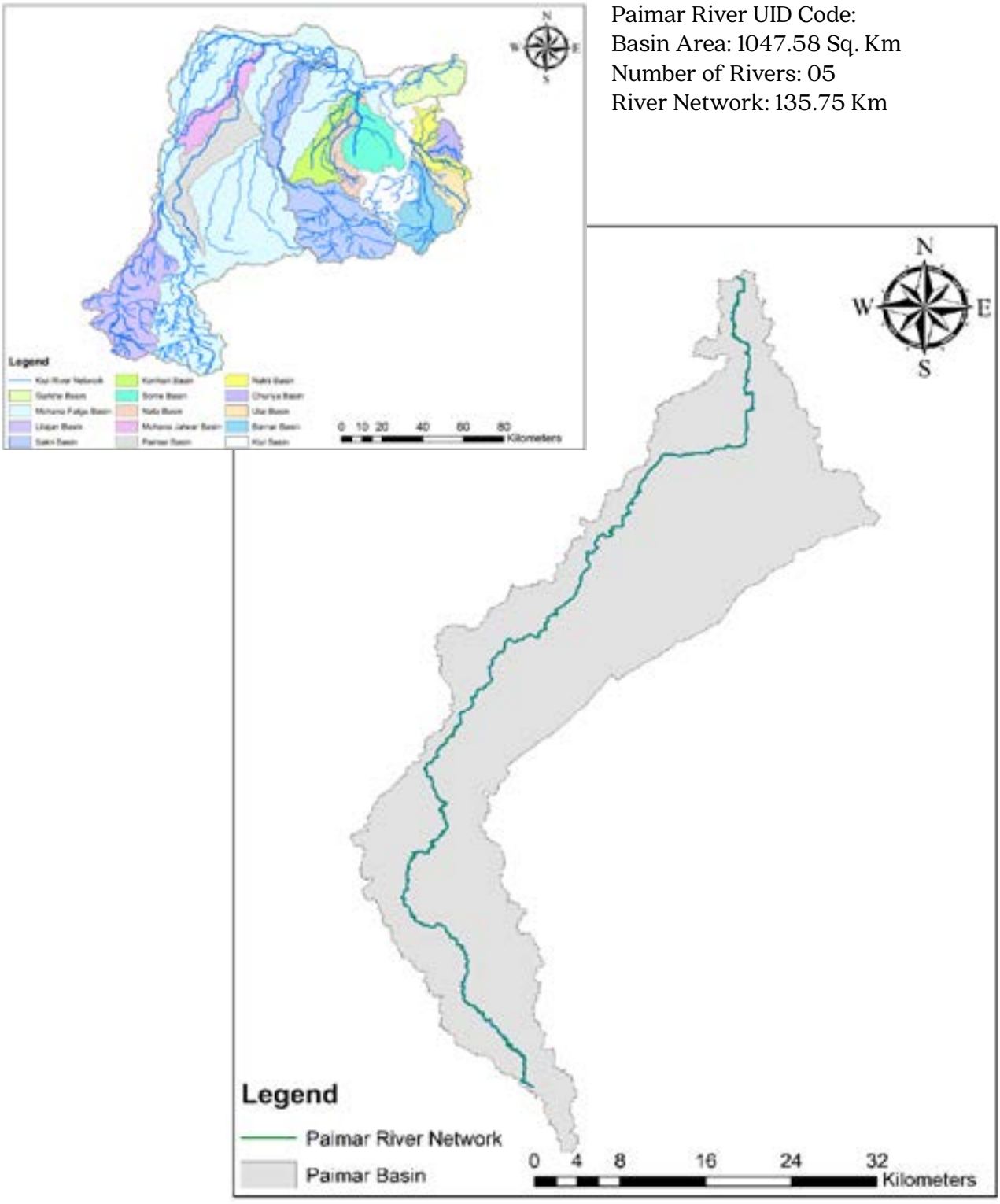


Figure: Paimar River Network

PAIMAR RIVER MAINSTEM FLOW DIAGRAM

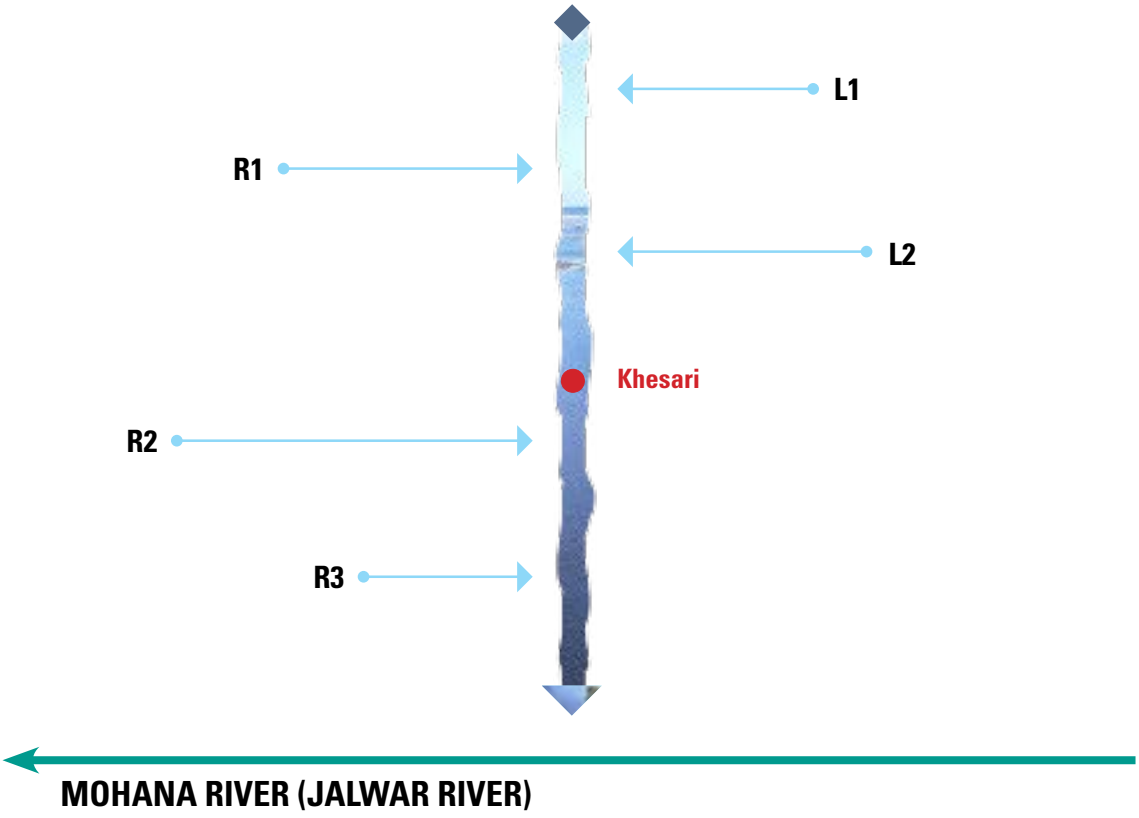


Figure: Flow Diagram of Paimar River

PAIMAR RIVER MAINSTEM NETWORK						
S.No.	River Name	Confluence Bank	River Length (Km)	Confluence Co-ordinate		Distance from origin (km)
				Lat	Long	
1	Stream 3	L1	4.17	24.58	85.17	5
2	Bansi River	R1	20	24.77	85.11	45.1
3	Stream 2	L2	6.17	24.80	85.10	50
4	Aliani River	R2	21	24.96	85.22	78.4
5	Stream 1	R3	11.5	25.13	85.41	116.5

NAKTI BASIN AND ITS RIVER NETWORK

Nakti River UID Code:
Basin Area: 584.52 Sq. Km
Number of Rivers: 17
River Network: 194.24 Km

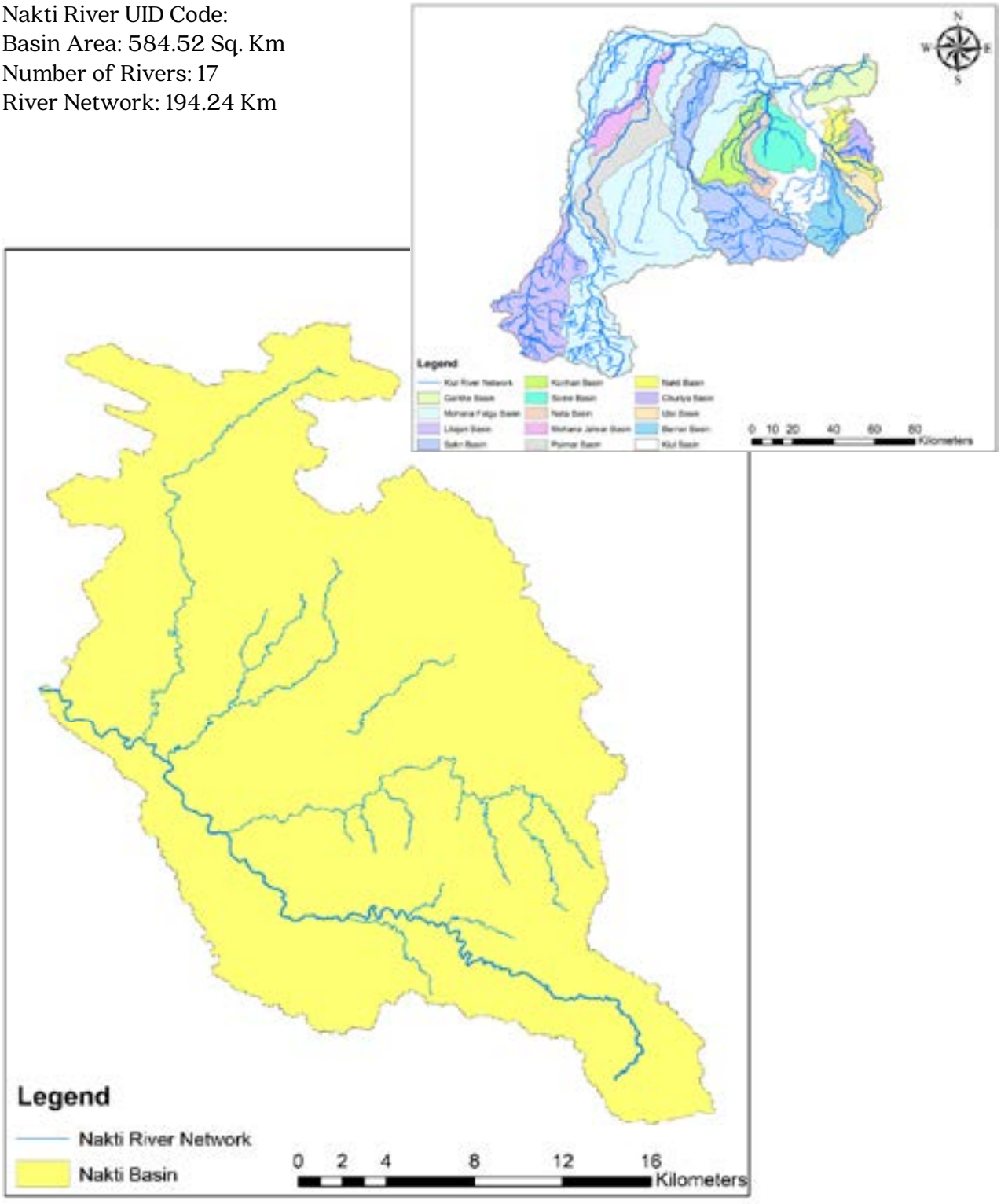


Figure: Nakti River Network

NAKTI RIVER MAINSTEM FLOW DIAGRAM

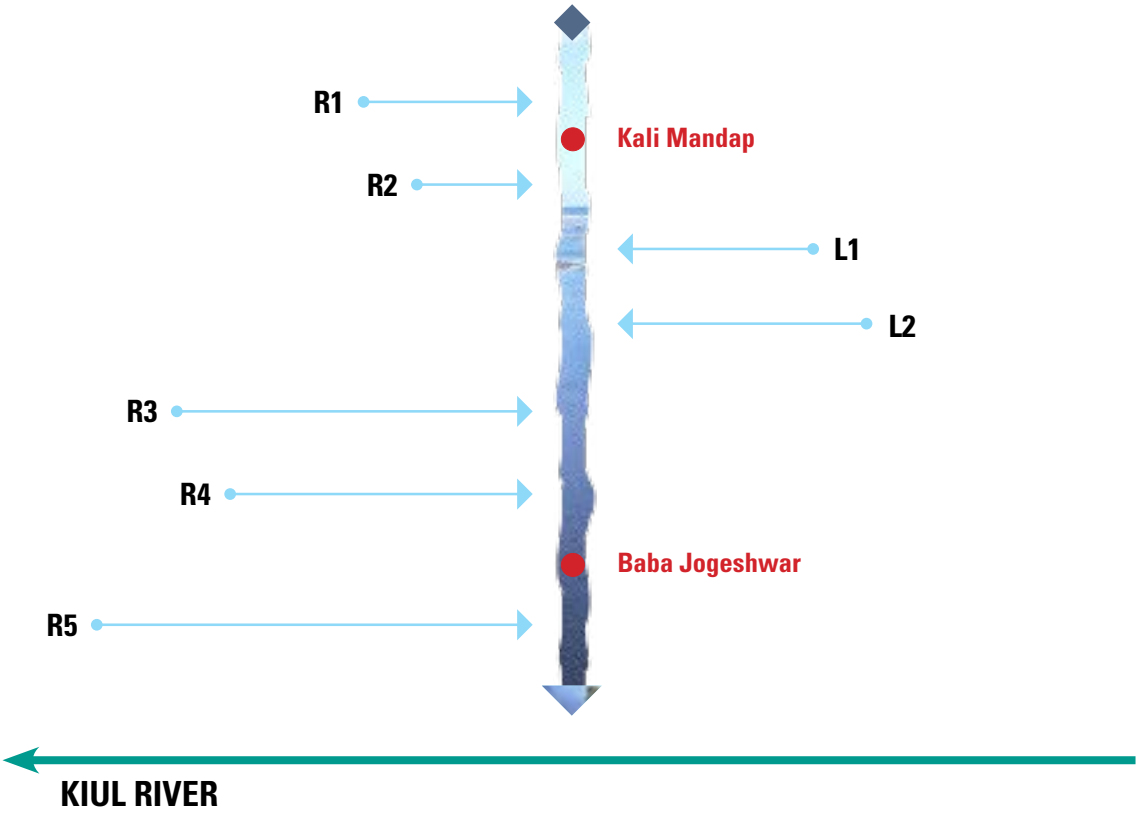


Figure: Flow Diagram of Nakti River

NAKTI RIVER (MAIN STEAM NETWORK)						
S.No.	River Name	Confluence Bank	River Length (Km)	Confluence Co-ordinate		Distance from origin (km)
				Lat	Long	
1	Stream 4	R 1	4.63	24.87	86.41	18.8
2	Stream 3	R 2	3.47	24.88	86.39	21.2
3	Stream 2	L 1	7.94	24.88	86.37	25.9
4	Stream 1	L 2	4.58	24.90	86.32	32.5
5	Churiya River/ Bajan River	R 3	29.2	24.92	86.31	35.6
6	Kharwar River	R 4	20.8	24.95	86.29	41
7	Anjan River	R 5	31.5	24.96	86.28	43.04

CHURIYA BASIN AND ITS RIVER NETWORK

Churiya River UID Code:
Basin Area: 207.31 Sq. Km
Number of Rivers: 09
River Network: 61.90 Km

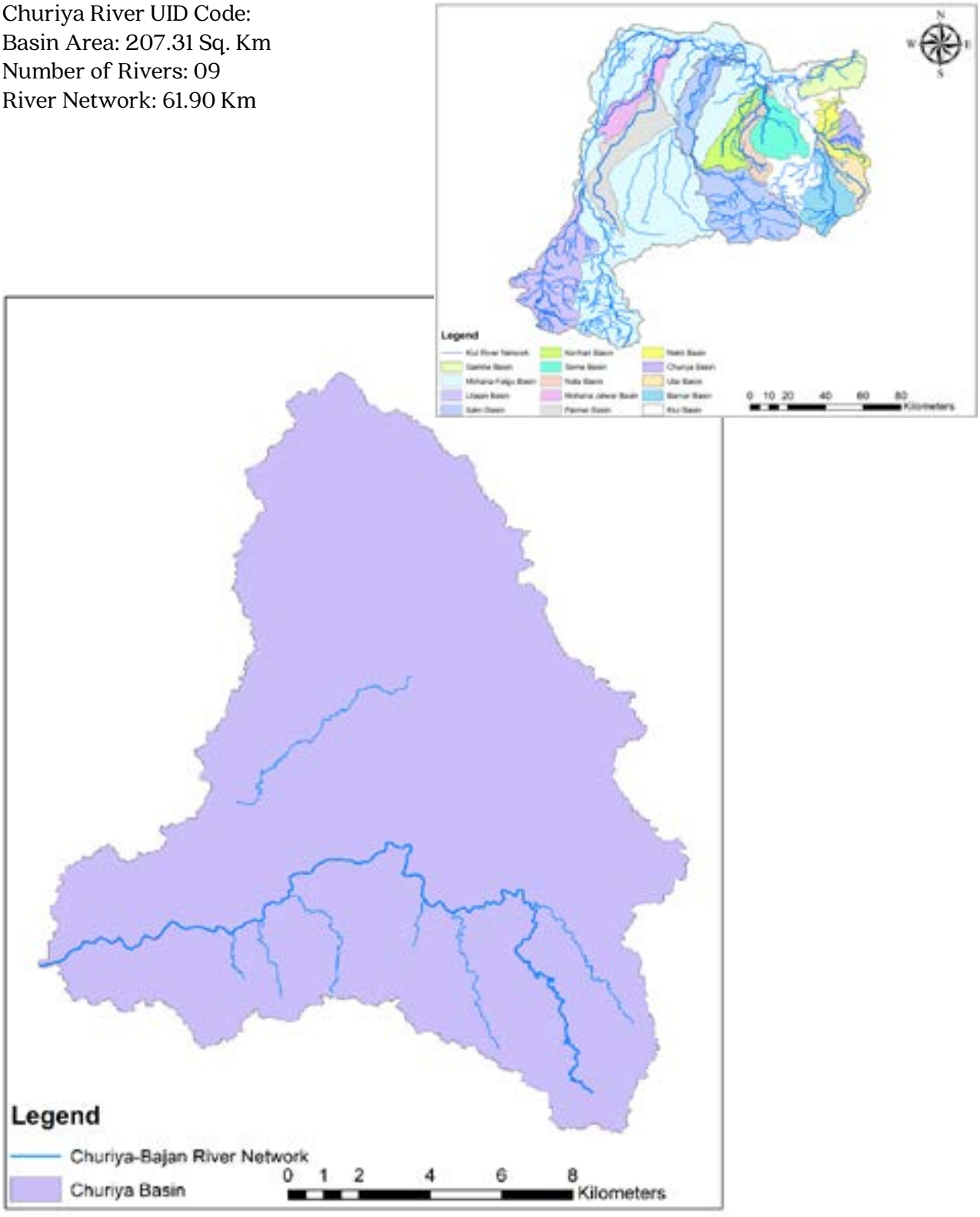


Figure: Churiya River Network

CHURIYA RIVER MAINSTEM FLOW DIAGRAM

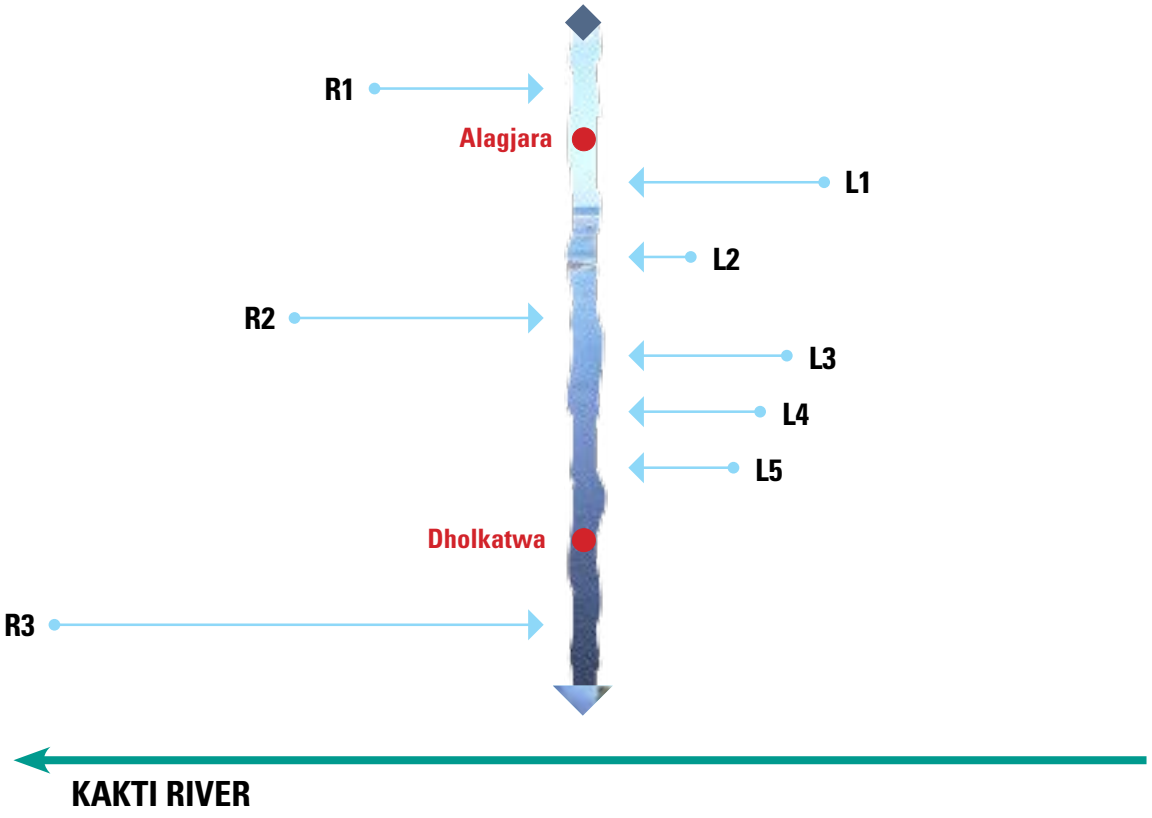


Figure: Flow Diagram of Churiya River

CHURIYA/BHAJAN RIVER (MAIN STEAM NETWORK)						
S.No.	River Name	Confluence Bank	River Length (Km)	Confluence Co-ordinate		Distance from origin (km)
				Lat	Long	
1	Stream 7	R 1	6.14	24.93	86.45	8.7
2	Stream 6	L 1	6	24.92	86.43	12.2
3	Stream 5	L 2	1.64	24.93	86.42	13.4
4	Bhonr River	R 2	10.1	24.94	86.41	15.8
5	Stream 4	L 3	4.7	24.93	86.38	19.8
6	Stream 3	L 4	3.2	24.92	86.37	21.52
7	Stream 2	L 5	2	24.92	86.37	22.4
8	Stream 1	R 3	25	24.92	86.35	23.8

ULAI BASIN AND ITS RIVER NETWORK

Ulai River UID Code:
Basin Area: 353.59 Sq. Km
Number of Rivers: 06
River Network: 92.11 Km

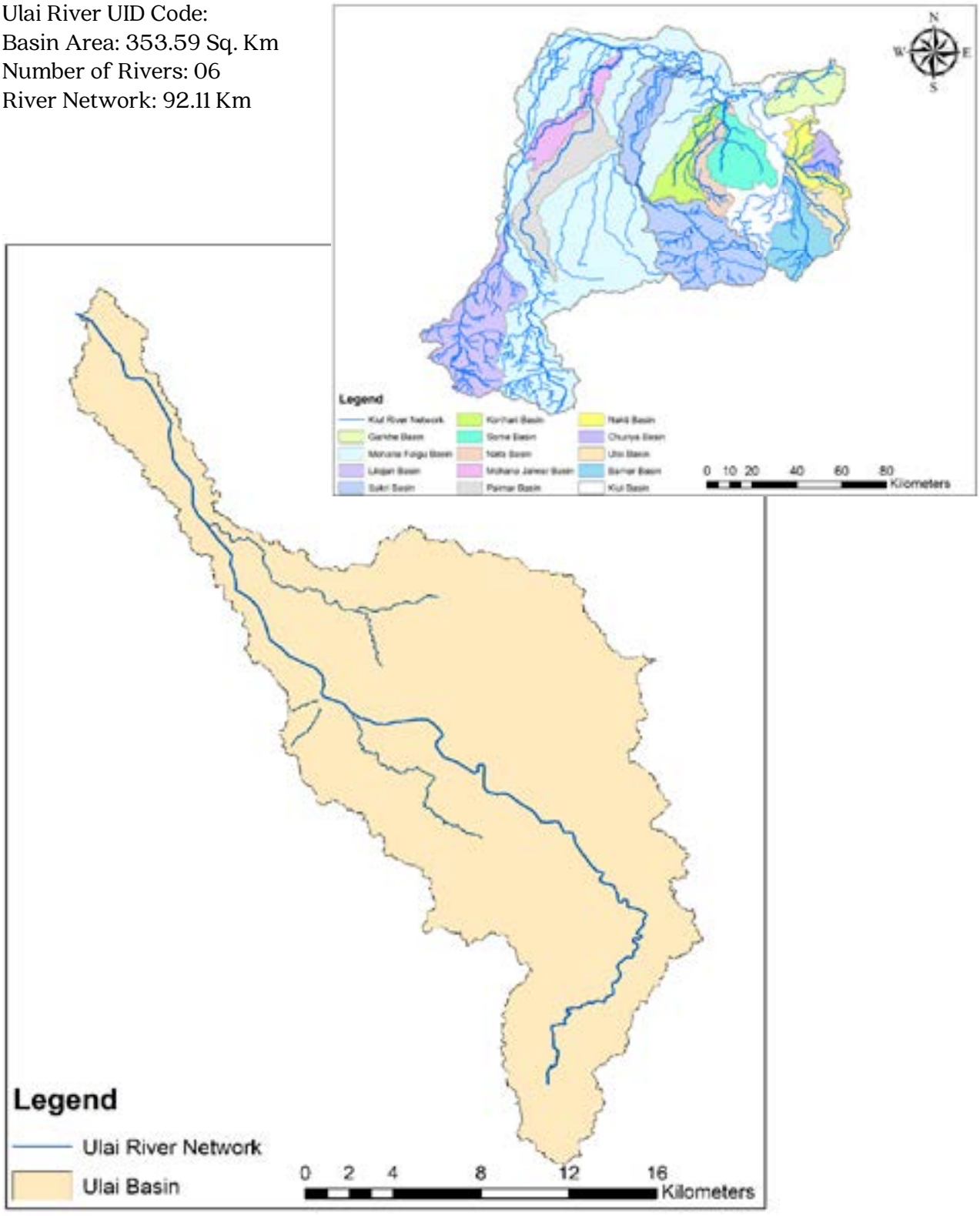


Figure: Ulai River Network

ULAI RIVER MAINSTEM FLOW DIAGRAM

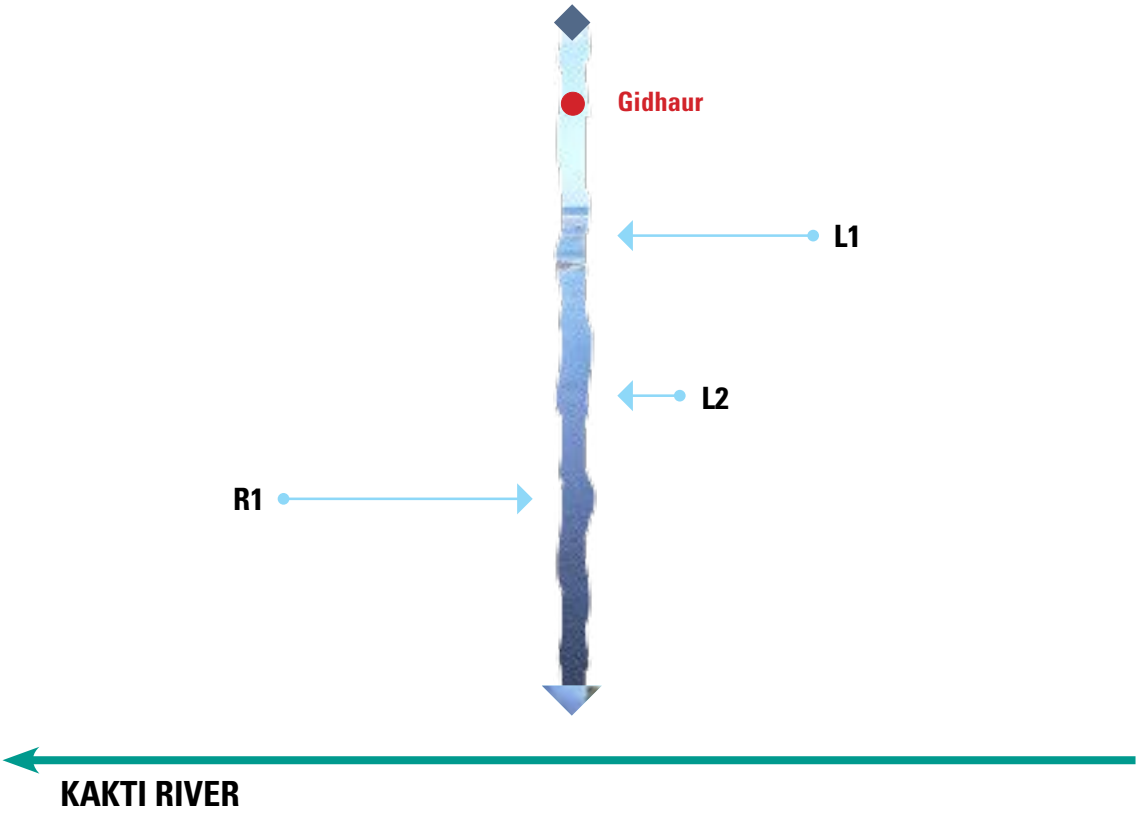


Figure: Flow Diagram of Ulai River

ULAI RIVER (MAIN STEAM NETWORK)						
S.No.	River Name	Confluence Bank	River Length (Km)	Confluence Co-ordinate		Distance from origin (km)
				Lat	Long	
1	Stream 2	L1	12.5	24.77	86.36	33
2	Stream 1	L2	4.1	24.78	86.35	34.8
3	Nagi River	R1	14.3	24.85	86.30	45

BARMAR BASIN AND ITS RIVER NETWORK

Barmar River UID Code:
Basin Area: 698.89 Sq. Km
Number of Rivers: 11
River Network: 132.25 Km

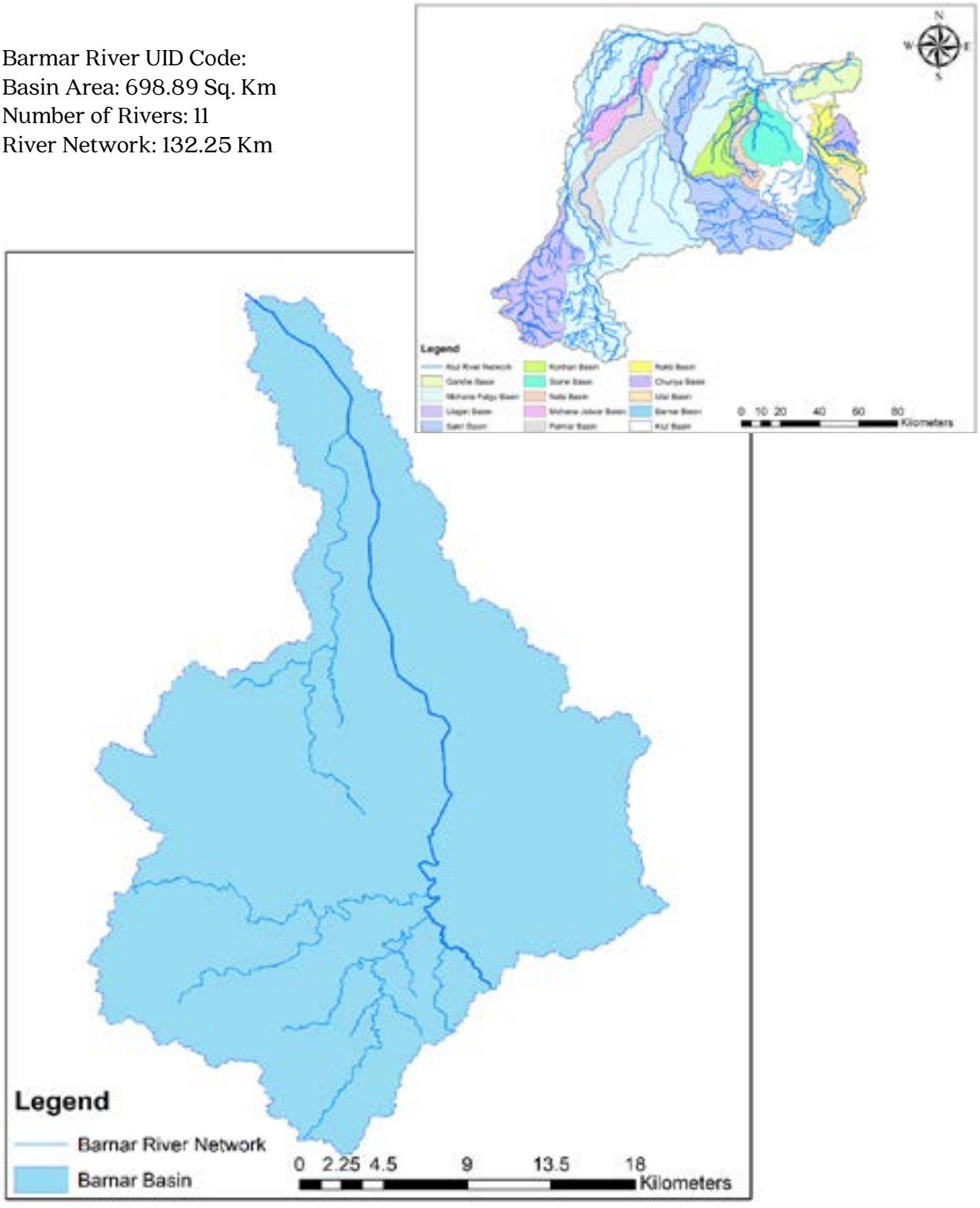


Figure: Barmar River Network

BARMAR RIVER MAINSTEM FLOW DIAGRAM

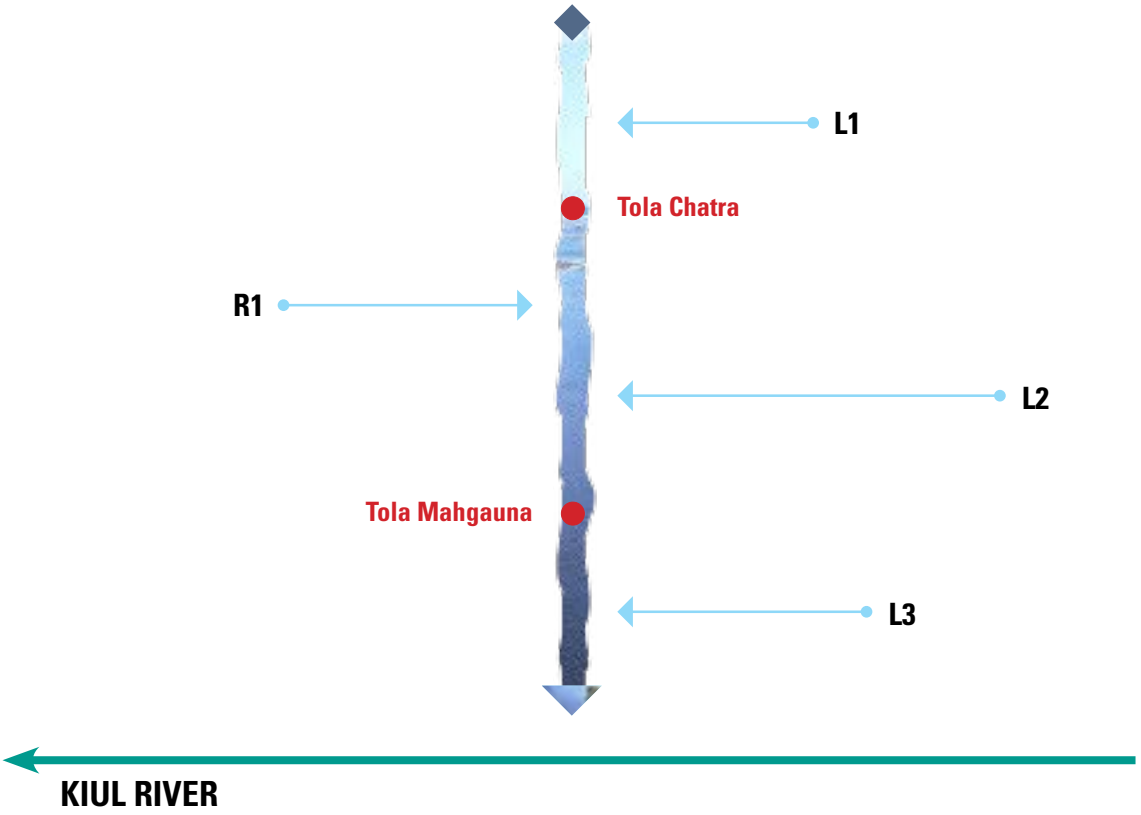
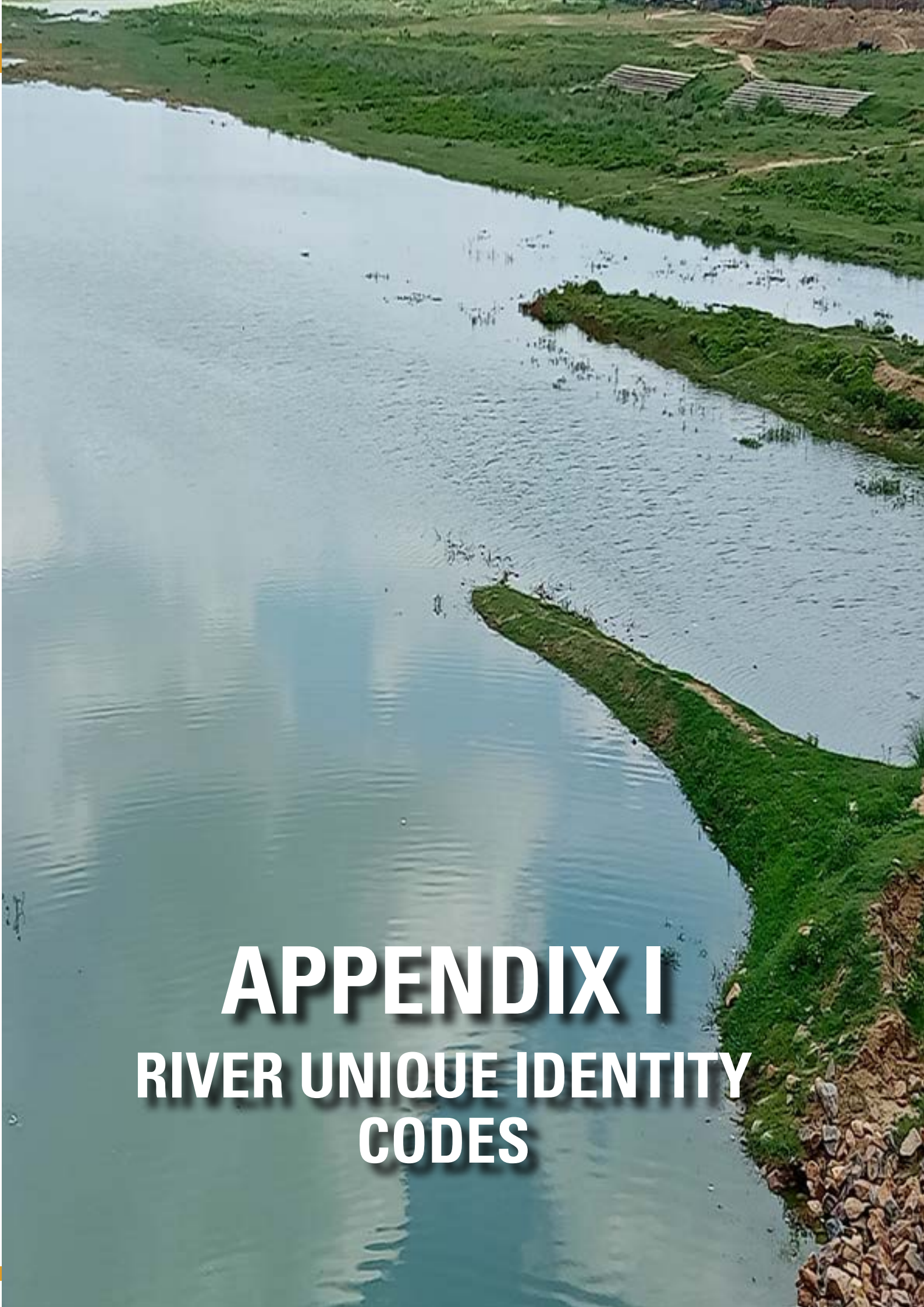


Figure: Flow Diagram of Barmar River

BARNAR RIVER (MAIN STEAM NETWORK)						
S.No.	River Name	Confluence Bank	River Length (Km)	Confluence Co-ordinate		Distance from origin (km)
				Lat	Long	
1	Jangpal Drain	L 1	6.56	24.56	86.33	4.3
2	Stream 1	R 1	6.46	24.59	86.32	8.7
3	Chilka Drain	L 2	25.9	24.59	86.32	9.5
4	Sukhnar River	L 3	23.5	24.82	86.28	39.9



APPENDIX I

RIVER UNIQUE IDENTITY CODES

KIUL BASIN: DETAILS OF RIVERS

S. No	River	River Code	Origin		Destination		Confluec-ne with	Length of the river (km)	Sub-Sub Basin	Sub-Basin	Basin
			Lati-tude	Lon-gitude	Lati-tude	Lon-gi-tude					
1	Kiul River		24.57	86.12	25.30	86.35	Ganga	154		Kiul	Ganga
2	Stream 4		24.62	86.17	24.64	86.12	Kiul River	6.95		Kiul	Ganga
3	Stream 3		24.76	86.08	24.81	86.10	Kiul River	7.99		Kiul	Ganga
4	Bunbuni River		24.70	86.15	24.81	86.20	Kiul River	20.6		Kiul	Ganga
5	Stream 1		24.69	86.13	24.70	86.15	Bunbuni River	5.31		Kiul	Ganga
6	Bhorlwajor Drain		24.73	86.13	24.74	86.16	Bunbuni River	5.45		Kiul	Ganga
7	Stream 1		24.71	86.14	24.73	86.15	Bunbuni River	3.94		Kiul	Ganga
8	Arghuti River		24.76	86.10	24.80	86.19	Kiul River	15.6		Kiul	Ganga
9	Bandarbari River		24.74	86.20	24.87	86.23	Kiul River	23.9		Kiul	Ganga
10	Barnar River		24.54	86.35	24.88	86.24	Kiul River	50		Kiul	Ganga
11	Jangpal Drain		24.52	86.33	24.56	86.33	Barnar River	6.56		Kiul	Ganga
12	Stream 1		24.56	86.36	24.59	86.32	Barnar River	6.46		Kiul	Ganga
13	Chilka Drain		24.59	86.16	24.59	86.32	Barnar River	25.9		Kiul	Ganga
14	Suknar River		24.69	86.22	24.82	86.28	Barnar River	23.5		Kiul	Ganga
15	Stream 2		24.63	86.29	24.70	86.26	Suknar River	12.7		Kiul	Ganga
16	Stream 1		24.67	86.27	24.71	86.27	Suknar River	6.27		Kiul	Ganga
17	Ulai River		24.61	86.44	24.94	86.25	Kiul River	57.4		Kiul	Ganga
18	Stream 2		24.72	86.42	24.77	86.36	Ulai River	12.5		Kiul	Ganga
19	Stream 1		24.75	86.36	24.78	86.35	Ulai River	4.1		Kiul	Ganga
20	Stream 2		24.76	86.33	24.77	86.35	Stream 1	2.49		Kiul	Ganga

S. No	River	River Code	Origin		Destination		Confluec-ne with	Length of the river (km)	Sub-Sub Basin	Sub-Basin	Basin
			Lati-tude	Lon-gitude	Lati-tude	Lon-gi-tude					
21	Stream 1		24.77	86.34	24.78	86.35	Stream 1	1.38		Kiul	Ganga
22	Nagi River		24.82	86.40	24.85	86.30	Ulai River	14.3		Kiul	Ganga
23	Stream 2		24.79	86.38	24.81	86.37	Nagi River	3.84		Kiul	Ganga
24	Stream 1		24.84	86.41	24.82	86.35	Nagi River	9.57		Kiul	Ganga
25	Nakti River		24.81	86.48	24.98	86.23	Kiul River	51.2		Kiul	Ganga
26	Stream 4		24.87	86.44	24.87	86.41	Nakti River	4.63		Kiul	Ganga
27	Stream 3		24.89	86.41	24.88	86.39	Nakti River	3.47		Kiul	Ganga
28	Stream 2		24.84	86.40	24.88	86.37	Nakti River	7.94		Kiul	Ganga
29	Stream 1		24.87	86.32	24.90	86.32	Nakti River	4.58		Kiul	Ganga
30	Churiya River/Bajan River		24.88	86.46	24.92	86.31	Nakti River	29.2		Kiul	Ganga
31	Stream 7		24.89	86.48	24.93	86.45	Churiya River/Bajan River	6.14		Kiul	Ganga
32	Stream 6		24.89	86.44	24.92	86.43	Churiya River/Bajan River	6		Kiul	Ganga
33	Stream 5		24.92	86.42	24.93	86.42	Churiya River/Bajan River	1.64		Kiul	Ganga
34	Bhonr River		24.97	86.47	24.94	86.41	Churiya River/Bajan River	10.1		Kiul	Ganga
35	Stream 2		24.95	86.47	24.94	86.45	Bhonr River	3.68		Kiul	Ganga
36	Stream 1		24.98	86.46	24.95	86.41	Bhonr River	11.6		Kiul	Ganga
37	Stream 4		24.91	86.39	24.93	86.38	Churiya River/Bajan River	4.7		Kiul	Ganga
38	Stream 3		24.91	86.38	24.92	86.37	Churiya River/Bajan River	3.2		Kiul	Ganga

S. No	River	River Code	Origin		Destination		Confluec-ne with	Length of the river (km)	Sub-Sub Basin	Sub-Basin	Basin
			Lati-tude	Lon-gitude	Lati-tude	Lon-gi-tude					
39	Stream 2		24.91	86.37	24.92	86.37	Churiya River/Bajan River	2		Kiul	Ganga
40	Stream 1		25.04	86.43	24.92	86.35	Churiya River/Bajan River	25		Kiul	Ganga
41	Stream 1		24.99	86.42	24.96	86.37	Stream 1	8.74		Kiul	Ganga
42	Kharwar River		25.03	86.36	24.95	86.29	Nakti River	20.8		Kiul	Ganga
43	Stream 2		25.01	86.34	24.97	86.32	Kharwar River	6		Kiul	Ganga
44	Stream 1		25.01	86.35	24.98	86.33	Stream 2	6.43		Kiul	Ganga
45	Stream 1		24.96	86.34	24.96	86.30	Kharwar River	5.12		Kiul	Ganga
46	Anjan River		25.10	86.37	24.96	86.28	Nakti River	31.5		Kiul	Ganga
47	Stream 1		25.00	86.31	24.99	86.30	Anjan River	4.35		Kiul	Ganga
48	Stream 2		25.06	86.21	25.05	86.17	Kiul River	7.1		Kiul	Ganga
49	Stream 1		25.12	86.17	25.12	86.14	Kiul River	7.71		Kiul	Ganga
50	Mohana River /Falgu River		23.97	85.20	25.22	86.15	Kiul River	388		Kiul	Ganga
51	Danra River		24.37	85.01	24.42	85.12	Mohana River /Fal-gu River	15.6		Kiul	Ganga
52	Stream 1		24.39	85.08	24.41	85.08	Danra River	3.3		Kiul	Ganga
53	Goari Drain		24.39	85.16	24.46	85.14	Mohana River /Fal-gu River	11.2		Kiul	Ganga
54	Pichhri Drain		24.45	85.22	24.44	85.16	Goari Drain	6.96		Kiul	Ganga
55	Bhurha Drain		24.47	85.15	24.49	85.14	Mohana River /Fal-gu River	2.66		Kiul	Ganga
56	Khalrig arha Drain		24.47	85.12	24.50	85.12	Mohana River /Fal-gu River	4.34		Kiul	Ganga

S. No	River	River Code	Origin		Destination		Confluec-ne with	Length of the river (km)	Sub-Sub Basin	Sub-Basin	Basin
			Lati-tude	Lon-gitude	Lati-tude	Lon-gi-tude					
57	Stream 23		24.49	85.16	24.53	85.13	Mohana River /Fal-gu River	8.56		Kiul	Ganga
58	Natane Drain		24.50	85.17	24.59	85.09	Mohana River /Fal-gu River	19.7		Kiul	Ganga
59	Stream 1		24.52	85.17	24.54	85.16	Natane Drain	3.76		Kiul	Ganga
60	Stream 1		24.52	85.19	24.54	85.17	Stream 1	4.4		Kiul	Ganga
61	Stream 22		24.76	85.03	24.71	85.02	Mohana River /Fal-gu River	6.96		Kiul	Ganga
62		Lilajan River	24.08	84.91	24.72	85.01	Mohana River /Fal-gu River	114		Kiul	Ganga
63	Langura Drain		24.39	84.89	24.45	84.87	Lilajan River	8.76		Kiul	Ganga
64	Dhardhari River		24.37	84.94	24.50	84.91	Lilajan River	21		Kiul	Ganga
65	Hisir River		24.38	84.97	24.41	84.95	Dhardhari River	5.11		Kiul	Ganga
66	Stream 1		24.44	84.94	24.50	84.95	Dhardhari River	6.35		Kiul	Ganga
67	Arbarwa Drain		24.40	84.93	24.49	84.92	Dhardhari River	14.3		Kiul	Ganga
68	Stream 1		24.41	84.90	24.44	84.91	Arbarwa Drain	3.74		Kiul	Ganga
69	Gulshakri River		24.44	84.96	24.57	84.97	Lilajan River	19.3		Kiul	Ganga
70	Stream 2		24.45	84.94	24.50	84.97	Gulshakri River	7.17		Kiul	Ganga
71	Gokhula River		24.47	85.08	24.54	84.98	Gulshakri River	16		Kiul	Ganga
72	Stream 1		24.46	85.06	24.48	85.05	Gokhula River	3.21		Kiul	Ganga
73	Pathalgaiha Drain		24.43	85.04	24.49	85.04	Gokhula River	8.27		Kiul	Ganga
74	Stream 1		24.44	85.04	24.45	85.04	Pathalgaiha Drain	1.23		Kiul	Ganga

S. No	River	River Code	Origin		Destination		Confluec-ne with	Length of the river (km)	Sub-Sub Basin	Sub-Basin	Basin
			Lati-tude	Lon-gitude	Lati-tude	Lon-gi-tude					
75	Chaudi Drain		24.44	85.02	24.50	85.02	Gokhula River	8.66		Kiul	Ganga
76	Stream 1		24.55	84.96	24.57	84.97	Gulshakri River	3.35		Kiul	Ganga
77	Stream 21		24.75	84.98	24.78	85.01	Mohana River /Fal-gu River	6.26		Kiul	Ganga
78	Stream 20		24.88	85.01	24.86	85.02	Mohana River /Fal-gu River	3.59		Kiul	Ganga
79	Stream 19		24.97	85.02	24.95	85.05	Mohana River /Fal-gu River	6.64		Kiul	Ganga
80	Stream 18		24.98	85.09	24.97	85.11	Mohana River /Fal-gu River	3.1		Kiul	Ganga
81	Stream 17		24.98	85.09	24.99	85.14	Mohana River /Fal-gu River	6.86		Kiul	Ganga
82	Nonai Riv-er-Mohana Drain		25.01	85.10	25.44	85.46	Mohana River /Fal-gu River	83		Kiul	Ganga
83	Mohana River-Jalwar River		25.03	85.12	25.42	85.53	Nonai Riv-er-Mohana Drain	106		Kiul	Ganga
84	Paimar River		24.53	85.20	25.24	85.40	Mohana River-Jal-war River	140		Kiul	Ganga
85	Stream 3		24.55	85.17	24.58	85.17	Paimar River	4.17		Kiul	Ganga
86	Bansi River		24.66	85.17	24.77	85.11	Paimar River	20		Kiul	Ganga
87	Stream 2		24.78	85.08	24.80	85.10	Paimar River	6.17		Kiul	Ganga
88	Aliani River		24.93	85.26	24.96	85.22	Paimar River	21		Kiul	Ganga
89	Stream 1		25.08	85.41	25.13	85.41	Paimar River	11.5		Kiul	Ganga
90	Garbhi River		25.06	85.11	25.04	85.10	Mohana River /Fal-gu River	3.43		Kiul	Ganga

S. No	River	River Code	Origin		Destination		Confluec-ne with	Length of the river (km)	Sub-Sub Basin	Sub-Basin	Basin
			Lati-tude	Lon-gitude	Lati-tude	Lon-gi-tude					
91	Bhuthi River		25.23	85.16	25.08	85.13	Mohana River /Fal-gu River	20.4		Kiul	Ganga
92	Dhowa River/ Phalgu River		25.23	85.15	25.47	85.36	Mohana River /Fal-gu River	52.7		Kiul	Ganga
93	Bhuthin River		25.32	85.17	25.27	85.17	Mohana River /Fal-gu River	7.56		Kiul	Ganga
94	Sudahi River		25.31	85.22	25.35	85.30	Mohana River /Fal-gu River	13.2		Kiul	Ganga
95	Stream 16		25.34	85.23	25.34	85.26	Mohana River /Fal-gu River	4.52		Kiul	Ganga
96	Sonr River		25.36	85.25	25.40	85.30	Mohana River /Fal-gu River	14.5		Kiul	Ganga
97	Stream 15		25.39	85.25	25.39	85.28	Mohana River /Fal-gu River	3.33		Kiul	Ganga
98	Marhhi Drain		25.32	85.18	25.40	85.25	Mohana River /Fal-gu River	20.7		Kiul	Ganga
99	Stream 14		25.40	85.23	25.41	85.25	Mohana River /Fal-gu River	3.99		Kiul	Ganga
100	Bhutahi River		25.39	85.22	25.42	85.26	Mohana River /Fal-gu River	8.85		Kiul	Ganga
101	Stream 13		25.43	85.30	25.46	85.33	Mohana River /Fal-gu River	6.65		Kiul	Ganga
102	Stream 12		25.46	85.34	25.47	85.35	Mohana River /Fal-gu River	2.4		Kiul	Ganga
103	Stream 11		25.45	85.36	25.46	85.37	Mohana River /Fal-gu River	3.88		Kiul	Ganga
104	Stream 10		25.47	85.39	25.46	85.41	Mohana River /Fal-gu River	3.71		Kiul	Ganga

S. No	River	River Code	Origin		Destination		Confluec-ne with	Length of the river (km)	Sub-Sub Basin	Sub-Basin	Basin
			Lati-tude	Lon-gitude	Lati-tude	Lon-gi-tude					
105	Chiraia River		25.26	85.36	25.44	85.47	Mohana River /Fal-gu River	30.1		Kiul	Ganga
106	Stream 9		25.40	85.46	25.43	85.51	Mohana River /Fal-gu River	8		Kiul	Ganga
107	Goga River		25.43	85.53	25.41	85.71	Mohana River /Fal-gu River	23.5		Kiul	Ganga
108	Panchane River		24.63	85.56	25.38	85.65	Mohana River /Fal-gu River	120		Kiul	Ganga
109	Sakri/ Dhanarjay River		24.51	85.70	24.95	85.49	Panchane River	80.4		Kiul	Ganga
110	Dhadhar River		24.50	85.43	25.00	85.49	Panchane River	97.7		Kiul	Ganga
111	Stream 1		24.56	85.35	24.92	85.41	Dhadhar River	55.5		Kiul	Ganga
112	Bari River		25.33	85.79	25.38	85.68	Mohana River /Fal-gu River	4.62		Kiul	Ganga
113	Stream 8		25.36	85.70	25.37	85.78	Mohana River /Fal-gu River	11.8		Kiul	Ganga
114	Stream 7		25.42	85.73	25.39	85.84	Mohana River /Fal-gu River	16.3		Kiul	Ganga
115	Stream 6		25.38	85.84	25.39	85.87	Mohana River /Fal-gu River	4.1		Kiul	Ganga
116	Stream 5		25.34	85.78	25.35	85.88	Mohana River /Fal-gu River	15.1		Kiul	Ganga
117	Sakri River		24.55	86.12	25.31	85.88	Mohana River /Fal-gu River	177		Kiul	Ganga
118	Stream 3		24.77	85.68	24.78	85.66	Sakri River	4.35		Kiul	Ganga
119	Stream 2		25.06	85.56	25.08	85.58	Sakri River	3.77		Kiul	Ganga
120	Stream 1		25.11	85.62	25.16	85.62	Sakri River	6.36		Kiul	Ganga

S. No	River	River Code	Origin		Destination		Confluec-ne with	Length of the river (km)	Sub-Sub Basin	Sub-Basin	Basin
			Lati-tude	Lon-gitude	Lati-tude	Lon-gi-tude					
121	Kumhari River		25.04	85.58	25.33	85.73	Sakri River	45.3		Kiul	Ganga
122	Naunia Drain		25.15	85.66	25.31	85.76	Sakri River	28.7		Kiul	Ganga
123	Dhanahiya River		25.30	85.76	25.31	85.88	Sakri River	14.7		Kiul	Ganga
124	Stream 4		25.28	85.82	25.29	85.89	Mohana River /Fal-gu River	9.36		Kiul	Ganga
125	Stream 1		25.22	85.84	25.29	85.89	Stream 4	11.1		Kiul	Ganga
126	Bandar Drain		25.24	86.03	25.29	85.94	Mohana River /Fal-gu River	27.7		Kiul	Ganga
127	Stream 1		25.35	85.97	25.30	85.96	Bandar Drain	7.23		Kiul	Ganga
128	Stream 2		25.22	85.85	25.24	85.93	Mohana River /Fal-gu River	9.96		Kiul	Ganga
129	Tati/Kaljug River		25.12	85.71	25.21	85.94	Mohana River /Fal-gu River	38.7		Kiul	Ganga
130	Stream 1		25.18	85.86	25.21	85.92	Tati/Kaljug River	9.38		Kiul	Ganga
131	Korihari River		24.86	85.75	25.19	85.97	Mohana River /Fal-gu River	65.5		Kiul	Ganga
132	Stream 2		24.99	85.77	24.95	85.76	Korihari River	5.14		Kiul	Ganga
133	Baghail River		24.83	85.85	25.01	85.84	Korihari River	28		Kiul	Ganga
134	Stream 1		24.88	85.83	24.94	85.81	Baghail River	10.2		Kiul	Ganga
135	Korihari River		25.03	85.85	25.07	85.93	Korihari River	16.2		Kiul	Ganga
136	Stream 1		25.03	85.86	25.12	85.91	Korihari River	14.7		Kiul	Ganga
137	Stream 1		25.12	85.89	25.15	85.92	Korihari River	6.19		Kiul	Ganga
138	Some River		24.91	85.96	25.19	85.99	Mohana River /Fal-gu River	56.5		Kiul	Ganga

S. No	River	River Code	Origin		Destination		Confluec-ne with	Length of the river (km)	Sub-Sub Basin	Sub-Basin	Basin
			Lati-tude	Lon-gitude	Lati-tude	Lon-gi-tude					
139	Bhurha Drain		24.90	86.13	25.04	85.99	Some River	36.4		Kiul	Ganga
140	Stream 1		25.00	86.06	25.02	86.05	Bhurha Drain	4.34		Kiul	Ganga
141	Some River 2		25.06	86.07	25.08	86.00	Some River	11.6		Kiul	Ganga
142	Nata River		24.82	85.98	25.12	85.98	Some River	61.7		Kiul	Ganga
143	Stream 5		24.80	85.98	24.82	85.94	Nata River	5.88		Kiul	Ganga
144	Stream 1		24.79	85.96	24.81	85.95	Stream 5	3.46		Kiul	Ganga
145	Stream 4		24.77	85.95	24.83	85.91	Nata River	8.19		Kiul	Ganga
146	Stream 3		24.80	85.90	24.86	85.87	Nata River	11.3		Kiul	Ganga
147	Stream 2		24.88	85.86	24.93	85.87	Nata River	6.1		Kiul	Ganga
148	Stream 1		25.04	85.93	25.04	85.99	Nata River	6.92		Kiul	Ganga
149	Stream 1		25.18	86.02	25.19	85.99	Some River	4.4		Kiul	Ganga
150	Stream 1		25.20	86.02	25.22	86.05	Mohana River /Fal-gu River	4.85		Kiul	Ganga
151	Morwe River		25.13	86.22	25.20	86.17				Kiul	Ganga
152	Garkhe River		25.23	86.22	25.33	86.46	Kiul River	19.4		Kiul	Ganga
153	Stream 1		25.19	86.21	25.22	86.24	Kiul River	37.5		Kiul	Ganga
154	Khalkhala River		25.23	86.27	25.27	86.30	Garkhe River	5.78		Kiul	Ganga
155	Stream 2		25.20	86.28	25.23	86.28	Garkhe River	7.25		Kiul	Ganga
156	Stream 3		25.24	86.30	25.22	86.31	Garkhe River	5.2		Kiul	Ganga
157	Stream 4		25.21	86.42	25.26	86.37	Garkhe River	2.28		Kiul	Ganga
158	Stream 5		25.28	86.50	25.29	86.45	Garkhe River	12		Kiul	Ganga
159	Stream 6		25.32	86.47	25.32	86.46	Garkhe River	8.21		Kiul	Ganga

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