



National River Conservation Directorate
Ministry of Jal Shakti,
Department of Water Resources,
River Development and Ganga Rejuvenation
Government of India

CAUVERY RIVER BASIN ATLAS



August 2025



भारतीय विज्ञान संस्थान



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National River Conservation Directorate (NRCDD)

The National River Conservation Directorate, functioning under the Department of Water Resources, River Development and Ganga Rejuvenation, and the Ministry of Jal Shakti, provides financial assistance to the State Government for conservation of rivers under the Centrally Sponsored Schemes of 'National River Conservation Plan (NRCP)'. National River Conservation Plan to the State Governments/ local bodies to set up infrastructure for pollution abatement of rivers in identified polluted river stretches based on proposals received from the State Governments/ local bodies.

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The Centre for Cauvery River Basin Management and Studies (cCauvery) is a Brain Trust dedicated to River Science and River Basin Management. Established in 2024 by IISc Bengaluru and NIT Tiruchirappalli, under the supervision of cGanga at IIT Kanpur, the centre serves as a knowledge wing of the National River Conservation Directorate (NRCDD). cCauvery is committed to restoring and conserving the Cauvery River and its resources through the collation of information and knowledge, research and development, planning, monitoring, education, advocacy, and stakeholder engagement.

www.ccauvery.org

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cGanga is a think tank established under the aegis of NMCG, with one of its stated objectives being to make India a global 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 a think-tank in the implementation and dynamic evolution of the Ganga River Basin Management Plan (GRBMP) prepared by the Consortium of 7 IITs. Additionally, it is responsible for introducing new technologies, innovations, and solutions to India.

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Acknowledgment

This report is a comprehensive outcome of the project jointly executed by IISc Bengaluru (Lead Institute) and NIT Tiruchirappalli (Fellow Institute) under the supervision of cGanga at IIT Kanpur. It was submitted to the National River Conservation Directorate (NRCDD) in 2024. We gratefully acknowledge the individuals who provided information and photographs for this report.

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PREFACE

In an era of unprecedented environmental change, understanding our rivers and their ecosystems has never been more critical. This report aims to provide a comprehensive overview of our rivers, highlighting their importance, current health, and the challenges they face. As we explore the various facets of river systems, we aim to equip readers with the knowledge necessary to appreciate and protect these vital waterways.

Throughout the following pages, you will find an in-depth analysis of the principles and practices that support healthy river ecosystems. Our team of experts has meticulously compiled data, case studies, and testimonials to illustrate the significant impact of rivers on both natural environments and human communities. By sharing these insights, we hope to inspire and empower our readers to engage in river conservation efforts.

This report is not merely a collection of statistics and theories; it is a call to action. We urge all stakeholders to recognise the value of our rivers and to take proactive steps to ensure their preservation. Whether you are an environmental professional, a policymaker, or simply someone who cares about our planet, this guide is designed to support you in your efforts to protect our rivers.

We extend our heartfelt gratitude to the numerous contributors who have generously shared their stories and expertise. Their invaluable input has enriched this report, making it a beacon of knowledge and a practical resource for all who read it. We hope that this report will serve as a catalyst for positive environmental action, fostering a culture of stewardship that benefits both current and future generations.

As you delve into this overview of our rivers, we invite you to embrace the opportunities and challenges that lie ahead. Together, we can ensure that our rivers continue to thrive and sustain life for generations to come.

**Centres for CRB
Management and Studies (cCauvery)
IISc Bengaluru (Lead Institute), NIT Tiruchirappalli (Fellow Institute)**

Abbreviations and Acronyms

°	-	Degree
'	-	Minute
%	-	Percentage
cCauvery	-	Centre for Cauvery River Basin Management and Studies
cGanga	-	Centre for Ganga River Basin Management and Studies
ht	-	Height
km	-	kilometer
m	-	meter
mm	-	millimeter
CRB	-	Cauvery River Basin
CWC	-	Central Water Commission
GoI	-	Government of India
LGD	-	Local Government Directory
Max	-	Maximum
MCM	-	Million Cubic Meter
NRCD	-	National River Conservation Directorate
SoI	-	Survey of India
Sq.km.	-	Square kilometer
TN	-	Tamil Nadu
ULB	-	Urban Local Body
WRIS	-	Water Resources Information System

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1. INTRODUCTION

The Cauvery River originates at 1,341 m in the Talakaveri area of the Brahmagiri range near Cherangala village in the Kodagu district of Karnataka, spans across the states of Tamil Nadu, Kerala, and the Union Territory of Puducherry, and outflows into the Bay of Bengal. Geographically, it lies between 10°9' and 13°30' North Latitudes and 75°27' and 79°54' East Longitudes (Vinod Gaikwad et al., 2024). The CRB covers an area of 85,220.39 Square Kilometres, which approximately accounts for 2.7% of the total geographical area of the country. The location of the Cauvery River Basin (CRB) is shown in Fig. 1. It is one of the largest rivers in South India and is also known as the “Ganga of the South.” The total length of the river is 806.7 km. The Cauvery River has 21 principal tributaries (India WRIS).

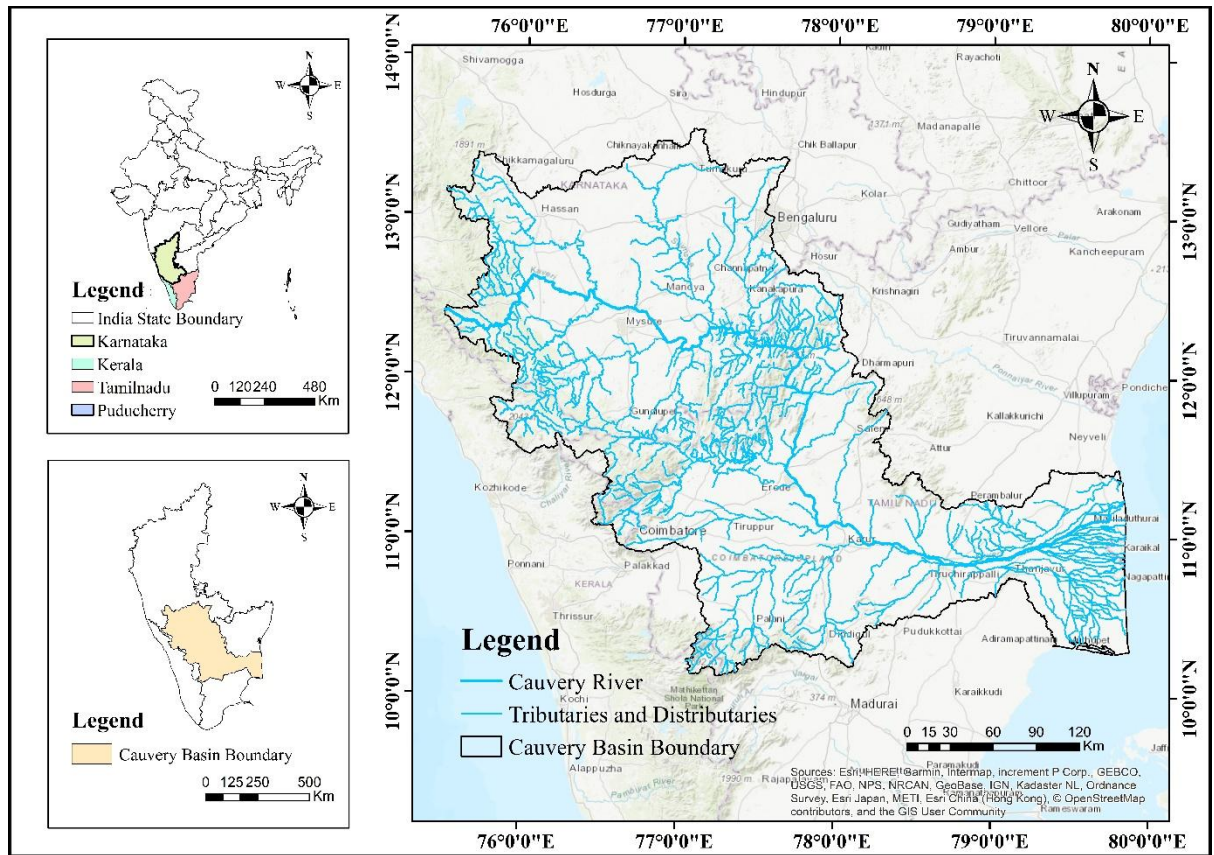


Fig. 1. Location of CRB

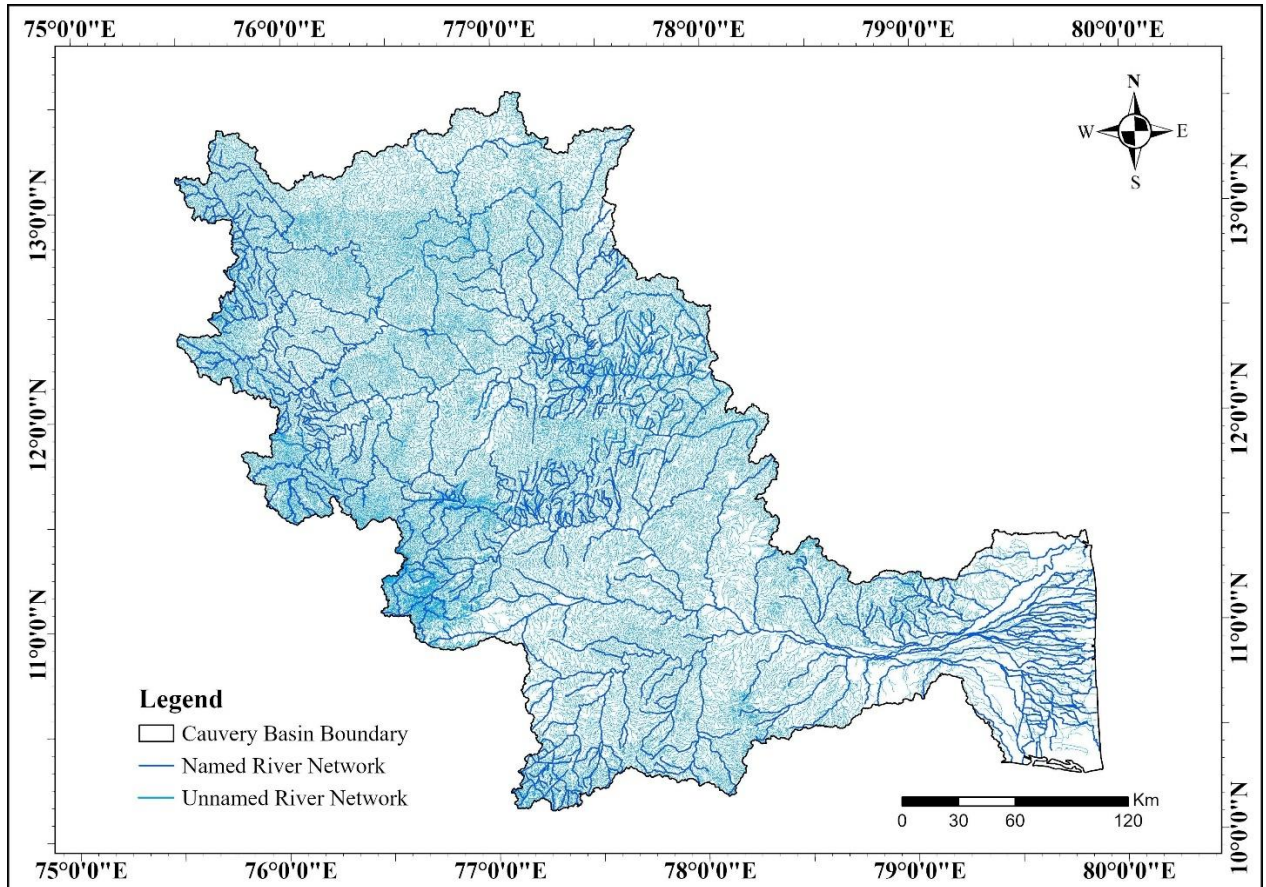


Fig. 2. CRB Stream Network

2. BASIN INFORMATION

The Cauvery River basin extends from 10°9' to 13°30' N latitude and 75°27' to 79°54' E longitude, covering a vast catchment area of 85,220.39 Sq.km. The Cauvery River itself is approximately 806.71 km long. The Cauvery basin encompasses parts of four Indian states/union territories: Tamil Nadu, Karnataka, Kerala, and Puducherry. Its water resources are significant, with an average water resource potential of 21,358 MCM (Million Cubic Meters) and a Utilisable Surface Water Resource of 19,000 MCM. The climate is characterised by a Mean Annual Rainfall of 1075.23 mm and a temperature range from a mean minimum of 17.15°C to a mean maximum of 34.31°C. Key infrastructure includes 15 Hydro Electric Projects, with the Pillur Dam being the highest (88 m) and the Lower Bhavani Dam being the longest (8,797 m). Table 1 shows the salient features of CRB.

Table 1. CRB: Salient Features

S.NO.	PARTICULARS	DETAILS
1.	Basin Extent	
	Latitude	10° 9' to 13° 30'-N
	Longitude	75° 27' to 79° 54'-E
2.	Length of Cauvery River (km)	806.71
3.	Catchment Area (Sq.km.)	85,220.39
4.	States in the Basin	Tamil Nadu, Karnataka, Kerala and Puducherry
5.	Average Water Resource Potential (MCM)	21358
6.	Utilisable Surface Water Resource (MCM)	19000
7.	Mean Annual Rainfall (mm)	1075.23
8.	Mean maximum Temperature (°C)	34.31
9.	Mean Minimum Temperature (°C)	17.15
10.	Major Sub-basins in the Basin	Upper Cauvery, Middle Cauvery, Lower Cauvery
11.	Number of Watersheds	132
12.	Number of Groundwater Observation Wells	873
13.	Number of Hydro Observation Sites	36
14.	Number of Flood Forecasting Stations	0
15.	Number of Power Houses	24
16.	Number of Hydro Electric Projects	15
17.	Highest Dam (m)	Pillur Dam – 88
18.	Longest Dam (m)	Lower Bhavani Dam – 8797
19.	Highest Barrage (m)	Kolar Barrage – 18
20.	Longest Barrage (km)	Nerunjipettai Barrage – 1478
21.	Number of Water Tourism Sites	60

(Source: India WRIS, Cauvery River at a glance report)

3. INDIA: ADMINISTRATIVE DIVISIONS (GEOGRAPHICAL)

In India, there are 28 individual states and 8 Union Territories, each with its own government and administrative structure. The Cauvery River Basin is situated in the Southern part of India. It spans the states of Karnataka, Tamil Nadu, and Kerala, as well as the Union territory of Puducherry. The geographical administrative divisions of India are shown in Fig. 3.

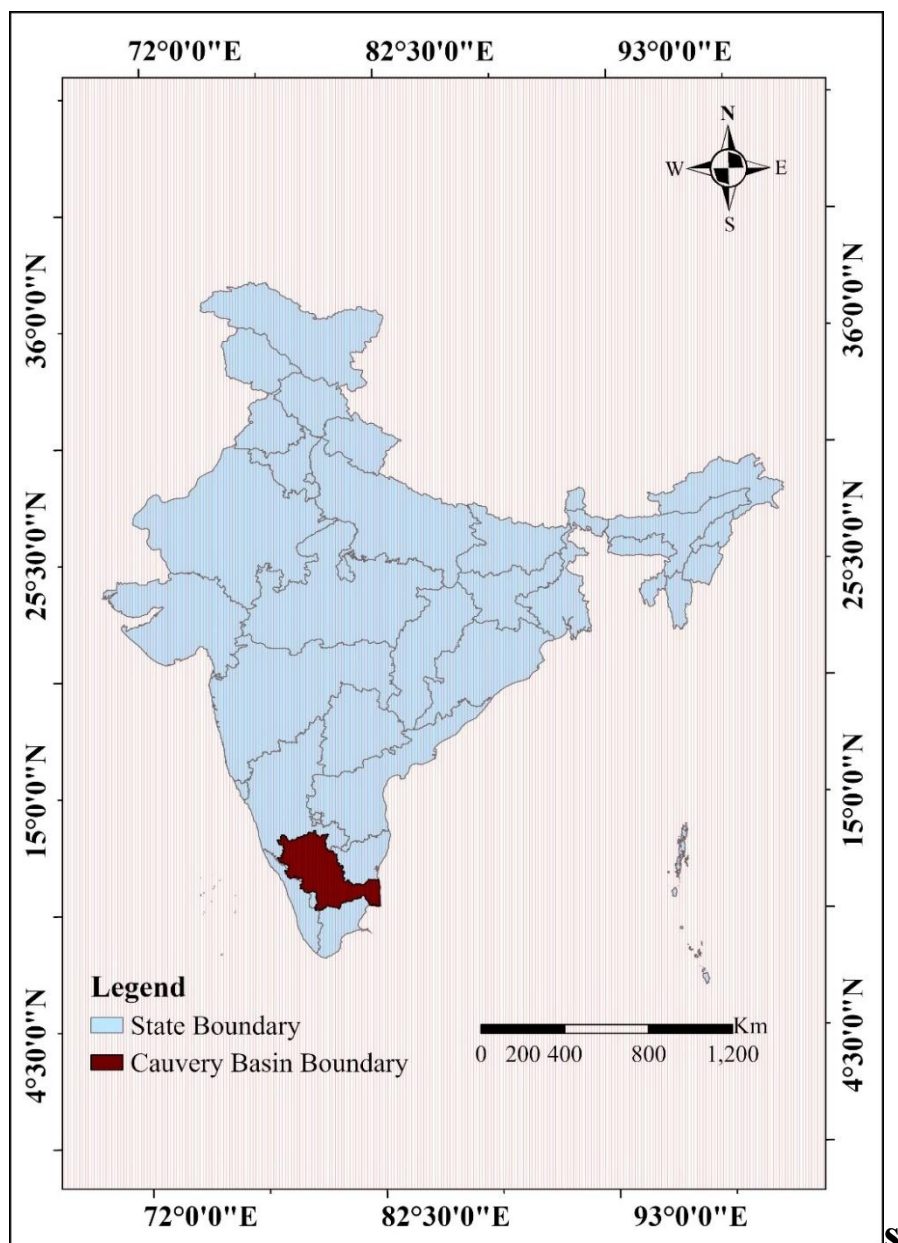


Fig. 3. India Administrative Divisions (Geographical)

(Source: SoI)

4. CRB: ADMINISTRATIVE DIVISIONS (GEOGRAPHICAL)

The Cauvery River Basin spans across 34 districts, four states, and a Union Territory. It covers 11 districts in Karnataka, 20 in Tamil Nadu, 2 in Kerala, and 1 in Puducherry. The districts of the Cauvery River Basin are shown in Fig. 4.

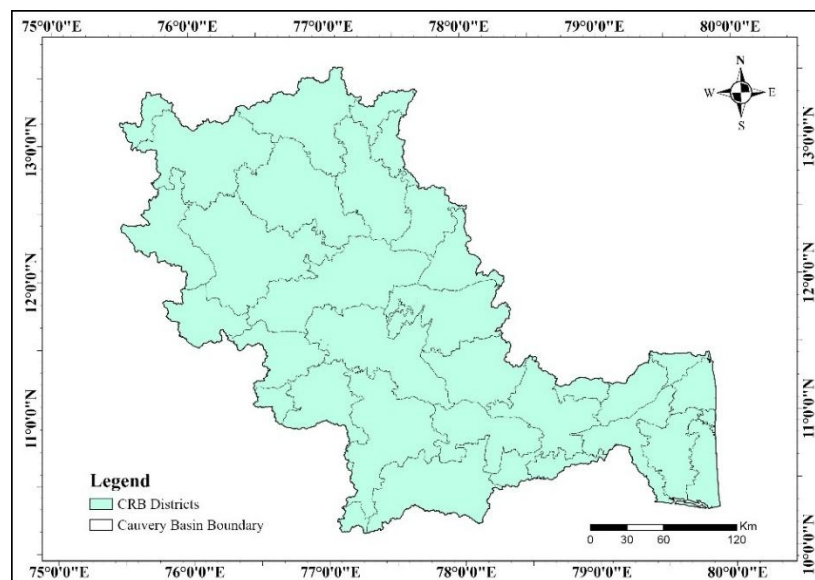


Fig. 4. CRB - Districts outline map

The Cauvery River Basin comprises 198 sub-districts spread across four regions. It includes 49 in Karnataka, 134 in Tamil Nadu, 13 in Kerala, and 2 in Puducherry. The sub-districts of the Cauvery River Basin are shown in Fig. 5.

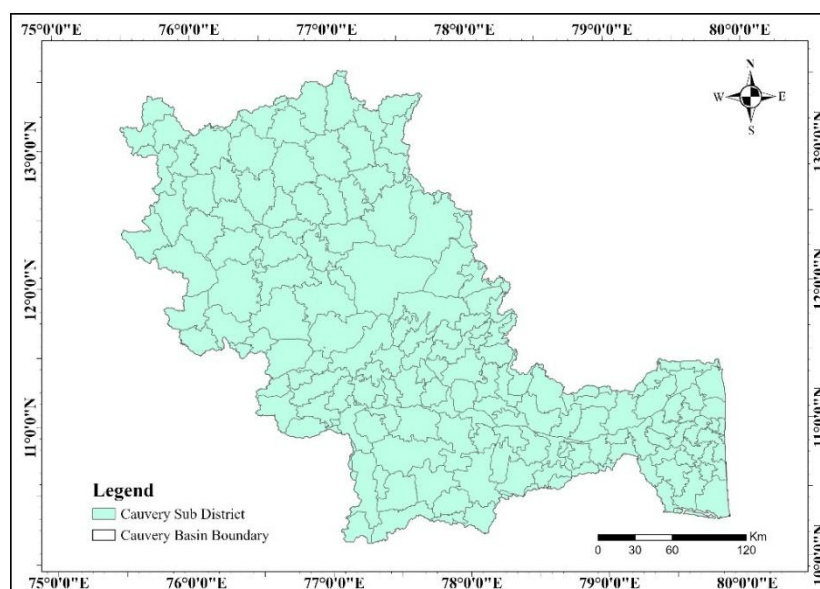


Fig. 5. CRB - Sub Districts outline map

The Cauvery River Basin encompasses 256 development blocks across the four states. It consists of 50 blocks in Karnataka, 190 blocks in Tamil Nadu, 15 blocks in Kerala, and 1 block in Puducherry. The blocks of the Cauvery River Basin are shown in Fig. 6.

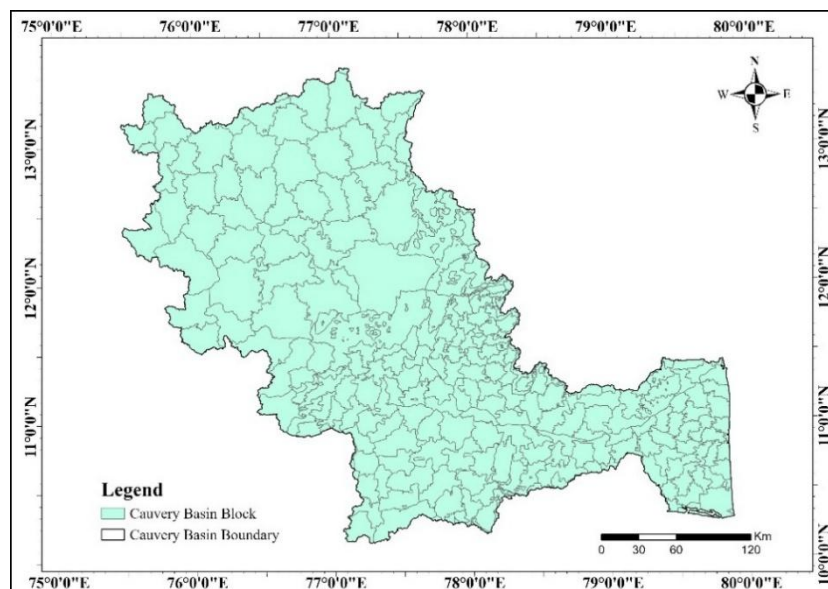


Fig. 6. CRB - Blocks outline map

The Cauvery River Basin includes a total of 14,424 villages across four regions. It comprises 9,071 villages in Karnataka, 5,247 in Tamil Nadu, 76 in Kerala, and 30 in Puducherry. The villages of the Cauvery River Basin are shown in Fig. 7.

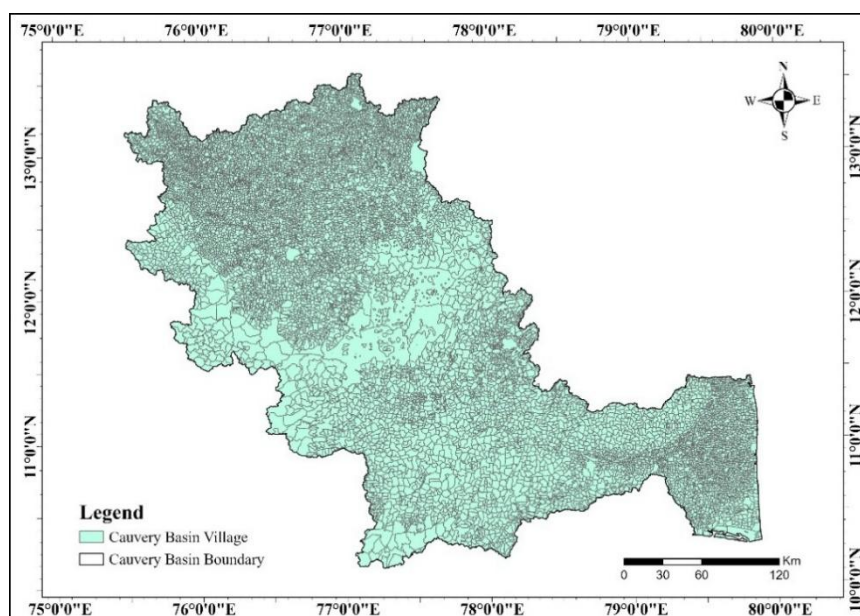


Fig. 7. CRB - Villages outline map

(Source: SoI)

5. CRB: CWC RIVER HYDROLOGICAL MEASUREMENT STATIONS

The Cauvery River Basin is monitored through CWC (Central Water Commission) stations across its regions. It includes 22 stations in Karnataka, 26 in Tamil Nadu, 2 in Kerala, and 1 in Puducherry. The CWC hydrological measurement stations of the Cauvery River Basin are shown in Fig. 8.

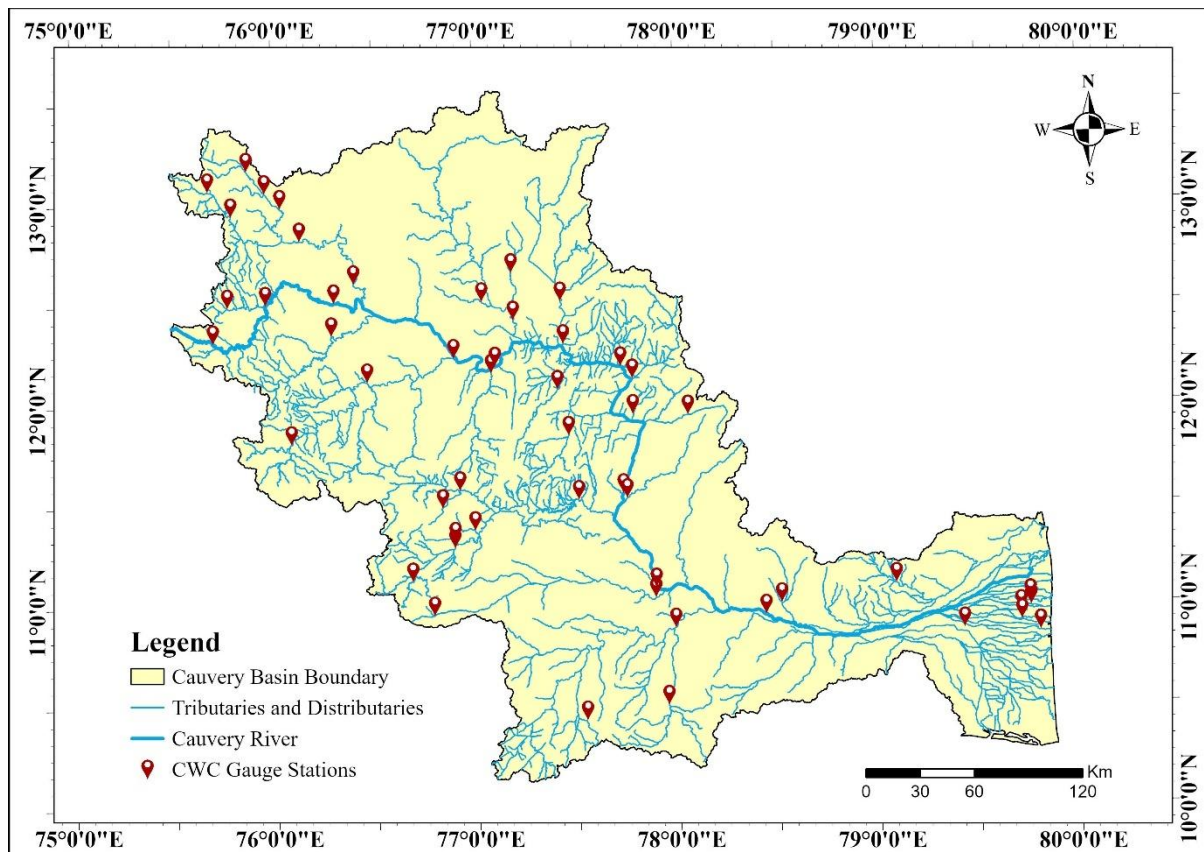


Fig. 8. CRB - Location of CWC Hydrological Measurement Stations

(Source: CWC)

6. CRB: DAMS

The Cauvery River Basin contains a total of 80 dams across Karnataka, Tamil Nadu, and Kerala. The primary purposes of these dams are Irrigation, Hydroelectric power generation, and water supply. The majority are either Earthen or a combination of Earthen and Gravity/Masonry types. The Lower Bhavani Dam (Erode, TN) is the longest, measuring 8,797 meters in length. The dams with the maximum height, an indicator of potential for significant power generation, are the Pillur Dam (88 meters) and the Upper Bhavani Dam (80 meters) in Tamil Nadu, both of which are used for Hydroelectric power. The oldest listed dam is the Thonnur Dam (Mandya, Karnataka), completed in 1000.

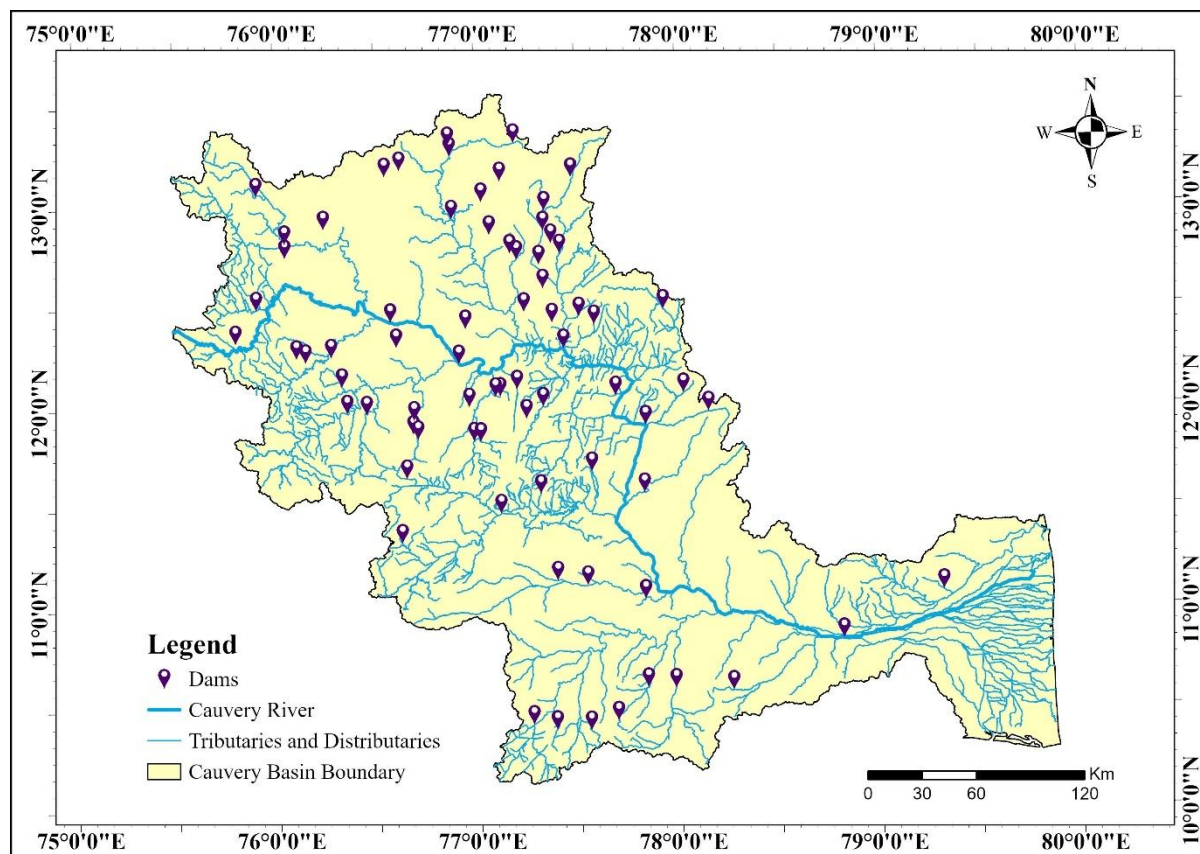


Fig. 9. CRB - Location of Dams

(Source: CWC)

Table 2. CRB: Dams on River Cauvery and its tributaries

S.No.	State	District	Name	River	Status	Type	Length (m)	Max ht abv foundation (m)	Completion Year	Purpose
1	Karnataka	Mysore	Alalur Dam	Lakshmanathirtha	Completed	Gravity & Masonry	939.6	17.41	1983	Irrigation
2	Tamil Nadu	Tiruppur	Amaravathi Dam	Amaravathi	Completed	Earthen / Gravity & Masonry	1095	50	1958	Hydroelectric, Irrigation
3	Karnataka	Ramanagara	Arkavathy Dam	Arkavathy	Completed	Earthen / Gravity & Masonry	720	29.685	2004	Irrigation
4	Tamil Nadu	The Nilgiris	Avalanche Dam	Avalanche & Emerald Streams	Completed	Gravity & Masonry	366	57	1961	Hydroelectric
5	Karnataka	Ramanagara	Byramangala Dam	Vrishabhavathy	Completed	Earthen	2286	22.85	1943	Irrigation
6	Karnataka	Hassan	Chakena Hally Dam	Hemavathy River	Completed	Earthen	886.75	17.3	1970	Irrigation
7	Karnataka	Chamarajanagar	Chickkahole Dam	Chickkahole	Completed	Earthen / Gravity & Masonry	756	27.53	1958	Irrigation
8	Karnataka	Ramanagara	Chikkagondanahally Dam	Arkavathy	Completed	Earthen	516	22.3	1979	Irrigation
9	Karnataka	Kodagu	Chiklihole Dam	Chiklihole	Completed	Earthen	464.8	25.3	1985	Irrigation
10	Karnataka	Tumkur	Deepambudikere Dam	Nagini	Completed	Earthen	600	15	1906	Irrigation
11	Karnataka	Ramanagara	Doddaladahalli Dam	Arkavathy	Completed	Earthen	330	14.95	1934	Irrigation
12	Tamil Nadu	The Nilgiris	Emerald Dam	Emerald	Completed	Gravity & Masonry	323	65	1961	Hydroelectric

13	Tamil Nadu	The Nilgiris	Glenmorgan	Glenmorgan St	Completed	Gravity & Masonry	80	16	1930	Hydroelectric
14	Karnataka	Chamarajanagar	Gopinatham Dam	Cauvery Basin	Completed	Earthen	402	18.16	1989	Irrigation
15	Karnataka	Chamarajanagar	Gowdahally Dam	K.K.Halla	Completed	Earthen	731.5	13.73	1983	Irrigation
16	Karnataka	Chamarajanagar	Gundal Dam	Gundal	Completed	Earthen	1219	31.55	1980	Irrigation
17	Karnataka	Kodagu	Harangi Dam	Harangi	Completed	Earthen / Gravity & Masonry	845.8	53	1982	Hydroelectric, Irrigation
18	Karnataka	Mysore	Hebbahalla Dam	Hebbahalla	Completed	Earthen	996.65	19.2	1965	Irrigation
19	Karnataka	Hassan	Hemavathy Dam	Hemavathy	Completed	Earthen / Gravity & Masonry	4692	58.5	1979	Irrigation
20	Karnataka	Bangalore	Hesaraghatta Dam	Arkavathy	Completed	Earthen	1560	14.78	1896	Drinking / Water Supply
21	Karnataka	Chamarajanagar	Hosahalli Dam	K.K.Halla	Completed	Earthen	868.68	16.76	1985	Irrigation
22	Karnataka	Tumkur	K.Honnachama halli Dam	Local Halla	Completed	Earthen	630	10	1952	Irrigation
23	Karnataka	Mysore	Kabini Dam	Kabini	Completed	Earthen / Gravity & Masonry	2732.4	59.43	1974	Hydroelectric, Irrigation
24	Karnataka	Mysore	Kachavanahalli Dam	Karigale & Hebbahalla	Completed	Earthen	722	16.3	1973	Irrigation
25	Karnataka	Tumkur	Kadaba Dam	Shimsha Valley	Completed	Earthen	1680	10.5	1906	Irrigation
26	Karnataka	Chamarajanagar	Kalikatte Dam	Kalikattehalla	Completed	Earthen	1122	14.84	1968	Irrigation
27	Karnataka	Chamarajanagar	Kamarahalli Dam	K.Hallihalla	Completed	Earthen	1020	12	1967	Irrigation
28	Karnataka	Ramanagara	Kanva Dam	Kanva	Completed	Earthen	1422	22.57	1946	Irrigation
29	Kerala	Wayanad	Karapuzha (Id) Dam	Karapuzha	Completed	Earthen	625	28	2004	Irrigation

30	Karnataka	Mysore	Karimuddenahalli Dam	Lakshman Theertha	Completed	Earthen	422.25	18.32	1972	Irrigation
31	Tamil Nadu	Dharmapuri	Kesarigulihalla Dam	K.gulihalla	Completed	Earthen	1672	16.74	1985	Irrigation
32	Karnataka	Chamarajanagar	Kowlihalla Dam	Cauvery Basin	Completed	Earthen	393	18.5		Irrigation
33	Karnataka	Mandya	Krishnarajasagar Dam	Cauvery	Completed	Gravity & Masonry	2621	42.62	1931	Irrigation
34	Tamil Nadu	The Nilgiris	Kundah Palam Dam	Kundah	Completed	Gravity & Masonry	152	32	1961	Hydroelectric
35	Karnataka	Tumkur	Kunigal Dodakere Dam	Nagini	Completed	Earthen	2000	11	1906	Irrigation
36	Tamil Nadu	Dindigul	Kuthiraiyar Dam	Kuthiraiyar	Completed	Earthen / Gravity & Masonry	899.9	27.38	1990	Irrigation
37	Kerala	Wayanad	Kuttiyadi Spillway Dam	Panamarampuzha	Completed	Gravity & Masonry	56.38	38.5	2004	Hydroelectric, Irrigation
38	Tamil Nadu	Erode	Lower Bhavani Dam	Bhavani	Completed	Earthen / Gravity & Masonry	8797	62	1955	Hydroelectric, Irrigation
39	Karnataka	Tumkur	Maidal Amanikere Dam	Agasarahalli nala	Completed	Earthen	810	13.8	1895	Irrigation
40	Karnataka	Tumkur	Mallaghatta Dam	Shimsha Valley	Completed	Earthen	750	15.6		Irrigation
41	Karnataka	Ramanagara	Manchanabele Dam	Arkavathy	Completed	Earthen / Gravity & Masonry	362.2	38.71	1993	Irrigation
42	Karnataka	Tumkur	Mangala I Dam	Nagini River	Completed	Earthen	610	13.1	1969	Irrigation
43	Karnataka	Chamarajanagar	Mangala II Dam	Cauvery		Earthen	661.4	25	1977	Irrigation
44	Karnataka	Ramanagara	Maralvadi Dam	Arkavathy	Completed	Earthen	480	16.5	1938	Irrigation
45	Tamil Nadu	The Nilgiris	Maravakandi Forbay Dam	Aravarihalla	Completed	Earthen / Gravity	415	22	1947	Hydroelectric

						& Masonry				
46	Karnataka	Tumkur	Marconahally Dam	Shimsha Valley	Completed	Earthen / Gravity & Masonry	1609	22.4	1940	Irrigation
47	Tamil Nadu	Dindigul	Marudhanadi Dam	Maurdhanadhi	Completed	Earthen	808	27.43	1979	Irrigation
48	Karnataka	Tumkur	Mayasandra Dam	Shimsha Valley	Completed	Earthen	1410	10.7	1906	Irrigation
49	Tamil Nadu	Salem	Mettur Dam	Cauvery	Completed	Gravity & Masonry	1615.44	70.41	1934	Hydroelectric, Irrigation
50	Karnataka	Tumkur	Muthurayanakere Dam	Local Nala	Completed	Earthen	1140	12.06	1970	Irrigation
51	Tamil Nadu	Dharmapuri	Nagavathi Dam	Nagavathy	Completed	Earthen	306	15.81	1986	Irrigation
52	Karnataka	Chamarajanagar	Nallur Amanikere Dam	Gundlu	Completed	Earthen	1802	15.04	1987	Irrigation
53	Tamil Nadu	Dindigul	Nanganjiyar Dam	Nanganjiyar	Completed	Gravity & Masonry	2680	21.5	2007	Irrigation
54	Karnataka	Ramanagara	Nelligudda Dam	Bidadi Halla	Completed	Earthen	740	17.07	1940	Irrigation
55	Karnataka	Chamarajanagar	New Amachawadi Dam	Yennehole Stream	Completed	Earthen	540	15.29	1984	Irrigation
56	Karnataka	Tumkur	Nidasale Dam	Nagini	Completed	Earthen	870	11	1906	Irrigation
57	Karnataka	Tumkur	Nittur Dam	Shimsha Valley	Completed	Earthen	1350	10.5	1906	Irrigation
58	Tamil Nadu	Karur	Noyyal Athupalayam Dam	Noyyal	Completed	Earthen	2850	14.06	1992	Irrigation
59	Tamil Nadu	Tiruppur	Noyyal Orathupalayam Dam	Noyyal	Completed	Earthen	2290	21.7	1992	Irrigation

60	Karnataka	Mysore	Nugu Dam	Nugu	Completed	Earthen / Gravity & Masonry	637.65	43.58	1959	Hydroelectric, Irrigation
61	Karnataka	Bangalore	Obichudanahally Dam	Arkavathy	Completed	Earthen	637	28.7	1989	Irrigation
62	Tamil Nadu	Dindigul	Palar Porundalar Dam	PalarPorundalar	Completed	Earthen	2451	32	1978	Irrigation
63	Tamil Nadu	Dindigul	Parappalar Dam	Parappalar	Completed	Gravity & Masonry	81.07	39.62	1974	Irrigation
64	Tamil Nadu	The Nilgiris	Parson's Valley Dam	Parson Valley Stream	Completed	Gravity & Masonry	146	43	1966	Hydroelectric
65	Tamil Nadu	The Nilgiris	Pegumbahallah Forebay Dam	Pengumbahallh	Completed	Gravity & Masonry	181	55	1965	Hydroelectric
66	Tamil Nadu	Coimbatore	Pillur Dam	Bhavani	Completed	Gravity & Masonry	357	88	1967	Hydroelectric
67	Tamil Nadu	Karur	Ponnaniar Dam	Ponnaniyar	Completed	Earthen / Gravity & Masonry	246.81	24.84	1974	Irrigation
68	Tamil Nadu	The Nilgiris	Porthimund Dam	Porthimund St	Completed	Gravity & Masonry	335	56	1966	Hydroelectric
69	Kerala	Palakkad	Siruvani (I D) Dam	Siruvani	Completed	Gravity & Masonry	224	57	1984	Drinking / Water Supply
70	Karnataka	Chamarajanagar	Suvarnavathy Dam	Suvarnavathy	Completed	Earthen / Gravity & Masonry	1170.4	25.9	1984	Irrigation
71	Karnataka	Mysore	Taraka Dam	Taraka	Completed	Earthen / Gravity	1272.5	37.49	1984	Irrigation

						& Masonry				
72	Karnataka	Mandya	Thonnur Dam	Hebballa Valley	Completed	Earthen	118.8	24.384	1000	Irrigation
73	Tamil Nadu	Dharmapuri	Thoppaiyar Dam	Thoppaiyar	Completed	Earthen	435	19.75	1986	Irrigation
74	Karnataka	Bangalore	Tippagondana Hally Dam	Arkavathy & Kumudavathy	Completed	Gravity & Masonry	451.104	49.68	1934	Drinking / Water Supply
75	Karnataka	Chamarajanagar	Uduthorehalla Dam	Uduthorehalla	Completed	Earthen	1530	40		Irrigation
76	Tamil Nadu	The Nilgiris	Upper Bhavani Dam	Bhavani	Completed	Gravity & Masonry	419	80	1965	Hydroelectric
77	Tamil Nadu	Erode	Varattupallam Dam	Varattupallam	Completed	Earthen	1798	15.5	1978	Irrigation
78	Tamil Nadu	Tiruppur	Vattamalaikarai Odai Dam	V.K. Odai	Completed	Earthen	1820	20	1978	Irrigation
79	Karnataka	Hassan	Votehole Dam	Votehole	Completed	Earthen / Gravity & Masonry	900	44.48	1984	Irrigation
80	Karnataka	Hassan	Yagachi Dam	Yagachi	Completed	Earthen / Gravity & Masonry	1280	26.237	2001	Irrigation

(Source: India WRIS)

7. CRB: RIVERS TRAVERSING THROUGH VARIOUS DISTRICTS IN THE BASIN AREA

In the Cauvery River Basin, there are a total of 757 named streams, collectively spanning a length of 14,022.77 km. The streams are predominantly located in Tamil Nadu, which accounts for the largest share with 421 streams and a total length of 8,392.88 km. Karnataka follows with 272 streams totalling 4,926.96 km. The remaining streams are distributed between Kerala and Pondicherry, with 55 streams of 633.82 km length and 9 streams of 64.49 km length, respectively. Table 3 shows the named rivers in the Cauvery River Basin

Table 3. Named Rivers in CRB

S.No.	State	District	Named Rivers	River Name
1.	Tamil Nadu	Ariyalur	17	Uppu Odai A, Aladi Odai, Kollidam River A, Malangankudiyiruppu Odai, Vilangudi Odai, Vanchiyam Odai A, Kallar R A, Marudaiyar A, Ottan Odai A, Ottan Odai B, Uppodai River A, Chempan Odai, Man Odai, Vanchiyam Odai B, Andi Odai, Mettal Odai, Vadavar Channel B
2.	Tamil Nadu	Coimbatore	31	Gunukkumadavu, Niralai Pallam, Arakadavu Pallam A, Noyyal River B, Gudakkai Halla, Coonoor R, Elerumai Pallam B, Kunda R A, Perum Pallam C, Periya Pallam C, Kallar R B, Arakadavu Pallam B, Vannattan Garai, Perum Pallam D, Noyyal River A, Elerumai Pallam C, Elerumai Pallam A, Mantarai Pallam, Bhavani A, Pare Pallam, Girgichi Pallam, Adakkallinaduvu Pallam, Pungalammam Pallam, Senjeri Karai, Periya Pallam D, Perum Pallam E, Periya Pallam A, Periya Pallam B, Kodungarai Pallam, Chinna Ar, Tennasi Pallam
3.	Tamil Nadu	Cuddalore	4	Uppanar River B, Coleroon River B, Kollidam River A, Vadavar Channel B
4.	Tamil Nadu	Dharmapuri	39	Kakkani Maduvu, Mathala Pallam, Dasari Pallam, Tankallu Pallam, Anaibidda Halla, Varattu Kanar, Gudravalli Pallam, Palar or

				Nagavati R, Guttala Pallam, Chitra Pallam, Yelakettu Halla, Tirumanimuttar N, Cauvery River, Kattali Pallam, Jarkalnaduvu Pallam, Chittampatti Pallam, Periya Pallam H, Maddala Pallam, Ottu Pallam, Tattai Pallam, Sintalapadi Pallam, Tottimaduvi Pallam, Varattu Pallam A, Kallumaduvi Pallam B, Bupanur Halla, Periya Pallam E, Panankattu Pallam, Periya Pallam G, Adda Vanka, Veppadi Or Toppai Ar, Gora Maduvu, Totti Pallam A, Sembarutti Pallam, Budipatti Pallam, Ichappadi Pallam, Chinnar River B, Vanhatti Pallam, Perriya Pallam, Kottam Pallam
5.	Tamil Nadu	Dindigul	41	Odaikkarai Ar, Palar R, Uttuchottu Odai, Kuttar R, Gundar R C, Oddankombai Ar, Periya Pallam K, Talai Ar, Kanal Ar, Nanganji Ar, Seradi Pallam, Mangarai Ar, Santana Vardhani Ar, Amaravathi River, Gundar R A, Pudukkulam kombai Ar, Kallar R C, Andankarai R, Umaiyar R, Kodavanar River, Gundar R B, Chembuttukkarai Odai, Pilavachi Ar, Porandalar R, Kudiraiyar River, Nayadi Pallam, Varattar R, Gajattu Odai, Mangarai Ar, Talayarai Ar, Mamundi Ar, Nallatangal Odai, Varattar River, Kodavanar River B, Kumbur Ar, Periya kombai Ar, Kulai Ar, Pachaiyar River, Tevankarai Ar, Shanmuga Chittar R, Shanmukha Nadi
6.	Tamil Nadu	Erode	108	Tallumaduvi Pallam, Gundumaduvan Halla, Kere Halla, Godrabhavi Pallam, Lower Bhavni Main Canal, Cauvery River, Karuppanrayar Pallam, Vara Pallam, Araikadu Halla, Vannar_ odai, Dodda Halla A, Perum Pallam B, Tottimaduvi Pallam, Gulya Halla C, Moyar R, Gundri Pallam, Sundappalli Pallam, Jogatti Halla, Panangattu Pallam, Sigana Halla,

Badumadavu Halla, Hukibedda Pallam, Periya Pallam F, Nagakombai Pallam, Perum Pallam A, Balepadugu Halla, Mamadu pallam, Rangangudi Halla, Valamadugu Pallam B, Kuranga Pallam, Kambanur Pallam, Pusinikuli Pallam, Kodanur Pallam, Mappillaigundu Pallam, Tayiru Pallam, Uchegundi Halla, Bera Halla, Setti Pallam, Bale Halla, Mangamari Pallam, Valamadugu Pallam A, Jodimaduyu Pallam, Varattu Pallam B, Duragam Pallam, Dasara Pallam, Kukkaltoori Halla, Noyyal River A, Chinalekombai Pallam, Kandiyannur Pallam, Toddi Maduvu, Gundippa Pallam, Kodakkottu Pallam, Kanavaikombai Pallam, Hakkaarana Halla, Sikatti Halla, Edaikanchi Pallam, Tadapalli Kungalur, Kumbaravani Pallam, Totti Pallam B, Kallakarai Pallam, Karamaduvu Pallam, Kovil Pallam, Bhavani A, Doddarkadavu Pallam, Nerla Pallam, Kombu Pallam, Suvarnavathi or Honnu Hole, Chittar R, Bhavani C, Varattukkara Pallam, Monjikadina Pallam, Asigatti Pallam, Doddakombai Pallam, Sir Pallam, Chikka Hole, Jodimaddi Pallam, Honna Hole, Uppu Pallam, Haleru Halla, Bhavani B, Mudalaimadai Ar, Dodda Pallam, Chinna Pallam, kedar halla, Karumalai Pallam, Varapala pallam, Tadapalli Canal, Boli Pallam, Pungam Pallam A, Hale Halla, Ichippali Pallam, Kodampalli Pallam, Seruputuki Pallam, Anjanai Pallam, Uppulakki Pallam, Pal Ar, Kilalattur Pallam, Karadimaduvu Pallam, Kaikal Pallam, Kangampalaiyam Pallam, Perum Pallam G, Palar, Mondi Pallam, Pungam Pallam B, Kombai Pallam, Kenjanur Pallam, Gunukkumadavu, Kuttara Pallam

7.	Tamil Nadu	Karur	17	Chembuttkarai Odai, Nanganji Ar, Pungar River, Cauvery River, Mamundi
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				River, Shanmuga Chittar R, Uppar Odai A, Andankarai R, Ponnani Ar, Noyyal River A, Tirumanimuttar N, Pungodai Nadi, Amaravathi River, Napili R, Uttuchottu Odai, Kodavanar River, Veluran Kuttai
8.	Tamil Nadu	Krishnagiri	64	Akkatangikova Halla A, Periya Pallam I, Kolimara Pallam, Sunnorti Halla, Ganatti Halla, Bhavi Halla, Karadikkal Halla, Bhavi Pallam, Gulya Halla A, Nir Pallam, Tottimaduvi Pallam, Siddannakota Halla, Emmenatti Halla, Sanatkumara Nadi, Ajjimaduvu Halla, Mavinamarada Halla, Kobe Halla, Dodda Halla E, Muttiyalamma Hole, Bupanur Halla, Chitra Pallam, Metimaduvu Pallam, Gelikal Pallam, Tenkallu Pallam, Anaibidda Halla, Bennatti Halla, Kiltotta Halla, Chinnar River B, Butanainaduvu Pallam, Kattiri Pallam, Aldari Pallam, Kalli Halla, Enchi Pallam, Kattali Pallam, Sunkatti Halla, Gudravalli Pallam, Gaumadiyan Halla, Sige Halla, Siremedu Halla, Battalamaduvu Halla, Hebba Halla A, Kittilimarattu Pallam, Mirre Vanka, Gudi Halla, Totti Pallam A, Sambare Halla, Balekadam Pallam, Cauvery River, Gundumadu Halla, Ichimaduvu Halla, Bevanhatti Halla, Kallumaduvu Pallam A, Kanchi Halla, Doddaguli Halla, Jumbutti Pallam, Basavanmaduvu Pallam, Koragallu Pallam, Akkatangikova Halla B, Gudray Pallam, Torlemutti Halla, Gurujagulli Halla, Bhavuhaggu Halla, Madeshvara Halla, Kakkani Maduvu
9.	Tamil Nadu	Mayiladudhurai	27	Manniyar River A, Manjalar River, Manniyar River B, Kollidam River A, Nandalar River B, Mangimalaiyar River, Nandalar River C, Virasolanar River, Aiyavaianar R, Cauvery River, Vikramanar River, Manjavaykal River, Uppanar River C, Nandalar River D,

				Sevannar River, Coleroon River B, Nattar River, Manniyar River C, Palayar River, Kiritimanar River, Nandalar River A, Manikarnikal Canal, Vadiyar River, Ambanar River, Uppanar River A, Tirunagari Vaikkal, Uppanar River D
10.	Tamil Nadu	Namakkal	9	Kuranga Pallam, Cauvery River, Noyyal River A, Tirumanimuttar N, Karaipottanur River, Aiyar River A, Karuvat Ar, Bhavani A, Pungodai Nadi
11.	Tamil Nadu	Nagapattinam	22	Devanadi R, Arasalar River, Adappar, Velappar River, Koduvaiyar River A, Pandavaiyar River, Malliyanar R, Tirumalairajanar River, Mudikondan River, Harichandranadi River, Mulliyar R A, Vettar River, Koduvaiyar River A, Koduvaiyar River B, Nallar, Palavanar, Mulliyar R B, Odambokkiyar River A, Siruvettanar, Valavanar, Puttar or Puravadaiyanar River, Aiyar River C
12.	Tamil Nadu	Perambalur	10	Marudaiyar A, Uppu Odai, Vanchiyam Odai A, Uppar R A, Vanchiyam Odai B, Marudaiyar D, Kundiya R, Mettal Odai, Marudaiyar B, Marudaiyar C
13.	Tamil Nadu	Pudukkottai	4	Cholagampatti Vari A, Koraiyar R, Mudalampatti River, Cholagampatti Vari B
14.	Tamil Nadu	Salem	35	Tirumanimuttar N, Bodamalai Pallam, Bodatti Pallam, Maddala Pallam, Kandiyannur Pallam, Valankuli Pallam, Martahalli Halla, Mottaikombai Pallam, Chittar R, Sarabanga River, Kalvangur Pallam, Haleru Halla, Olinjodi Pallam, Pal Ar, Mappillaigundu Pallam, Cauvery River, Veppadi Or Toppai Ar, Palar, Emmatti Pallam, Panankattu Pallam, Nandikodikka Ar, Kumbur Pallam, Maniyachi Pallam, Ramanamaduvu Halla,

				Tumbalkadu Pallam, Dodda Halla B, Pinyar Or Kalar River, Varattu Pallam B, Kalatti Pallam, Periya Pallam J, Periya Pallam G, Pattumanjikulam Pallam, Araikkadu Pallam, Kumbaravani Pallam, Ottu Pallam
15.	Tamil Nadu	Thanjavur	28	Uppanar River C, Mudikondan River, Aiyar River D, Cauvery River, Kulaiyar R, Palayar River, Vikramanar River, Tirumalairajanar River, Pamaniyar R, Vettar River, Nandalar River A, Nattar River, Semperi, Chologampatti Vari B, Kattar R, Mudalampatti River, Kannanar River, Vadavar Channel B, Manjalar River, Kodamurutti River, Kollidam River A, Vilangudi Odai, Coleroon River A, Vennar River, Virasolanar River, Arasalar River, Kiritimanar River, Vadavar Channel A
16.	Tamil Nadu	The Nilgris	32	Alade Halla, Moyar R, Kukkaltorai Halla, Bellarambu Halla, Katteri R, Kudukki Odai, Arakalaronikore Halla, Mavin Halla, Sigur Pallam, Coonoor R, Dimbadahatti Halla, Kilinjada Halla, Lakkadi Halla, Niralai Pallam, Girgichi Pallam, Kunda R A, Kunda R B, Karimulli Nala, Gunukkumadavu, kedar halla, Doddakatti Halla, Silla Halla, Pungam Pallam B, Hunasekandi Halla, Arekaduvina Halla, Sikatti Halla, Gudakkai Halla, Pykara River, Bhavani A, Kasola R, Kekkan Halla, Chagarekaduvina Halla
17.	Tamil Nadu	Tiruchirapalli	36	Nandiyar River B, Amaravathi River, Aiyar River D, Uppodai River A, Uppar Odai D, Cauvery River, Koraiyar R, Aiyar River A, Sangai, Uppodai River B, Chologampatti Vari B, Kollidam River A, Chandramati Odai, Mamundi Ar, Uppar R A, Aiyar River B, Rudraikombai Ar, Uppodai River C, Uppodai River D, Mamundi River, Kattar R, Man Odai, Pungar River, Kulaiyar R, Ponnani Ar, Coleroon River A, Nandiyar River A, Kollidam River B, Karaipottanur River,

				Napili R, Gundar N, Mamundi River, Nandiyar River, Uppar Odai C, Uppu Odai B, Uppar R B
18.	Tamil Nadu	Tiruppur	35	Kaiyanivalasu Odai, Nelali Karai, Noyyal River B, Pambar River, Kudiraiyar River, Mangai Ar, Andankarai R, Varattu Karai, Manalalai Ar, Vattamalai Karai, Shanmuga Chittar R, Chinnakarai N, Varavandi Odai, Chinna Karai, Ten Ar, Upper Odai, Kumbur Ar, Nallar R, Periya Pallam K, Vannattan Garai, Kodakkottu Pallam, Kodandur Ar, Nallatungal Odai, Orakkuli Pallam, Chinnar River A, Pugan Odai, Noyyal River A, Kaludaikatti Odai, Perum Pallam D, Shanmukha Nadi, Uppar Odai B, Senjeri Karai, Veluran Kuttai, Amaravathi River, Chinnar R B
19.	Tamil Nadu	Tiruvarur	41	Pamaniyar R, Arasalar River, Kodamurutti River, Aiyar River C, Nandalar River A, Ponnukkundanar River A, Marakkakoraiyar A, Kilaittangiar River, Nallar, Vanjiyar River, Nattar River, Nular River, Salavanar, Mudikondan River, Koduvaiyar River A, Koraiyar River, Velappar River, Pandavaiyar River, Mulliyar River A, Semperi, Odambokkiyar River A, Adappar, Killaittangiar, Vennar River, Devanadi River, Kannanar River, Odambokkiyar River B, Pottaiyar, Malliyanar River B, Harichandranadi River, Vettar River, Puttar or Puravadaiyanar River, Tirumalairajanar River, Malliyanar River, Kiritimanar River, Vadavar Channel A, Palampandiyar River, Nandalar River D, Ponnukkundanar River B, Pandiyar, Valavanar
20.	Puducherry	Karaikkal	7	Nattar River, Nandalar River A, Nular R, Arasalar River, Tirumalairajanar River, Puttar or Puravadaiyanar River, Vanjiyar River
21.	Karnataka	Bengaluru Rural	3	Arkavathi River C, Kumudvati R, Hosa Kalve

22.	Karnataka	Bengaluru Urban	12	Suvarnamukhi River, Vrishabhavati River, Antaragange Hole, Gadipalyada Halla, Mavathur Kere, Sudde Halla, Tattaguppe Halla, Muttiyalamma Hole, Nagabhavi Thorai, Kumudvati River, Arkavathi River C, Timmarayana Halla
23.	Karnataka	Chamarajanagar	103	Bilpatramarada Halla, Bande Halla, Chagarekaduvina Halla, Yelakettu Halla, Balekadam Pallam, Dumuk Halla, Suvarnavathi or Honnu Hole, Hebba Halla E, Sulukutti Halla, Uppalla Halla, Agasagitti Halla, Palar, Mulai Halla, Badrana Halla, Kirapati Halla, Hebba Halla B, Hunse Halla, Dimbadahatti Halla, Siremedu Halla, Gurujagulli Halla, Hunasekandi Halla, Tengina Halla, Moranur Halla, Nugu River A, Chalvana Halla, Besakkana Halla, Dodda Halla I, Utubhavi Halla, Alahalli Adda Halla, Anmadiyan Halla, Shimsha River A, Narabal Halla, Gulya Halla C, Kuruballi Halla, Chikka Hole, Mavin Halla, Kekkan Halla, Bevanhatti Halla, Heb Halla A, Bara Halla, Gulya Halla B, Gulyada Halla, Dodda Hole or Gundal Hole, Kuttakere Halla, Pangadi Halla, Uttapiam Halla, Kadagumarathu Halla, Karamaduvu Pallam, Minnattu Halla, Kudlur Halla, Mankallu Halla, Kallumaduvu Pallam A, Cauvery River, Bhavuhaggu Halla, Masti Halla, Dodda Halla C, Arkana Halla, Kodi Halla, Kombayalatta Halla, Tonda Halla, Arakalaronikore Halla, Dodda Halla F, Yenne Hole A, Manimaduvina Halla, Devalapur Halla, Bagli Halla, Muguru Adda Halla, Gudi Halla, Pachinarai Halla, Ure Halla, Devaramadu Halla, Vanbare Halla, Martahalli Halla, Arekaduvina Halla, Odakki Halla, Chikka Halla, Kanchi Halla, Sikatti Halla, Gundal River, Nugu Hole, Honnimaduvina Halla, Gaudikere Halla, Sunkatti Halla, Karadikkal Halla,

				Mamaduvu Halla, Gulya Halla A, Kattanurbavi Halla, Araikadu Halla, Badaladugana Halla, Chinnar River B, Muninada Halla, Matti Halla, Naduttai Halla, Doddamavina Halla, Doddakatti Halla, Gaumadiyan Halla, Udutorai Halla B, Tatte Halla, Neralemarada Halla, Mantudukkai Halla, Moyar River, Nirgudi Halla, Hebbanmodu Halla
24.	Karnataka	Chikkamagaluru	7	Yagachi Halla, Sunnada Halla, Bakki Halla, Hemavathi River, Biranji Halla, Japavati Hole, Vedavati Halla
25.	Karnataka	Hassan	32	Hebba Halla C, Palhalli Hole, Biranji Halla, Aigur Halla, Chitna Halla, Sote Abbur Halla, Kajuru Hole, Uchangi Hole, Cauvery River, Hos Halla, Sagani Halla, Doddur Halla, Bemmati Hole, Bannahalli Halla A, Kira Halla, Yagachi River, Buvanngal Halla, Hoskote Hole, Bannahalli Halla B, Vedavati Halla, Nyayada Halla, Hemavathi River, Nallur Halla, Bilaha Halla, Gaudahalli Hole, Alur Hole, Gulgalale Halla, Kadaban Halla, Benagina Halla, Vate Hole, Byadin Halla, Japavati Hole
26.	Karnataka	Kodagu	85	Chandrakadu Hole, Kallu Halla, Hebba Halla, Alur Hole, Lakshmanathirtha River B, Mattamudi Hole, Kargal Halla, Yaradubabali Halla, Tora Todu, Kumme Hole, Nandi Motte Hole, Koran Todu, Harangi Hole, Hadagal Hole, Mahatittu Todu, Cauvery River, Rudragauppe Hole, Bilaha Halla, Balya Todu, Vallamballi Halla, Buvanngal Halla, Kajuru Hole, Murkal Todu, Uchangi Hole, Nagar Hole, Nanachi Todu, Santhalli Hole, Tantri Hole, Kolekeri Halla, Mullapalli Todu, Dodda Todu, Mutnar Hole, Kolli Todu, Hoskote Hole, Balemarada Halla, Nyayada Halla, Doddahalla Todu, Kalhalla Todu,

				Kodange Todu, Sote Abbur Halla, Ammanna Todu, Hatti Hole, Mavina Halla, Kokkabe Hole, Kal Todu, Hachinad Hole, Sanna Hole, Kadanur Hole, Kakke Hole, Kire Hole, Chikkapala Todu, Komme Todu, Belleri Hole, Kekunda Todu, Adda Halla, Byran Hole, Ramatirtha Hole, Dodda Kolli, Kallumanti Halla, Siddapura Todu, Hakki Hole, Sarati Hole, Hemb Halla, Avandi Hole, Marur Hole B, Madapur Hole, Marur Hole A, Dushle Hole, Bitrmarada Hala B, Hemavathi River, Abbimatta Hole, Haraga Hole, Ulpe Todu, Gaudahalli Hole, Kuttu Puzha, Abbidary Hole, Majjige Halla, Charan Hole, Benethara Todu, Kongana Bemmatti Hole, Vaddarmadu Todu, Onchalla Hole, Kakkeri Todu, Kathalla Todu
27.	Karnataka	Mandya	28	Shimsha River A, Chikka Tore, Kani Halla, Mulla Halla, Hebba Halla D, Siluthore Nala, Hasurubore Halla, Kanava Hole, Habbi Halla, Dodda Halla J, Muninada Halla, Heb Halla B, Muni Halla, Lokapavani River, Chikka Ballikodi Halla, Hulu Halla, Bennanebare Halla, Kisarakki Halla, Viravaishnava Nadi, Badaladugana Halla, Cauvery River, Kane Halla, Odakkatti Halla, Hemavathi River, Vadgal Halla, Hebba Halla, Lakshmanathirtha River B, Yamaduru Halla
28.	Karnataka	Mysuru	52	Hebba Halla G, Harangi Hole, Nugu River B, Nugu Hole, Kannegal Hole, Jedi Halla, Kabini, Sarati Hole, Yaradubabali Halla, Kotige Halla, Hemb Halla, Kamale Todu, Balegaran Todu, Hebba Halla H, Lakshmanathirtha River A, Dodda Hole or Gundal Hole, Sabkere Halla, Kalbavi Halla, Anape Kolli, Heb Halla A, Kallu Halla, Byran Hole, Hebbal Halla, Murkal Todu, Yenne Hole B, Sebin Koli, Kargal Halla, Nugu River A, Masale Todu,

				Bitrmarada Hala A, Taraka River, Bavali Puzha, Suttan Halla, Kadaman Todu, Bitrmarada Hala B, Cauvery River, Alahalli Adda Halla, Adda Halla, Hemavathi River, Nagar Hole, Sanna Balle Balle Halla, Lakshmanathirtha River B, Balemarada Halla, Kolli Halla, Muguru Adda Halla, Maragalada Halla, Vaddali Hole, Gundal River, Bhutan Halla, Siddapura Hebba Halla, Marala Halla
29.	Karnataka	Ramanagaram	43	Mulla Halla, Vrishabhavati River R, Basavanakere Halla, Dodda Kobu, Arasangala Hole, Arkavathi River A, Doddaguli Halla, Cauvery River, Bande Halla, Narabal Halla, Sitaltore Nala, Arkavathi River B, Dodda Halla H, Timmarayana Halla, Odakkatti Halla, Mavathur Kere, Mulai Halla, Dodda Halla D, Arkavathi River C, Makkalanda Halla, Kanava Hole, Shimsha River A, Vanbare Halla, Banda Halla, Mankallu Halla, Vasati Halla, Sudde Halla, Dodda Halla G, Gadipalyada Halla, Ajjimaduvu Halla, Antaragange Hole, Tattaguppe Halla, Kumudvati River R, Bage Halla, Balaboli Halla, Lingadgudi Halla, Agasagitti Halla, Muttiyalamma Hole, Bhargavati Hole, Narikallu Halla, Rayamala Hole, Siddannakota Halla, Suvarnamukhi River
30.	Karnataka	Tumakuru	7	Shimsha River A, Nagani Nadi, Shimsha River B, Sanbaghatta Halla, Siluthore Nala, Viravaishnava Nadi, Hosa Kalve
31.	Kerala	Idukki	19	Kanni Ar, Chinnar R B, Kodakkadu Ar, Vattavada Ar, Tunnel Ar, Manalalai Ar, Kudal Ar, Nasimuttu Odai, Kannappanmannadi Odai, Tengar N, Periyar Ar, Iravikulam Ar, Vannanturai Odai, Chinnar River A, Kovilkadavu Ar, Pambar River, Palappatti Oda, Mangai Ar, Talaiyar Ar

32.	Kerala	Palakkad	8	Varagar Pallam, Kodungarai Pallam, Kunda R A, Bhavani A, Karuttur Ar, Seruvani River, Lakkadi Halla, Panthan Todu
33.	Kerala	Wayanad	35	Chundal Puzha, Periya Puzha, Karaman Todu, Mannantavadi River, Balegaran Todu, Manantoddy Puzha, Narsai Puzha, Kadaman Todu, Oda Pallam, Vaddali Hole, Kakkeri Todu,, Bavali Puzha, Tudukutti Ar, Cheru Puzha, Padiri Puzha, Kannegal Hole, Manjat Todu, Nugu Hole, Manikkadu Pauzha, Bitrmarada Hala B, Pozhutana Puzha, Kabini, Kannatam Puzha, Niravi Puzha, Masale Todu, Panamaram Puzha, Nul Pula A, Kalindi Puzha, Mavin Halla, Nadundana Todu, Venniyottu Puzha, Kara Puzha, Muddalli Todu, Nul Pula B, Chedleth Puzha

8. RIVER BASINS IN INDIA: LEVEL 1

A Level 1 River Basin refers to the major river basins in India, which comprise the main river along with all its tributaries, and are defined by natural boundaries such as ridges or elevated terrain that direct the flow of water. The CWC has listed the level 1 major river basins in India, which are shown in Fig. 10.

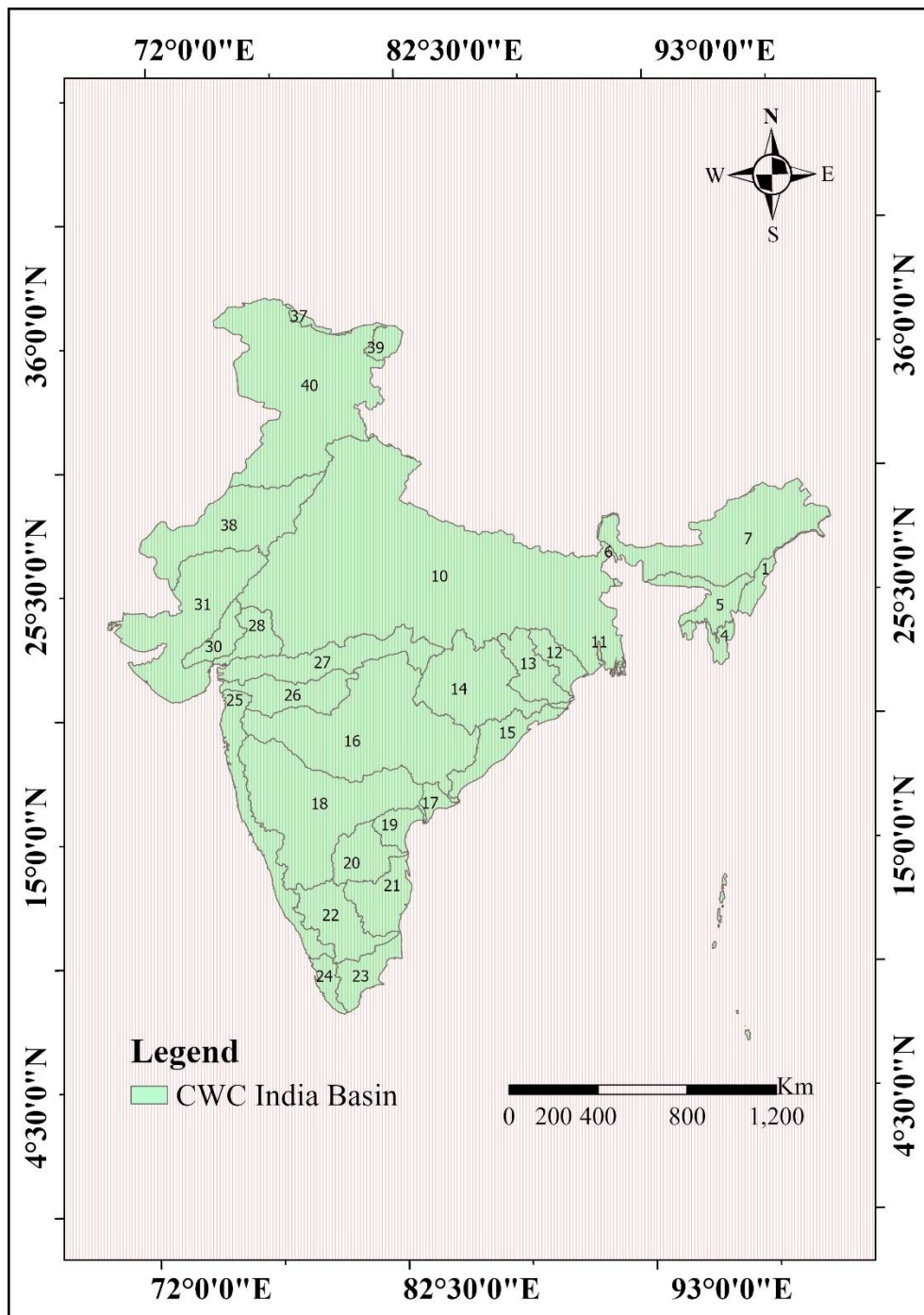


Fig. 10.: Level 1 River Basin in India

(Source: CWC)

Table 4. List of Level 1 Basins in India (As Listed by CWC)

Basin Code	Basin Name
1	Indus (Up to Indian 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 rivers from Tapi to Tadri
15	West flowing rivers from Tadri to Kanyakumari
16	East flowing rivers between Mahanadi and Pennar
17	East flowing rivers between Pennar and Kanyakumari
18	West flowing rivers of Kutch and Saurashtra including Luni
19	Area of inland drainage in Rajasthan
20	Minor rivers draining into Myanmar (Burma and Bangladesh)

(Source: CWC)

9. CRB: LEVEL 2

A Level 2 Sub-basin indicates the principal tributary of the main river and is a subdivision of the Level 1 basin. Level 2 Sub-basins function as distinct hydrological units within the Level 1 basin, contributing to the main stream by gathering water from smaller streams. Major Level 2 Sub-basins in the CRB are listed in the Fig 11.

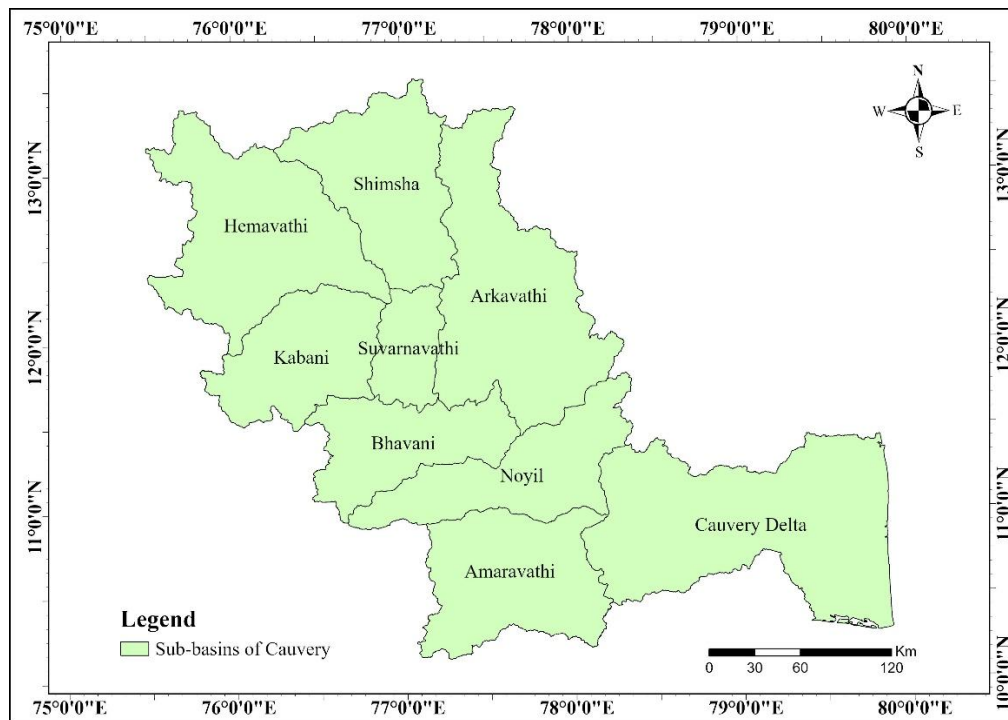


Fig. 11. Level 2 Sub-basins in CRB

(Source: HydroSHEDS)

Table 5. List of Significant Level 2 Sub-basins in CRB

S.No.	Sub-basins Name
1	Amaravathi
2	Arkavathi
3	Bhavani
4	Cauvery Delta
5	Hemavathi
6	Kabini
7	Noyyal
8	Shimsha
9	Suvarnavathi

10. CRB: LEVEL 3

A Level 3 Sub-basin is a further subdivision of Level 2 Sub-basins. The list of significant level 3 Sub-basins within the CRB is shown in Fig. 12.

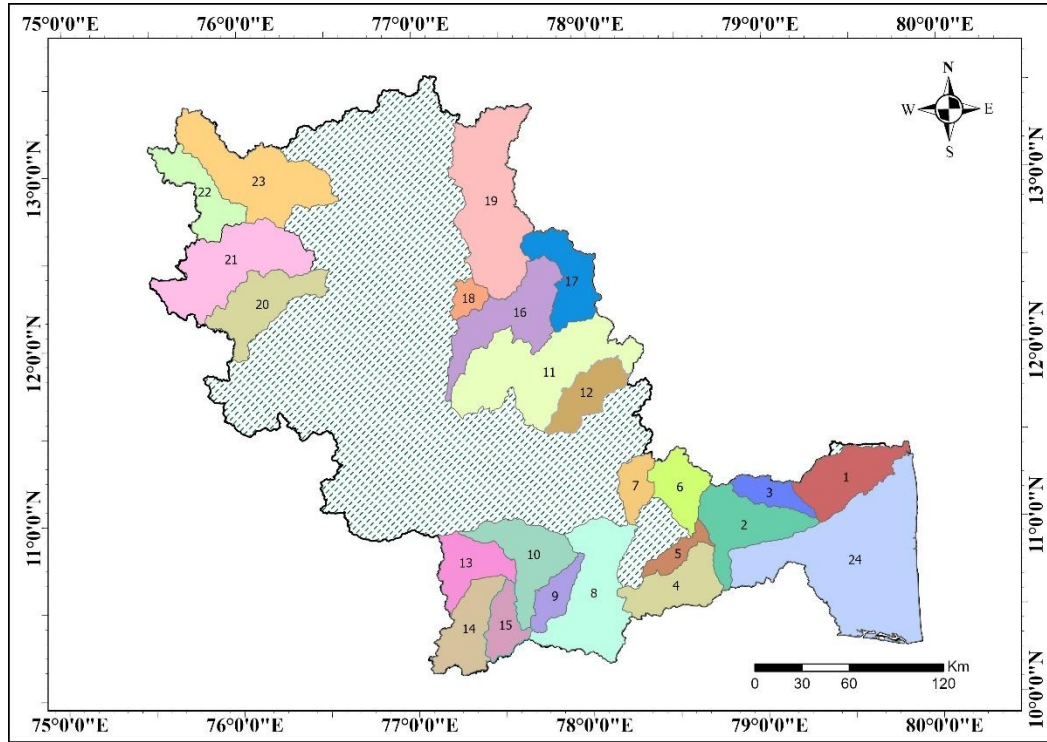


Fig. 12. Level 3 Sub-basins in CRB

(Source: HydroSHEDS)

Table 6. List of Significant Level 3 Sub-basins in CRB

S.No.	Sub-basin	S.No.	Sub-basin
1	Kollidam River	13	Chinna Karai
2	Kulaiyar R	14	Kudiraiyar R
3	Marudaiyar River	15	Shanmukha Nadi
4	Koraiyar River	16	Udutorai Halla
5	Napili R	17	Chinnar River
6	Aiyar R	18	Dodda Halla
7	Karaipottanur River	19	Suvarnamukhi R
8	Kodavanar R	20	Lakshmantirtha R
9	Naganji Ar	21	Harangi Hole
10	Andankarai R	22	Aigur Halla
11	Palar or Nagavati R	23	Yagachi R
12	Sarabhanga River	24	Arasalar R

11. CRB: LEVEL 4

A Level 4 Sub-basin represents the minor streams within the Level 3 Sub-basin. A list of some of the significant level 4 Sub-basins within the CRB is shown in Fig. 13.

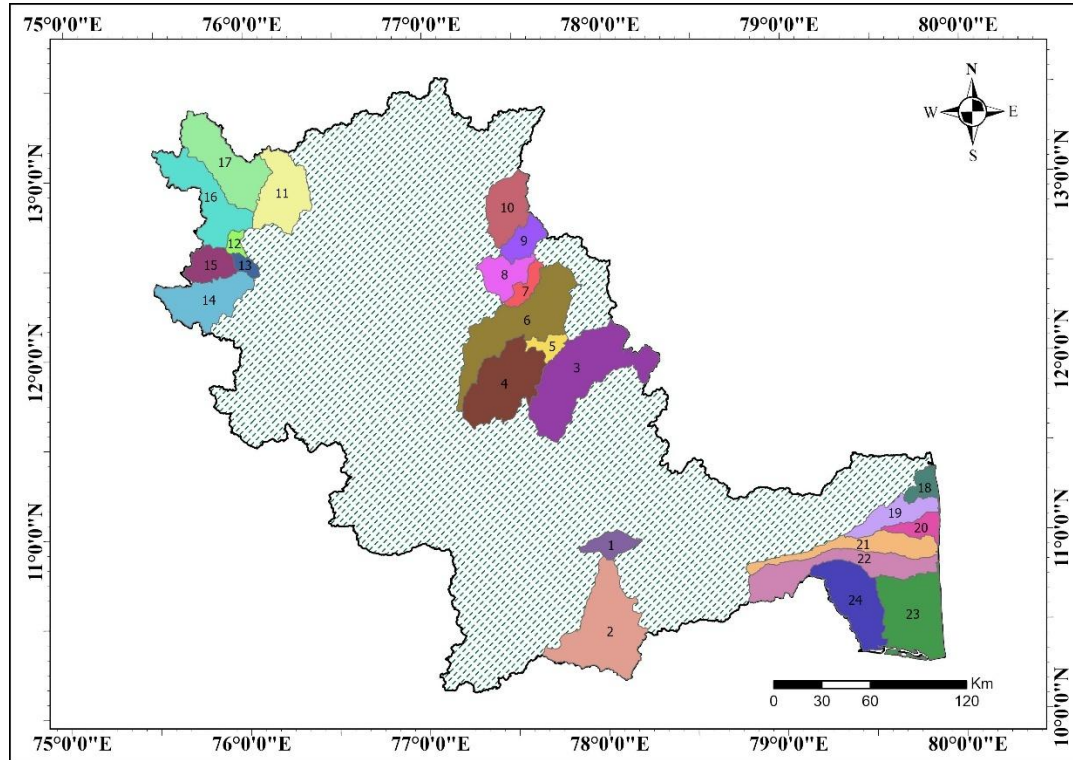


Fig. 13. Level 4 Sub-basins in CRB

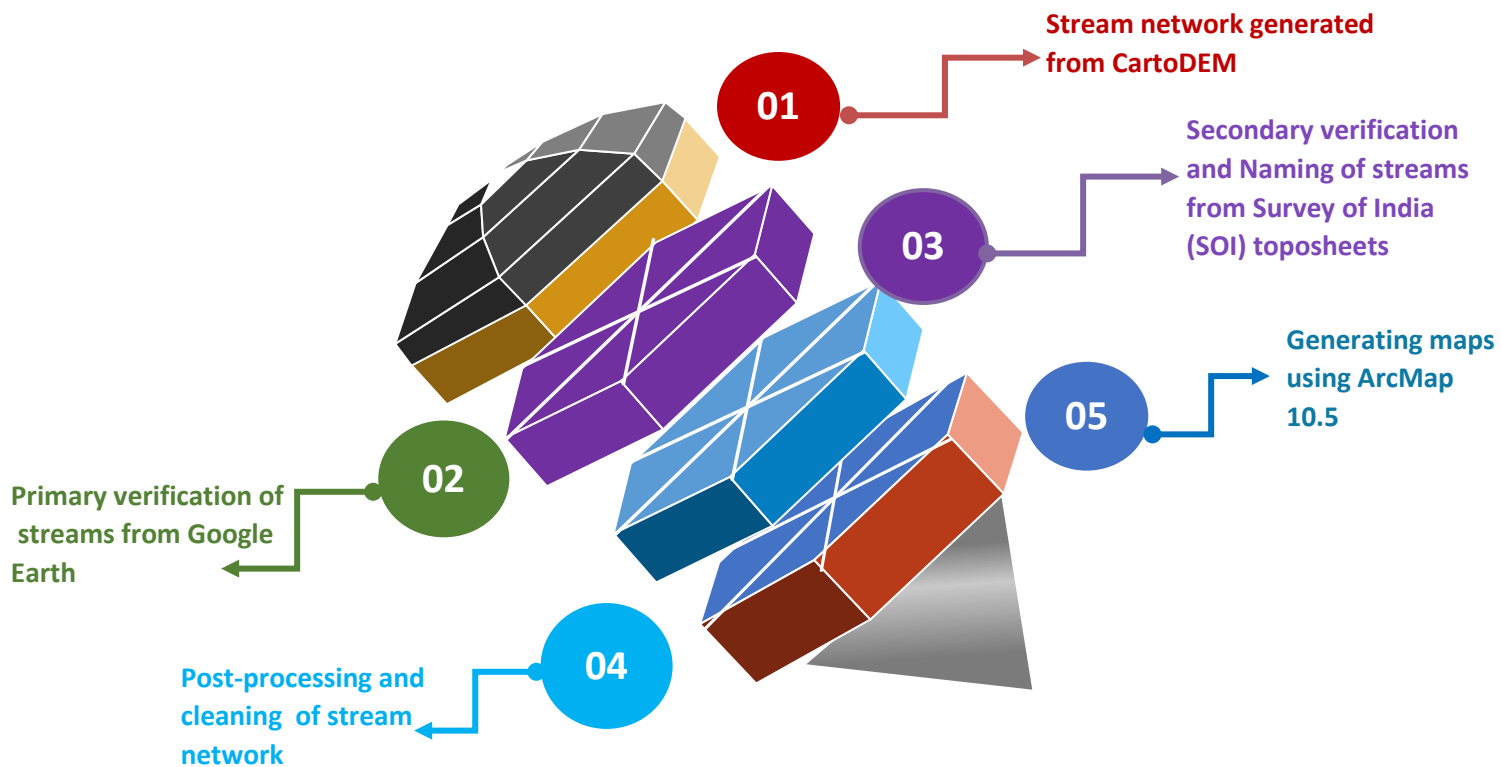
(Source: HydroSHEDS)

Table 7. List of Significant Level 4 Sub-basins in CRB

S.No.	Sub-basin	S.No.	Sub-basin
1	Uppar Odai A	13	Adda Halla
2	Kodavanar River	14	Mattamudi Hole
3	Veppadi or Toppai Ar	15	Harangi Hole
4	Maniyachi Pallam	16	Doddur Halla
5	Yelakettu Halla	17	Vate Halla
6	Gulya Halla A	18	Maniyar River A
7	Dodda Halla	19	Mangimalaiyar River
8	Doddaguli Halla	20	Nandalar River D
9	Mavathur Kere	21	Nular R
10	Vrishabhavati R	22	Vettar R
11	Hebba Halla C	23	Harichandranadi River
12	Alur Hole	24	Kannanar River

12. RIVER NETWORK PREPARATION METHODOLOGY

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



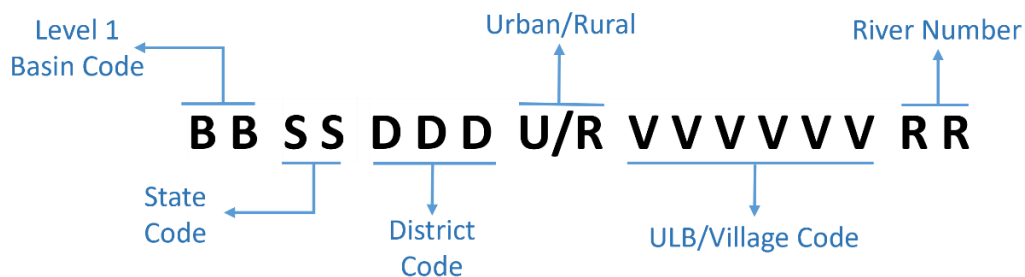
- Streams less than 1.0 km from local agricultural land are not covered.
- All streams originating from populated areas (urban or rural) are covered, even if they are less than 1 km (if it is visible) on Google Earth images.

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

13. RIVER CODIFICATION METHODOLOGY

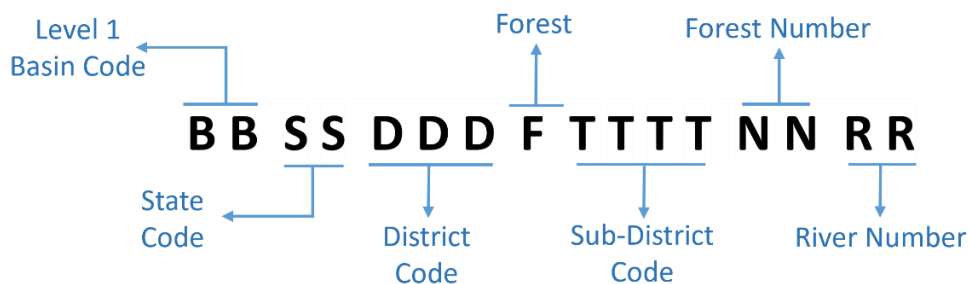
In the present Atlas, alphanumeric characters are used for coding the river systems. A combination of natural and administrative boundaries is used to assign a code to each river and stream. Each sub-step in the codification system is assigned a digit or alphabet that indicates the length of the code up to that point, and the total length of the code is 16 digits. For rivers originating outside India's national boundary, the point where the river enters the national boundary is considered its origin point.

RIVER ORIGINATES IN URBAN/RURAL AREA:



The first two digits denote the code for the major basin, based on the system proposed by the Central Water Commission (CWC) of the Government of India. Following this, the two alphabets indicate the state where the river originates, such as "TN" for Tamil Nadu, "KA" for Karnataka and "KL" for Kerala. The following three digits represent the district where the river originates. The next character, 'U' or 'R,' indicates whether the origin is in an urban or rural area. The subsequent six digits are the Urban Local Body (ULB) code if the river originates in an urban area or the village code if it originates in a rural area. The district and ULB/village code correspond to the origin of the river, and are available from the Local Government Directory, GoI (LGD) website. The final two digits indicate the number of the specific river that originates within the particular location falling within an administrative boundary, such as a town/city or a village.

RIVER ORIGINATES IN A FOREST AREA:



The first two digits denote the code for the major basin, based on the system proposed by the Central Water Commission (CWC) of the Government of India. Following this, the two alphabets indicate the state where the river originates, such as "TN" for Tamil Nadu, "KA" for Karnataka and "KL" for Kerala. The following three digits indicate the district where the river originates. The next character, 'F', signifies that the river originates in a forest area. The subsequent four digits denote the sub-district code where the forest is located. The following two digits indicate the number of the specified forest in the sub-district. The district, sub-district, and forest codes correspond to the river's origin, with district and sub-district codes available from the Local Government Directory (LGD) website, GoI. The final two digits indicate the number of the river that originates within the specific forest cover or range. Table 8 displays the Unique Identity Code of selected confluences along the Cauvery River. Fig. 11 shows the Origin points of all the streams contributing to the Cauvery River.

Table 8. Unique Identity Code of selected confluencing points of the Cauvery River

LEFT BANK

S. No.	River Name	Length (km)	UID Code	S. No.	River Name	Length (km)	UID Code
1	Balekadam Pallam	20.42	05TN577R64410401	22	Sarabanga River	90.59	05TN584R63388001
2	Bande Halla	4.41	05KA631R62657902	23	Siremedu Halla	4.87	05TN577R64408402
3	Bhavi Halla	7.48	05TN577R64408401	24	Sote Abbur Halla	27.71	05KA541R61788601
4	Bhavuhaggu Halla	9.56	05TN577R64408501	25	Sunnorti Halla	6.47	05TN577R64410704
5	Chinnar River B	106.08	05TN577R64400401	26	Tenkallu Pallam	6.61	05TN577R64410604
6	Dodda Halla E	22.12	05TN577R64410901	27	Tirumanimuttar N	127.01	05TN584R63415602
7	Dodda Kobu	8.36	05KA631R62656201	28	Torlemutti Halla	6.9	05TN577R64410605
8	Emmenatti Halla	2.21	05TN577R64410601	29	Veppadi Or Toppai Ar	77.40	05TN584R63409901
9	Ganatti Halla	18.46	05TN577R64411102	30	Vikramanar River	18.97	05TN735R63751701
10	Habbi Halla	5.46	05KA544F55520102	31	Arkavathi River C	170.27	05KA526R62507601
11	Harangi Hole	29.84	05KA541R61795801	32	Hemavathi River	232.93	05KA532R60992401
12	Kallumaduvu Pallam A	9.332	05TN577R64411603	33	Karaiyottanur River	20.59	05TN580R63467701
13	Kargal Halla	11.05	05KA541R61794402	34	Shimsha River A	195.51	05KA548R61202801
14	Kollidam River B	21.02	05TN591R63596601	35	Ottu Pallam	4.12	05TN571R64367601
15	Koragallu Pallam	15.01	05TN577R64410602	36	Panankattu Pallam	7.56	05TN571R64367701
16	Maddala Pallam	12.77	05TN571R64365901	37	Kottam Pallam	16.57	05TN571R64365601
17	Mankallu Halla	6.13	05KA631R62656202	38	Aiyavaiyanar R	15.47	05TN735R63746801
18	Mattamudi Hole	22.13	05KA541R61781101	39	Hasurubore Halla	3.97	05KA544R61480501
19	Mulla Halla	5.42	05KA631R62656203	40	Lokapavani R	48.81	05KA544R61401301
20	Palayar River	45.86	05TN586R63859301	41	Kisarakki Halla	7.13	05KA544F55520103
21	Sambare Halla	7.29	05TN577R64410603				

RIGHT BANK

S. No.	River Name	Length (km)	UID Code	S. No.	River Name	Length (km)	UID Code
1	Agasagitti Halla	4.98	05KA531F70770301	30	Tengina halla	9.79	05KA531R61981401
2	Aiyar River D	42.70	05TN586U25283301	31	Tonda Halla	9.78	05KA531R61988501
3	Aiyar River B	17.31	05TN591R63596501	32	Tora Todu	13.96	05KA541R61803602
4	Ammanna Todu	5.89	05KA541R61802401	33	Vanbare Halla	8.02	05KA531F70770302
5	Bevanhatti Halla	7.08	05KA531F70770602	34	Virasolanar River	51.22	05TN586R63848301
6	Byran Hole	8.79	05KA541R61802501	35	Arasalar River	84.76	05TN586R63859801
7	Dodda Halla C	16.24	05KA531R61981801	36	Manniyar River C	23.17	05TN735R63743401
8	Gaumadiyan Halla	5.52	05KA531F70770502	37	Noyyal River A	182.37	05TN569F59570102
9	Gudi Halla	9.79	05KA531F70770603	38	Pungar River	71.65	05TN576R63565802
10	Gulyada Halla	9.33	05KA531F70770604	39	Bhavani A	229.09	05TN587R63511804
11	Gurujagulli Halla	6.63	05KA531F70770605	40	Amaravathi River	195.45	05TN569F59000102
12	Kabini	174.51	05KL567R62730401	41	Kombayalatta Halla	5.41	05KA531F70770626
13	Kadanur Hole	22.02	05KA541R61801401	42	Yelakettu Halla	12.12	05KA531F70770627
14	Kallu Halla	17.29	05KA545R61824701	43	Perum Pallam A	19.87	05TN573R63497101
15	Kanchi Halla	1.67	05KA531F70770607	44	Chittar R	22.09	05TN573R63485701
16	Karadikkal Halla	4.12	05KA531F70770608	45	Dodda Hole or Gundal Hole	50.36	05KA531R61979801
17	Kodamurutti River	70.49	05TN586U25283101	46	Kattar R	23.25	05TN591R63603101
18	Kokkabe Hole	23.13	05KA541R61784101	47	Manikarnikal Canal	19.29	05TN735R63756501
19	Kumme Hole	18.51	05KA541R61803201	48	Alahalli Adda Halla	20.89	05KA531R61961401
20	Kuranga Pallam	28.52	05TN573R63504601	49	Narabal Halla	6.99	05KA531R61981701
21	Muguru Adda Hall	29.19	05KA531R61962101	50	Matti Halla	5.4	05KA531R61981702
22	Mulai Halla	5.61	05KA531F70770504	51	Muninada Halla	7.89	05KA531R61981402
23	Palar	70.01	05TN573R63489305	52	Badaladugana Halla	13.46	05KA531R61981802
24	Periya Pallam G	29.95	05TN573R63489102	53	Adda Halla	14.37	05KA545R61811501
25	Pungodai Nadi	11.09	05TN576R63549701	54	Kolli Halla	12.15	05KA545R61814101
26	Sevannar River	14.32	05TN735R63757801	55	Periya Pallam	11.15	05TN584R63376801
27	Sunkatti Halla	2.70	05KA531F70770505	56	Gulya Halla A	52.32	05KA531F70770634
28	Suvarnavathi or Honnu Hole	81.23	05TN573R63483703	57	Lakshmanathi rtha River B	155.84	05KA541R61807602
29	Tantri Hole	10.73	05KA541R61784201				

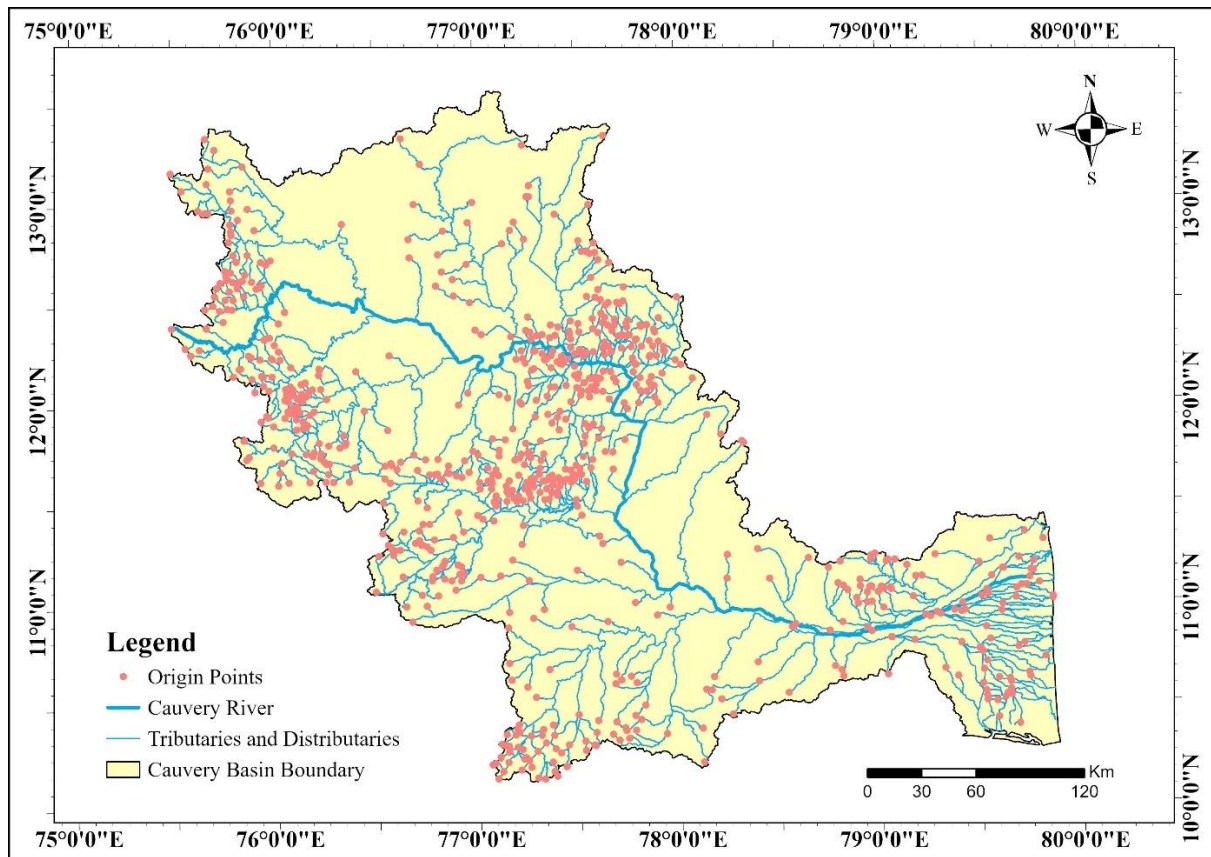


Fig. 14. Origin points of the Cauvery River Network

14. CRB NETWORK

The Cauvery River Basin is shown in Fig. 15. The details pertaining to the Cauvery River network are given below in Table 9.

Table 9. Details of CRB

Cauvery River UID Code	05KA541R61779401
River Length (km)	806.71 km
Basin Area (Sq.km)	85,220.39
Number of Named Rivers	757
Length of Named Rivers (km)	14022.77 km

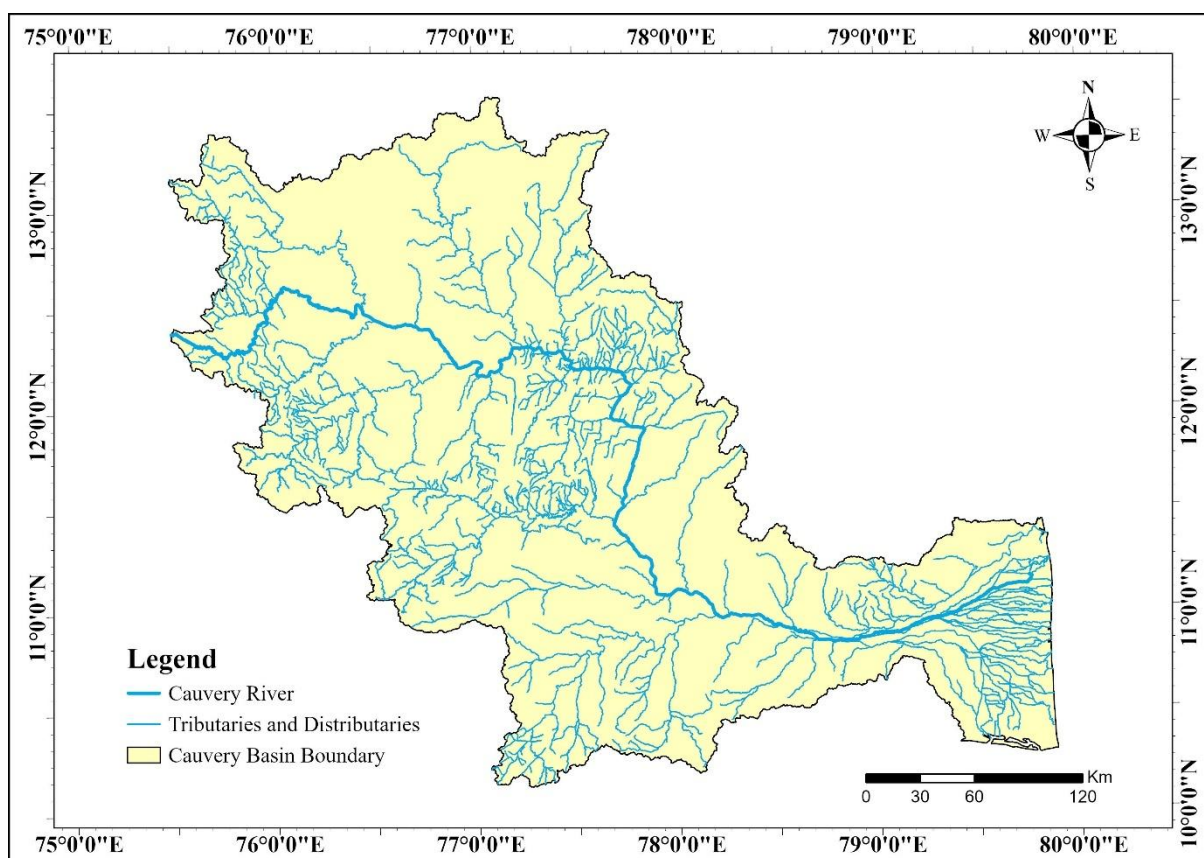
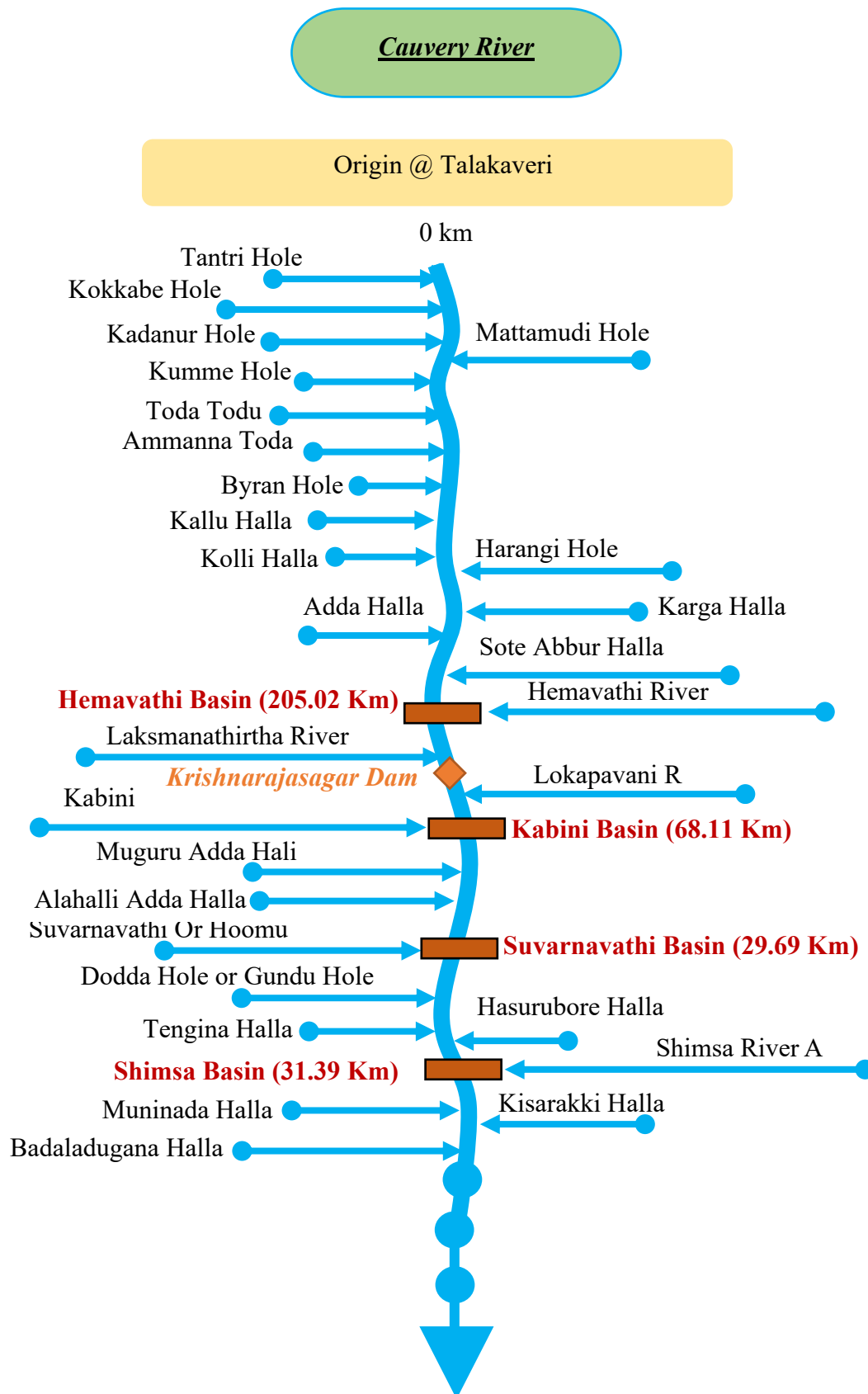
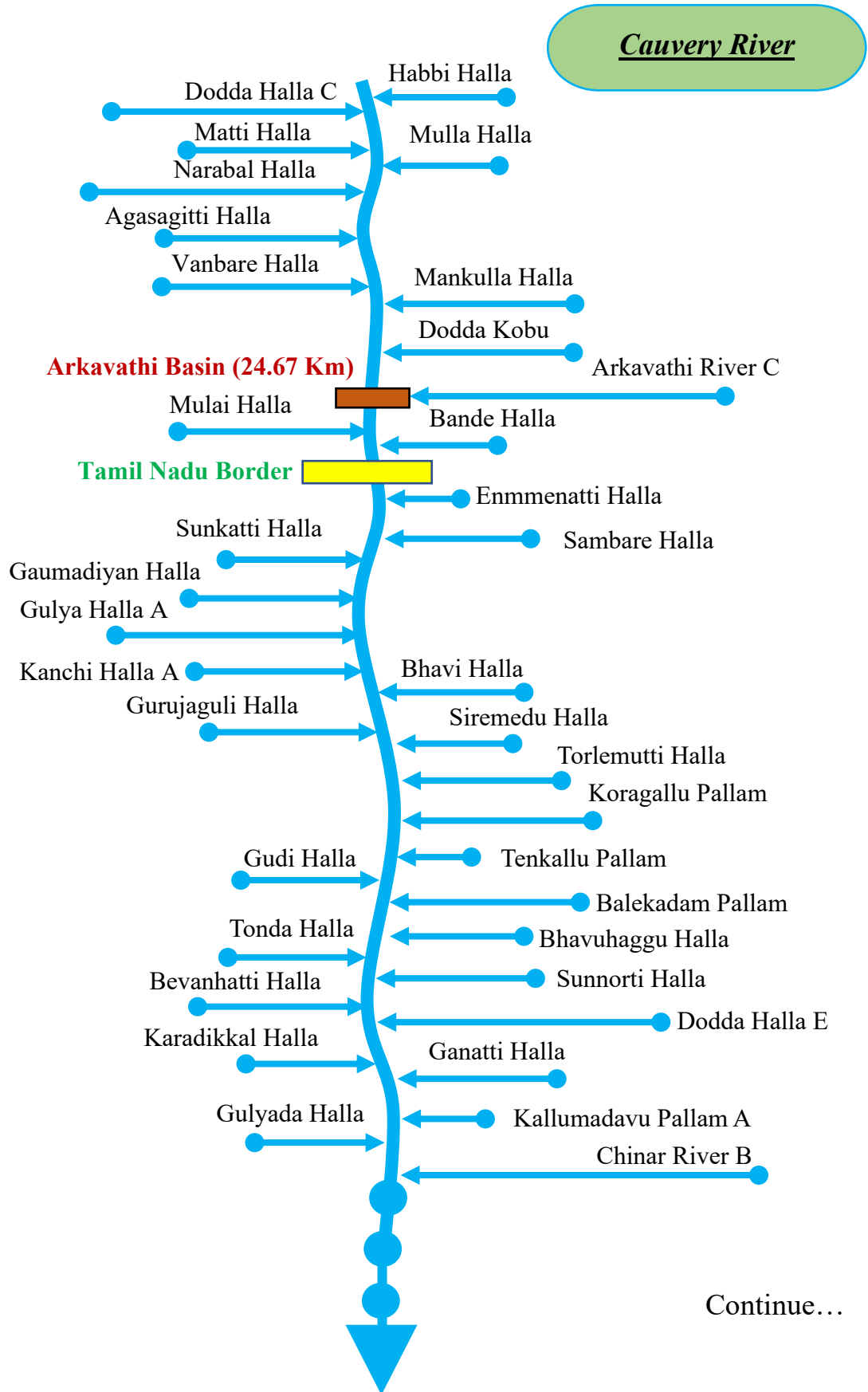


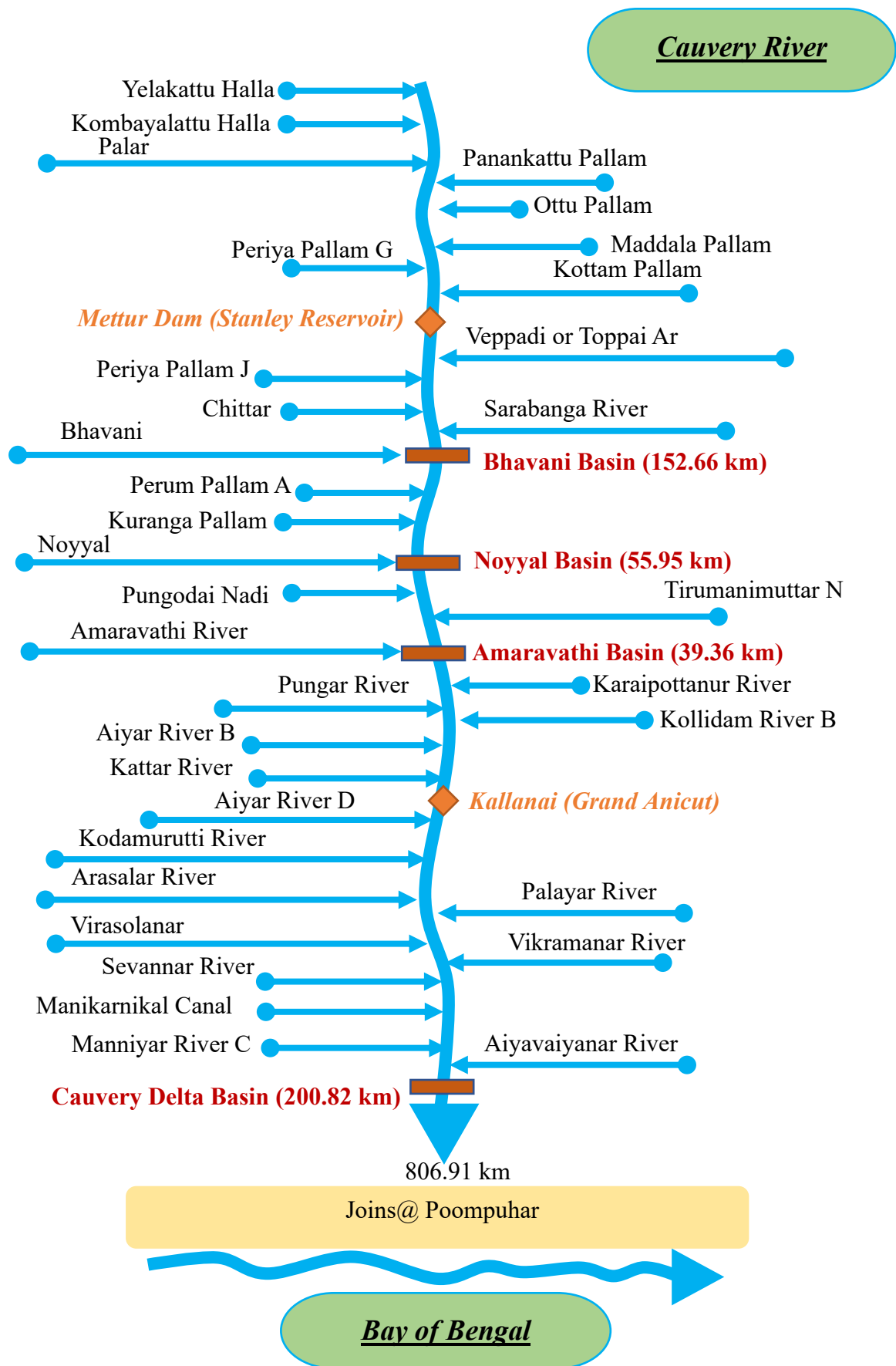
Fig. 15. CRB Network

14.1. CAUVERY RIVER MAIN STEM FLOW DIAGRAM



Continue...





The list of major Sub-basins are listed in Fig 16. The major Sub-basins are Hemavathi, Shimsha, Kabini, Suvarnavathi, Arkavathi, Bhavani, Noyyal, Amaravathi, and Cauvery Delta.

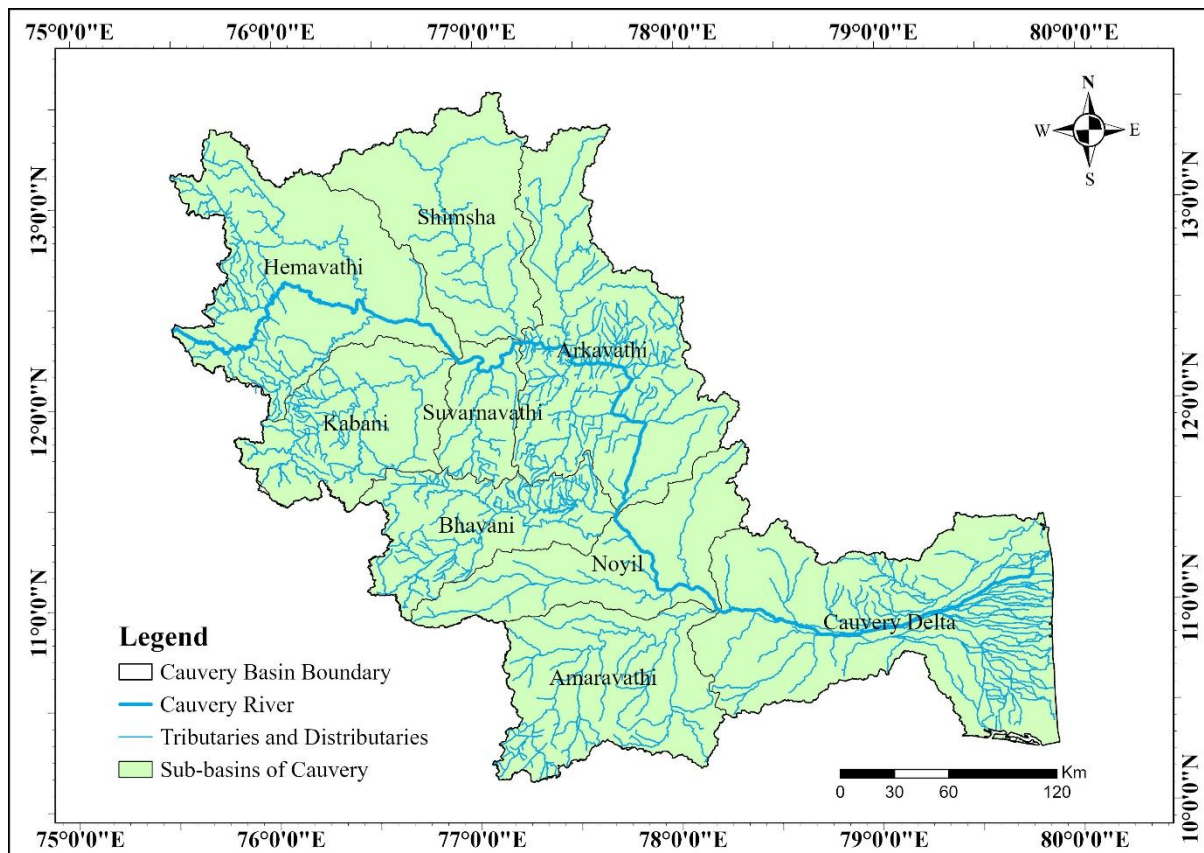


Fig. 16. Details of Cauvery Sub-basins

15. CRB SUB-BASIN NETWORK

15.1 AMARAVATHI RIVER NETWORK

The River Network of the Amaravathi Sub-basin is shown in Fig. 17. The details pertaining to the Amaravathi Sub-basin river network are given below in Table 10.

Table 10. Details of the Amaravathi Sub-basin

Amaravathi River UID Code	05TN569F59000102
River Length	195.132 km
Basin Area (Sq.km)	9018.5
Number of Named Rivers	75
Length of Named Rivers	1408.178 km

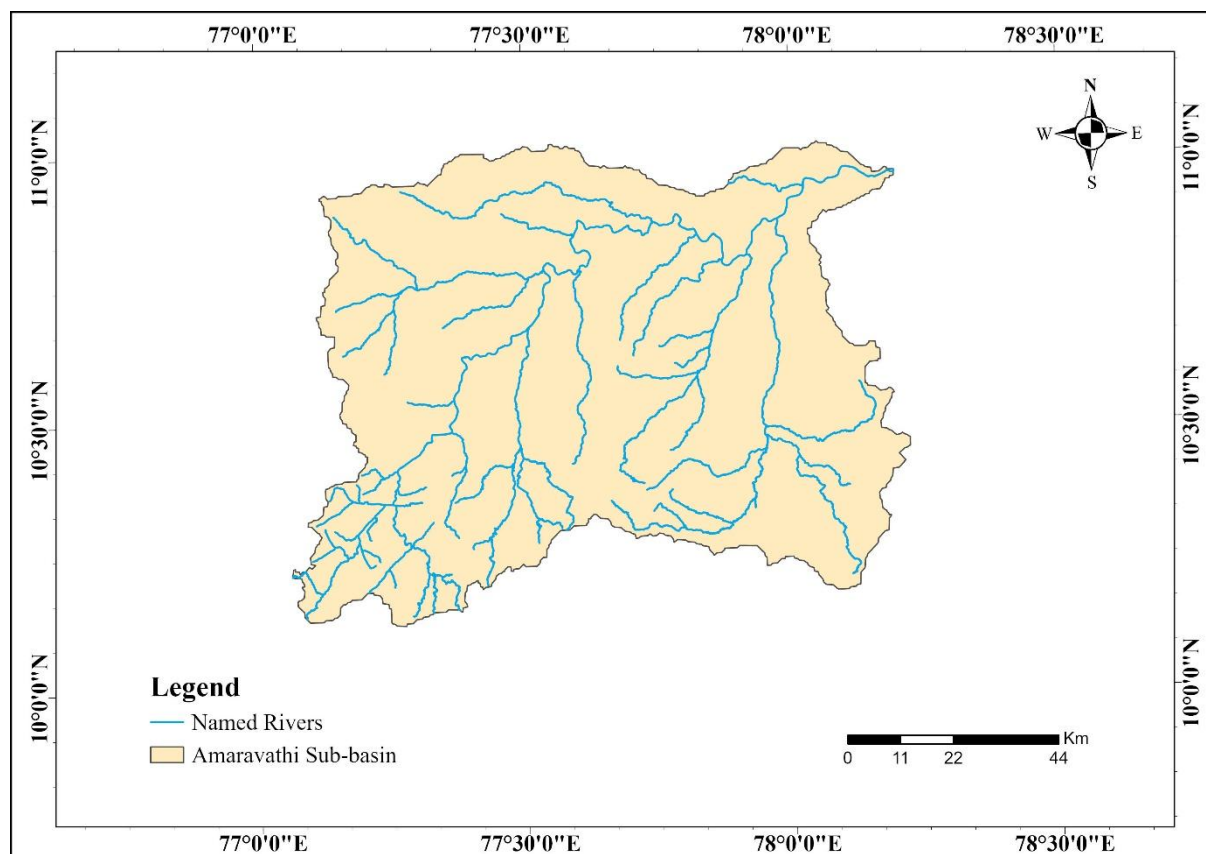
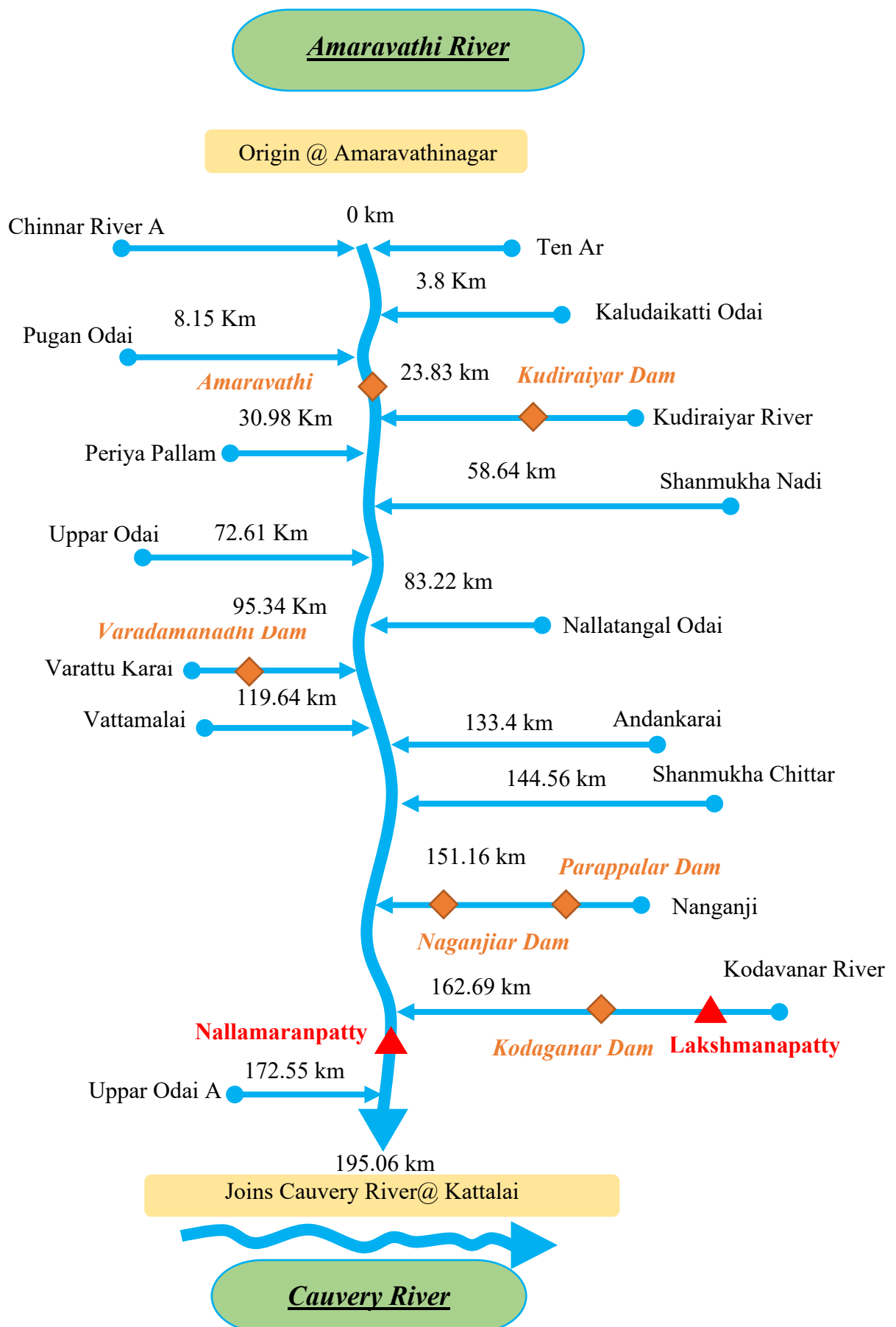


Fig. 17. Amaravathi River Network

15.1.1 AMARAVATHI RIVER MAIN STEM FLOW DIAGRAM



15.2 ARKAVATHI RIVER NETWORK

The River Network of the Arkavathi Sub-basin is shown in Fig. 18. The details pertaining to the Arkavathi Sub-basin river network are given below in Table 11.

Table 11. Details of the Arkavathi Sub-basin

Arkavathi River UID Code	05KA631R62593001
River Length	170.097 km
Basin Area (Sq.km)	13851.5
Number of Named Rivers	216
Length of Named Rivers	2803.71 km

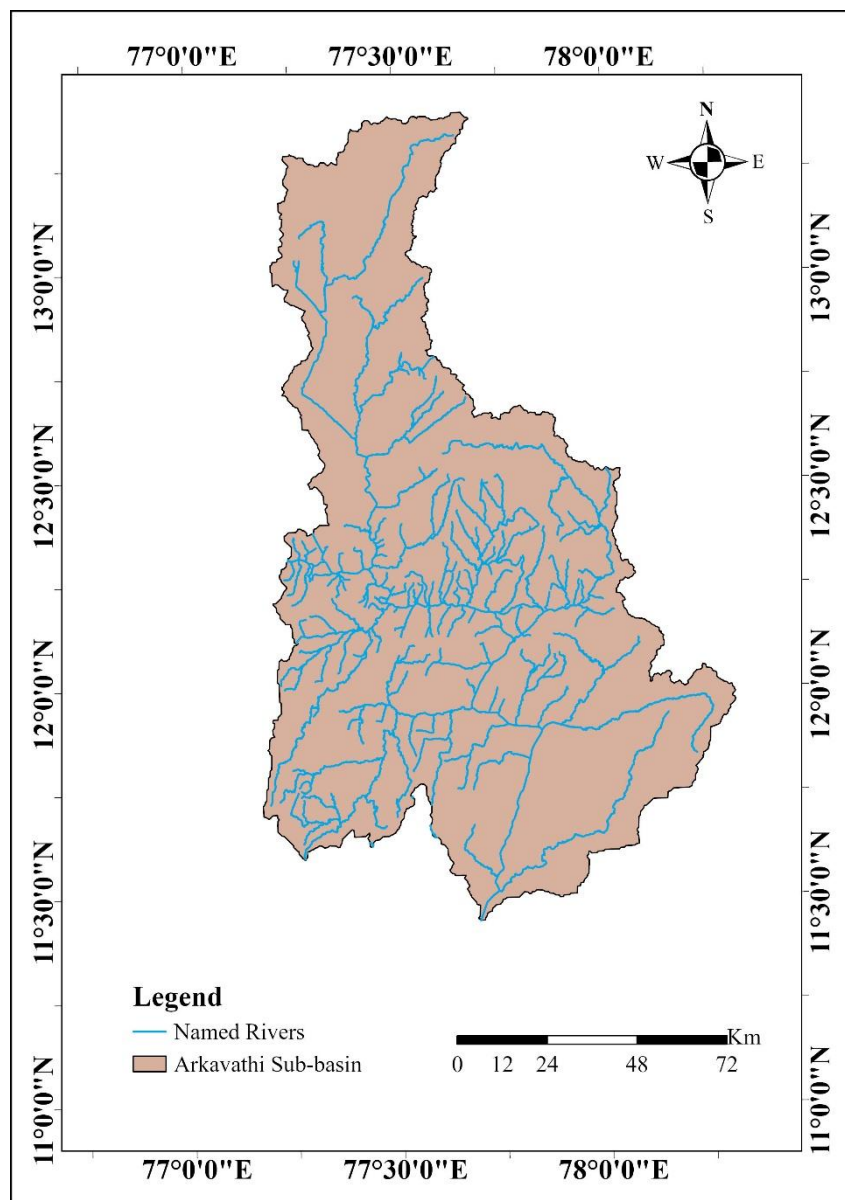
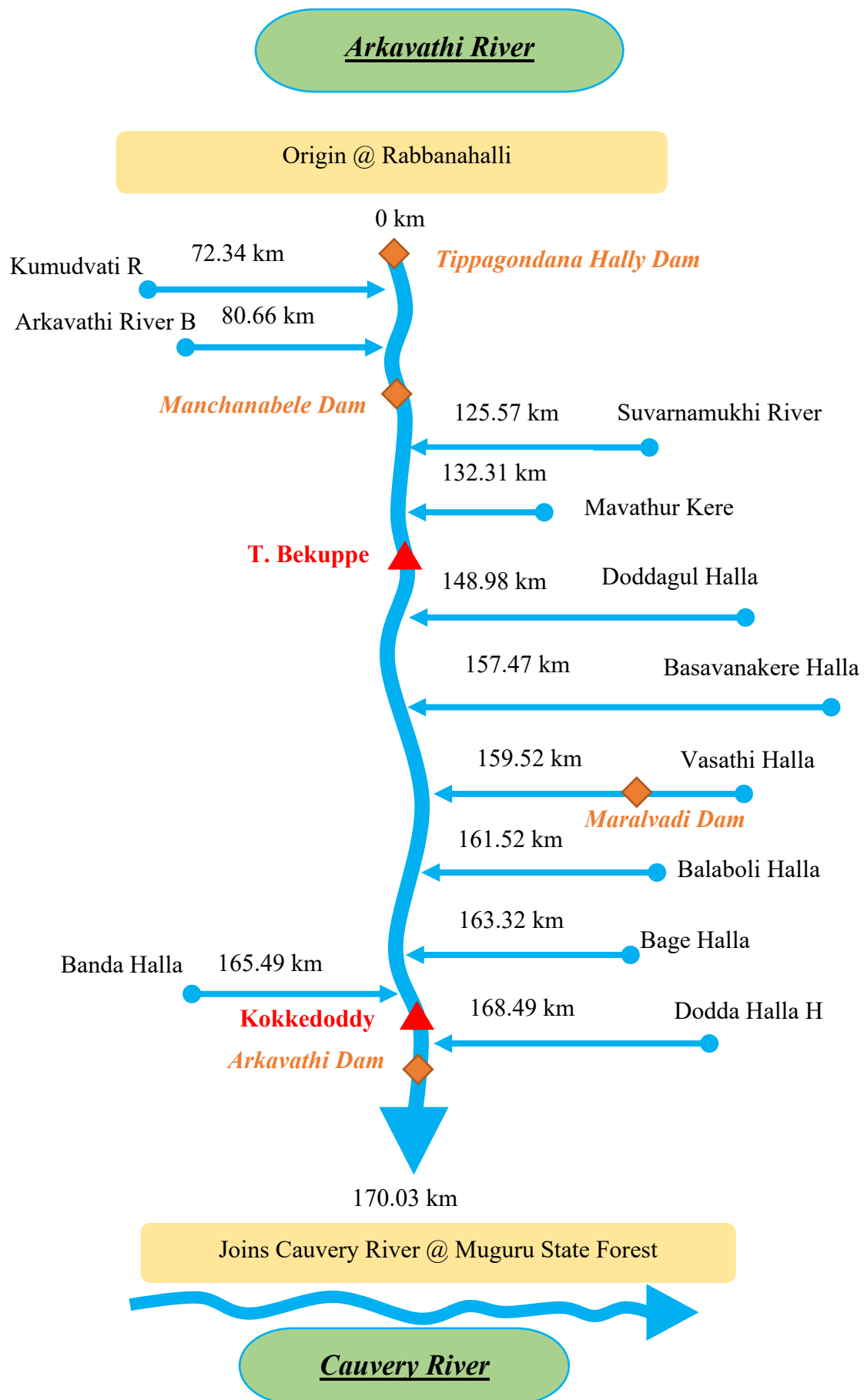


Fig 18. Arkavathi River Network

15.2.1 ARKAVATHI RIVER MAIN STEM FLOW DIAGRAM



15.3 BHAVANI RIVER NETWORK

The River Network of the Bhavani Sub-basin is shown in Fig. 19. The details pertaining to the Bhavani Sub-basin river network are given below in Table 12.

Table 12. Details of the Bhavani Sub-basin

Bhavani River UID Code	05TN587R63511804
River Length	227.77 km
Basin Area (Sq.km)	6454.3
Number of Named Rivers	118
Length of Named Rivers	1583.64 km

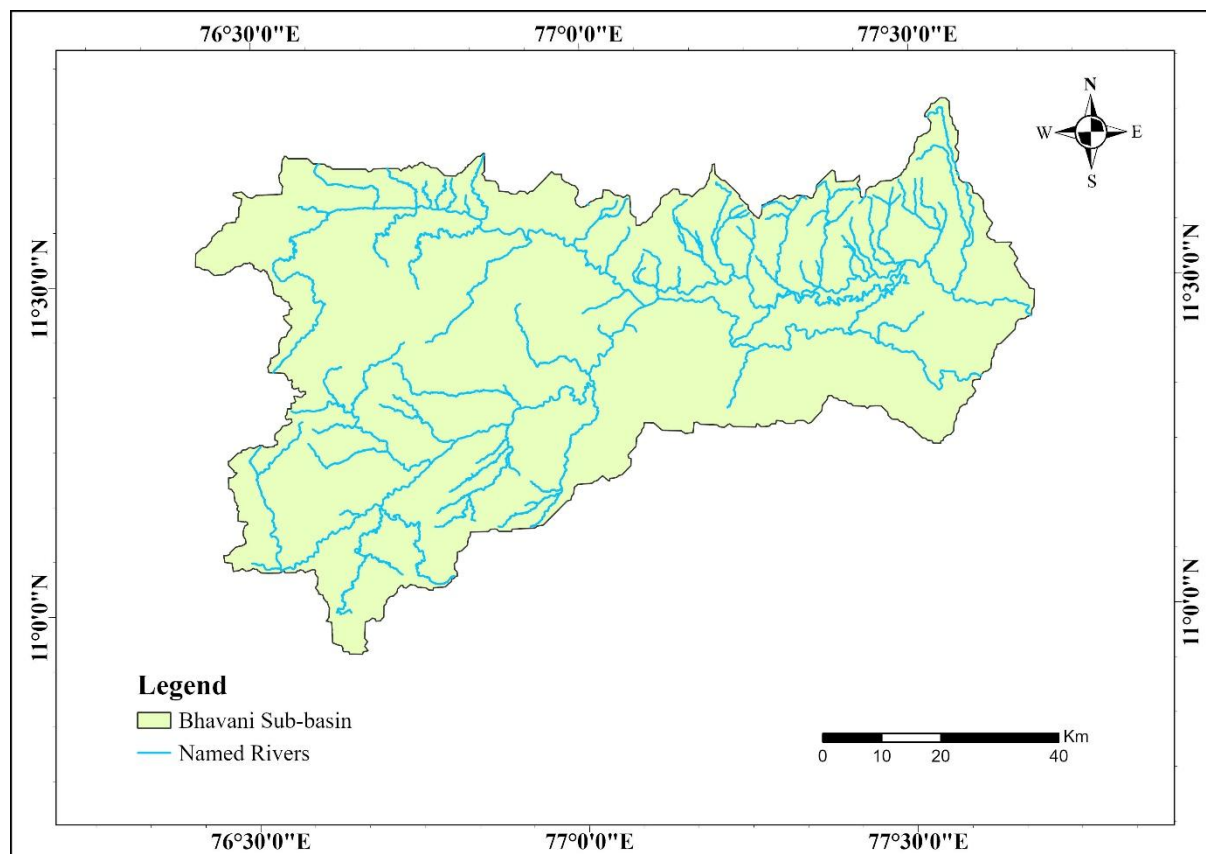
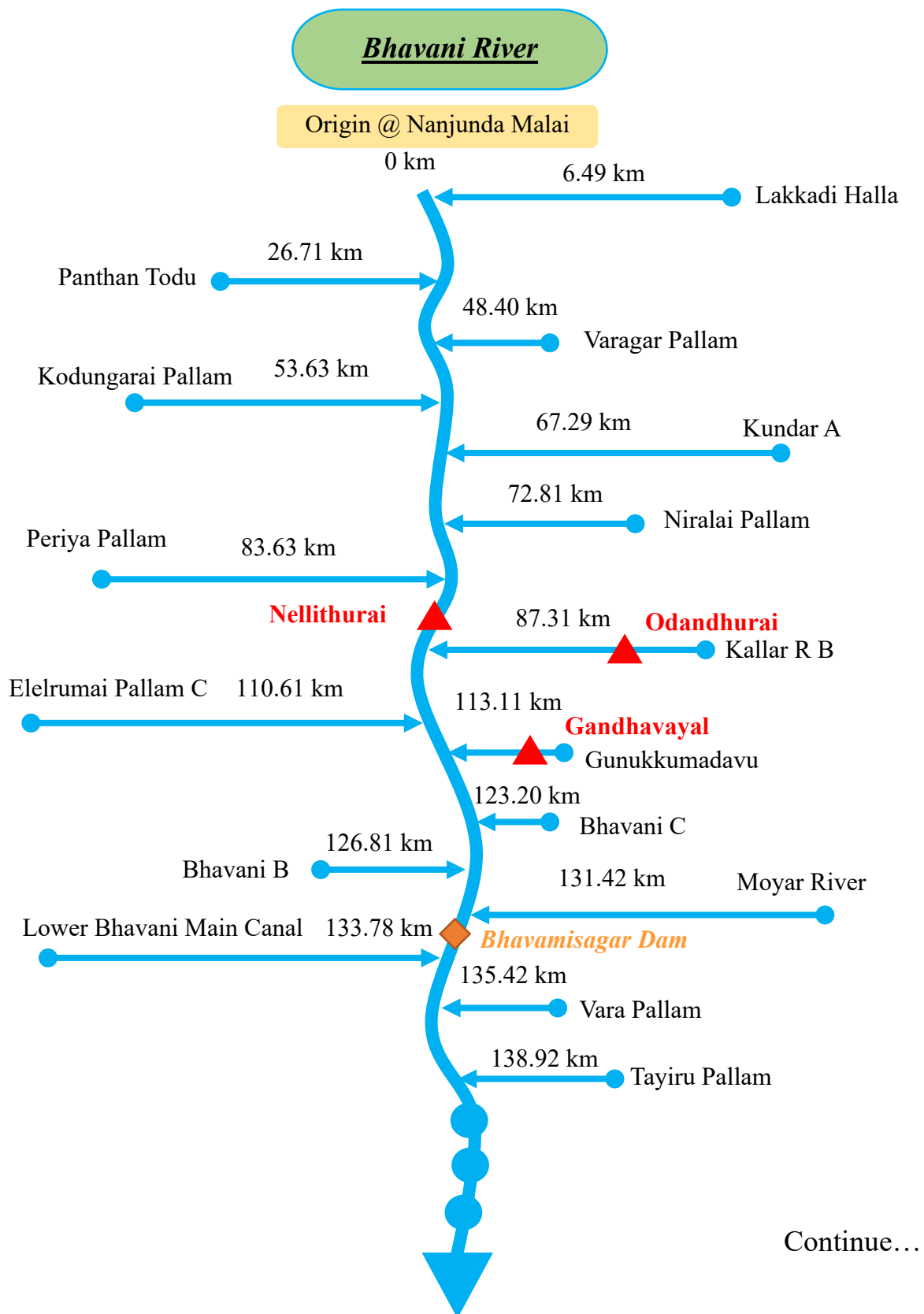
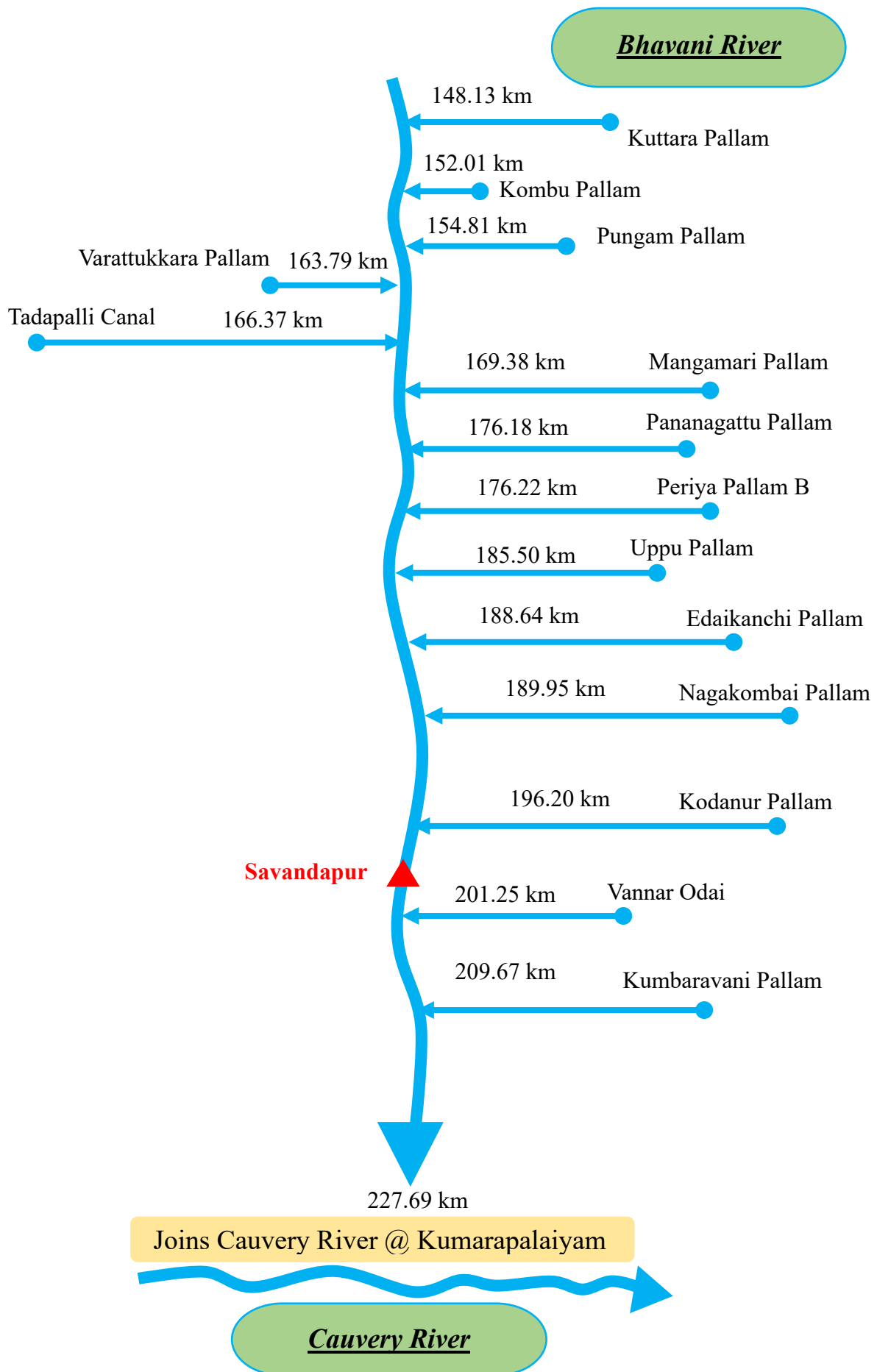


Fig 19. Bhavani River Network

15.3.1 BHAVANI RIVER MAIN STEM FLOW DIAGRAM





15.4 CAUVERY DELTA RIVER NETWORK

The River Network of the Cauvery Delta Sub-basin is shown in the Fig. 20. The details pertaining to the Cauvery Delta Sub-basin river network are given below in Table 13.

Table 13. Details of the Cauvery Delta Sub-basin

Cauvery Delta UID Code	05KA541R61779401
River Length	201.43 km
Basin Area (Sq.km)	17036.47
Number of Named Rivers	124
Length of Named Rivers	3420.9 km

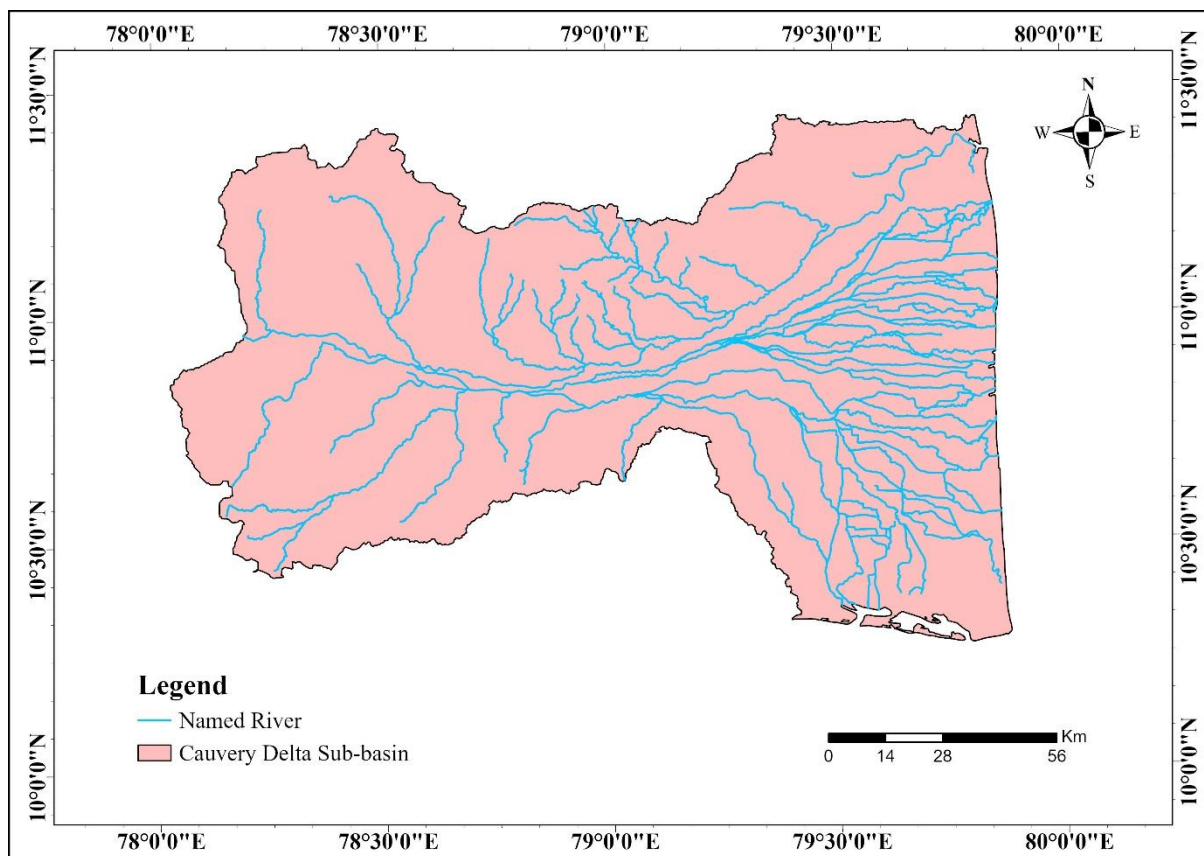
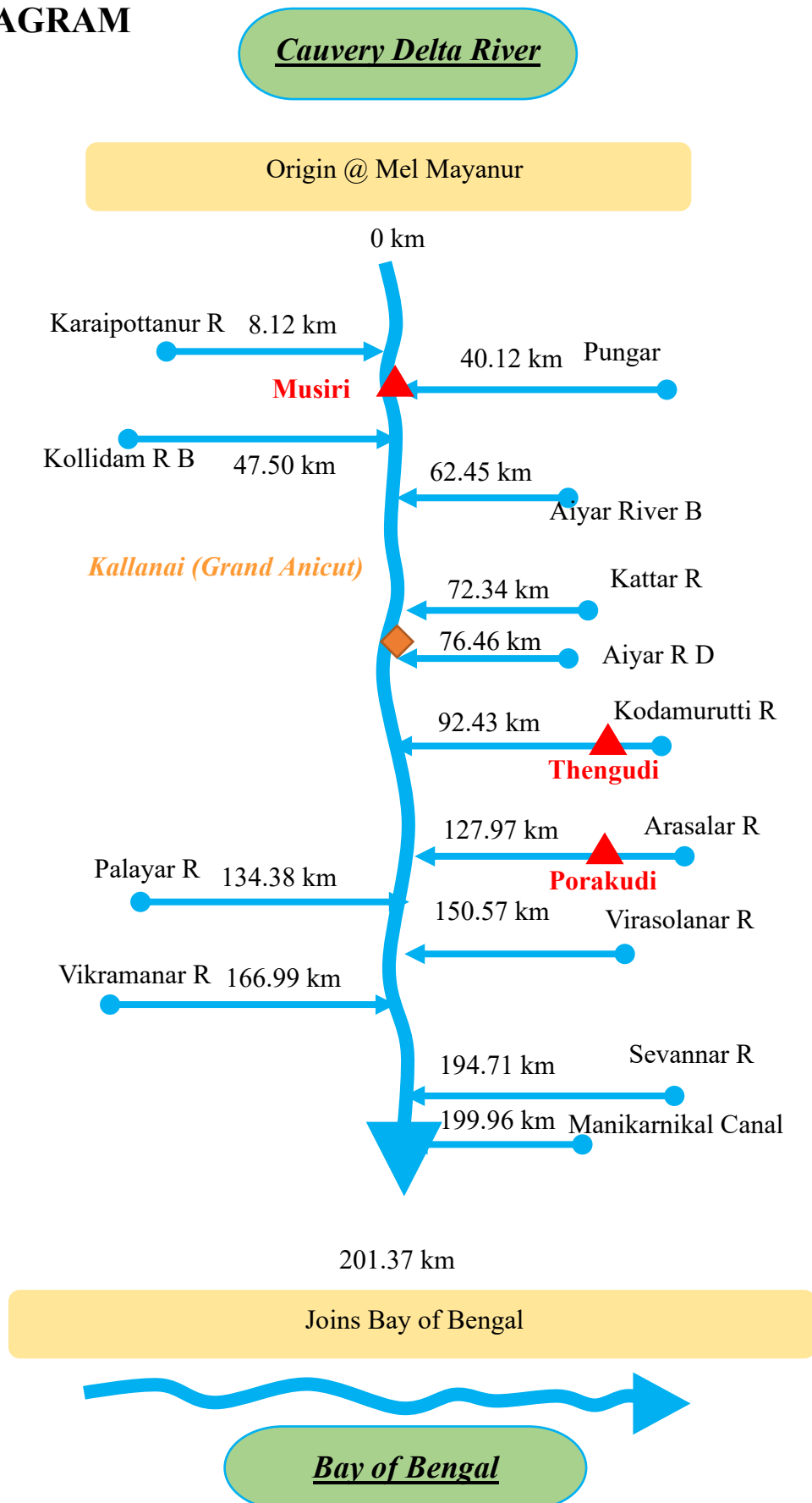


Fig 20. Cauvery Delta River Network

15.4.1 CAUVERY DELTA RIVER MAIN STEM FLOW DIAGRAM



15.5 HEMAVATHI RIVER NETWORK

The River Network of Hemavathi Sub-basin is shown in the Fig. 21. The details pertaining to the Hemavathi Sub-basin river network are given below in Table 14.

Table 14. Details of the Hemavathi Sub-basin

Hemavathi River UID Code	05KA532R60992401
River Length	232.14 km
Basin Area (Sq.km)	12132.2
Number of Named Rivers	90
Length of Named Rivers	1832.72 km

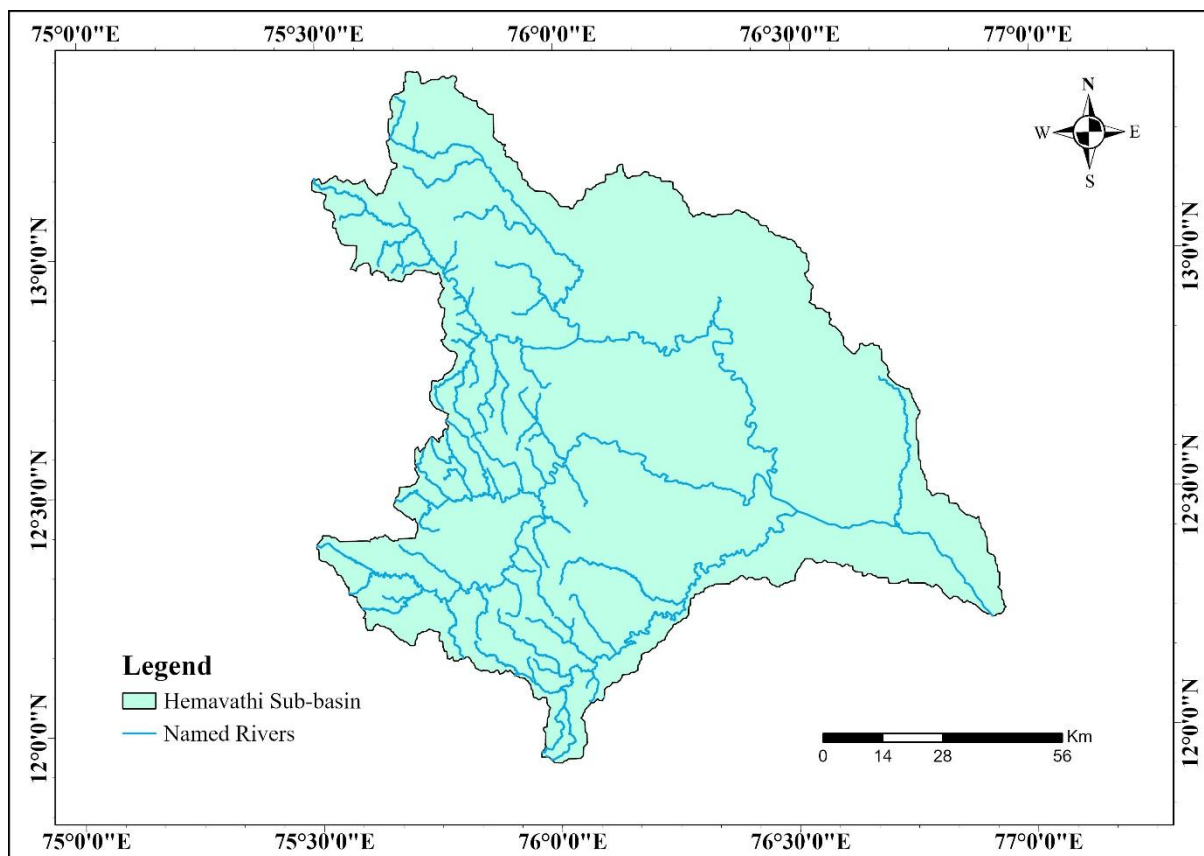
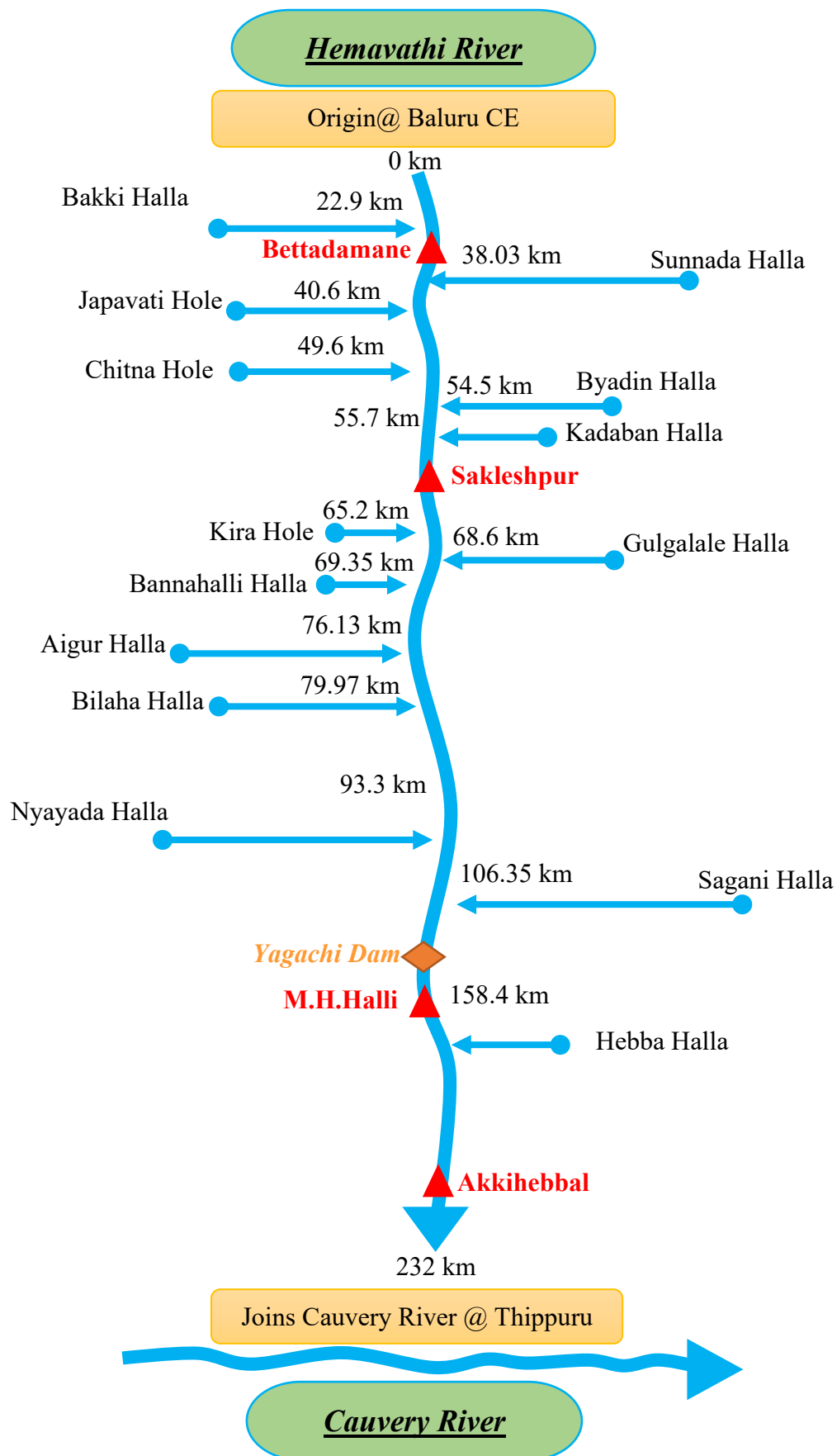


Fig 21. Hemavathi River Network

15.5.1 HEMAVATHI RIVER MAIN STEM FLOW DIAGRAM



15.6 KABINI RIVER NETWORK

The River Network of Kabini Sub-basin is shown in the Fig. 22. The details pertaining to the Kabini Sub-basin river network are given below in Table 15.

Table 15. Details of the Kabini Sub-basin

Kabini River UID Code	05KL567R62730401
River Length	172.4 km
Basin Area (Sq.km)	7037.6
Number of Named Rivers	86
Length of Named Rivers	1245.5 km

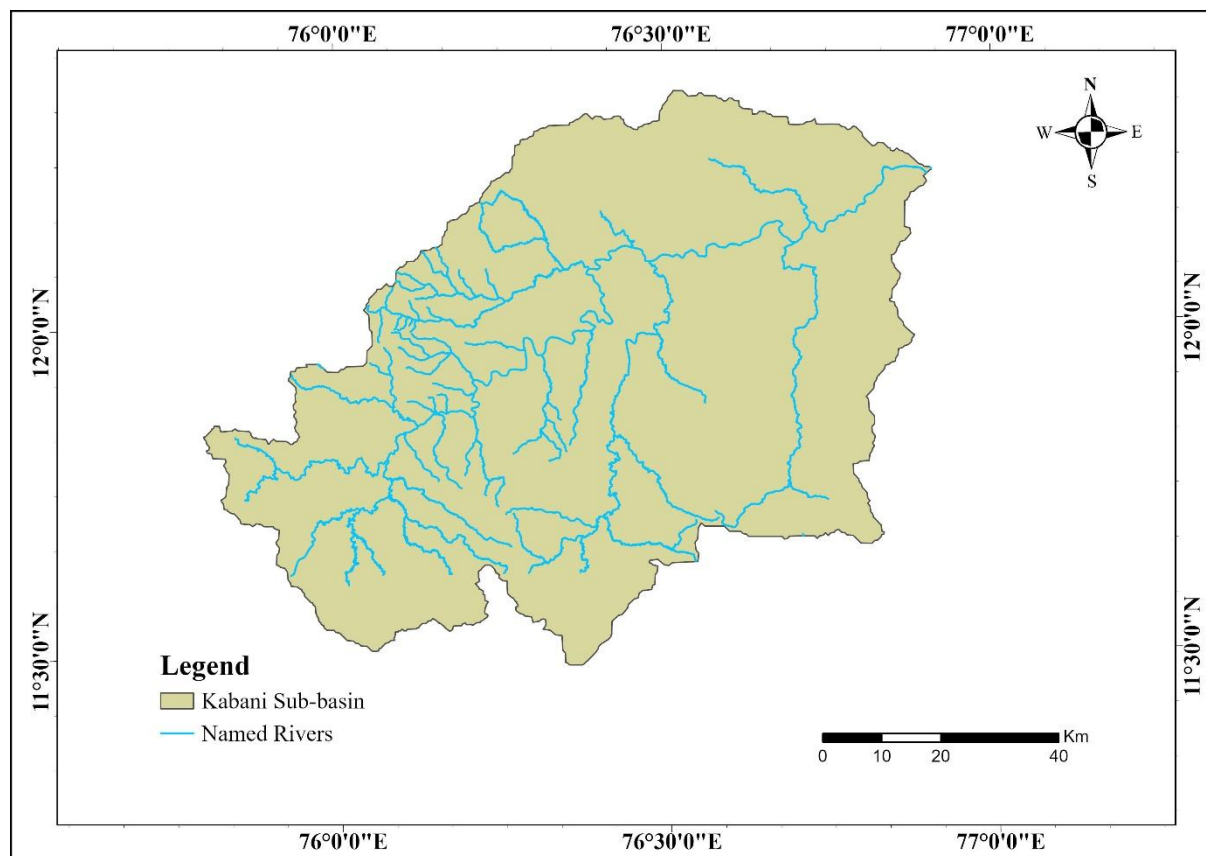
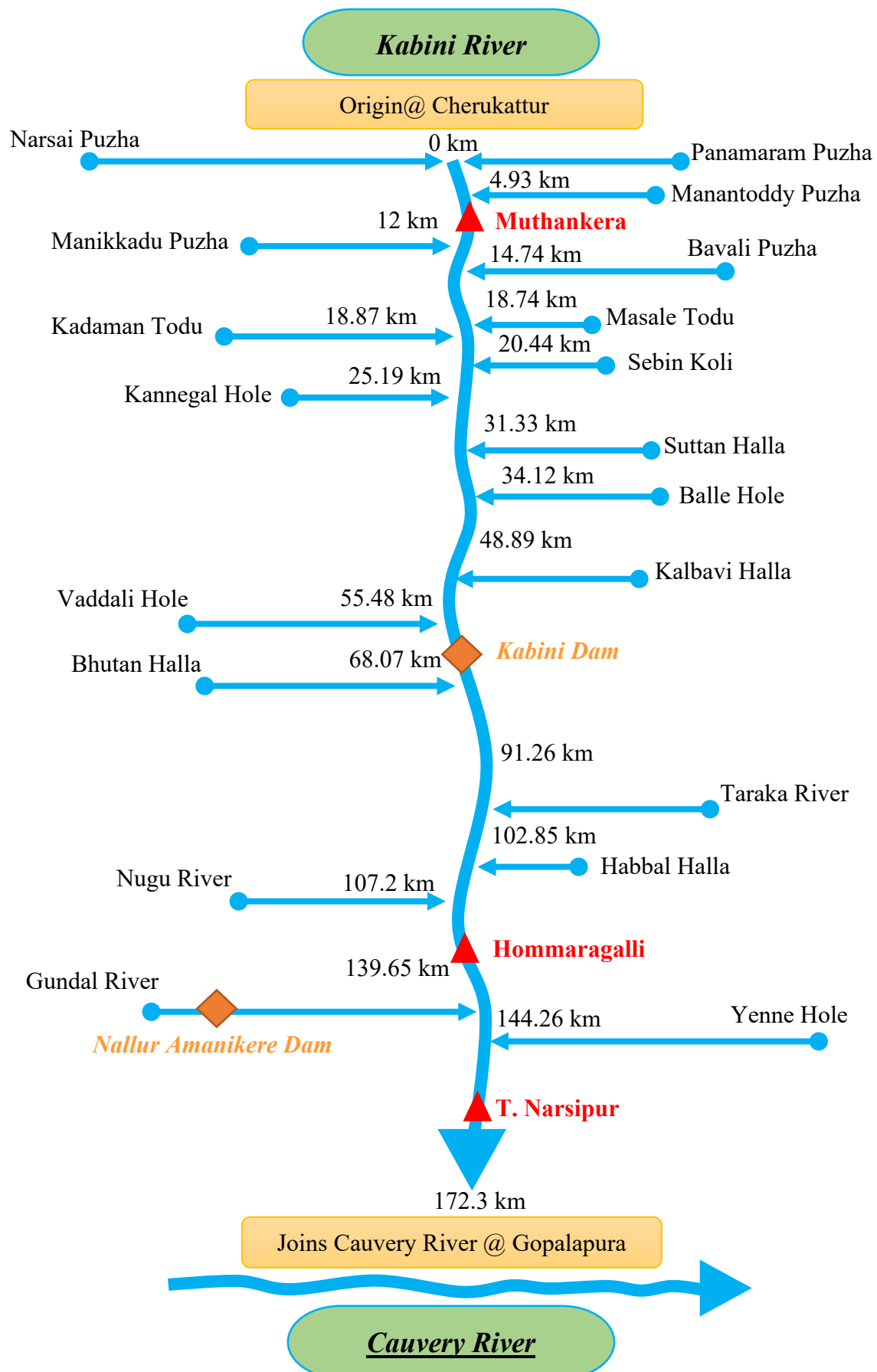


Fig 22. Kabini River Network

15.6.1 KABINI RIVER MAIN STEM FLOW DIAGRAM



15.7 NOYYAL RIVER NETWORK

The River Network of Noyyal Sub-basin is shown in the Fig. 23. The details pertaining to the Noyyal Sub-basin river network are given below in Table 16.

Table 16. Details of the Noyyal Sub-basin

Noyyal River UID Code	05TN569F59570102
River Length	182.137 km
Basin Area (Sq.km)	7618.63
Number of Named Rivers	19
Length of Named Rivers	615.87 km

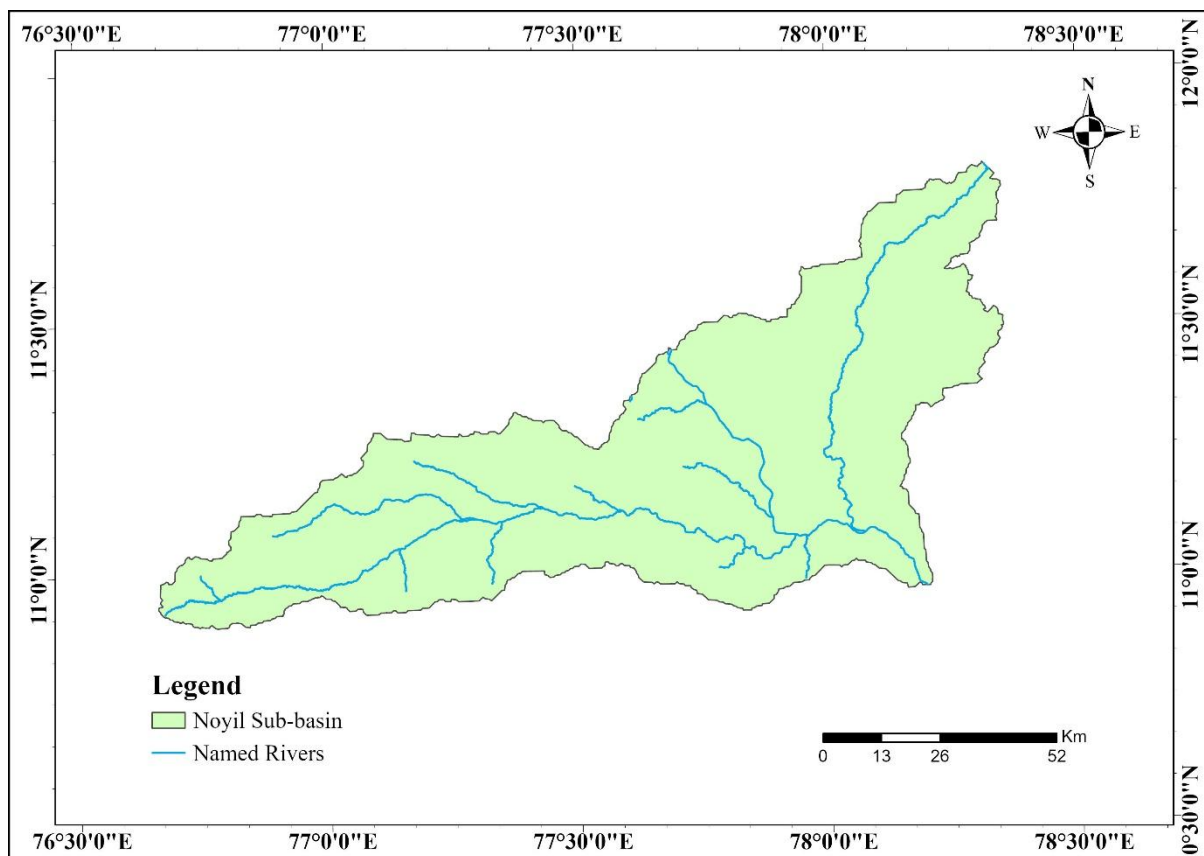
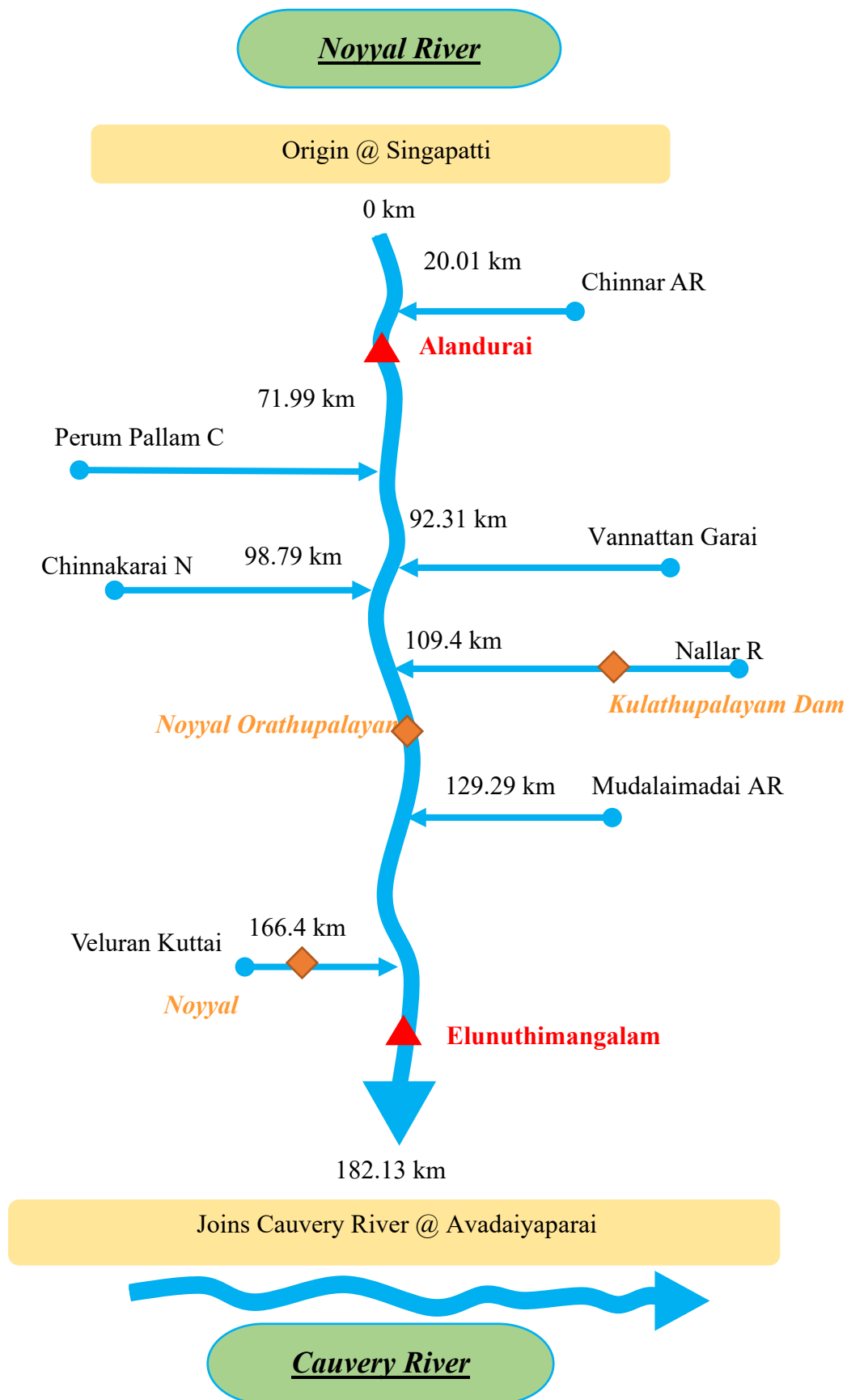


Fig 23. Noyyal River Network

15.7.1 NOYYAL RIVER MAIN STEM FLOW DIAGRAM



15.8 SHIMSHA RIVER NETWORK

The River Network of Shimsha Sub-basin is shown in the Fig. 24. The details pertaining to the Shimsha Sub-basin river network are given below in Table 17.

Table 17. Shimsha Sub-basin details

Shimsha River UID Code	05KA548R61202801
River Length	194.83 km
Basin Area (Sq.km)	8676.4
Number of Named Rivers	22
Length of Named Rivers	630.135 km

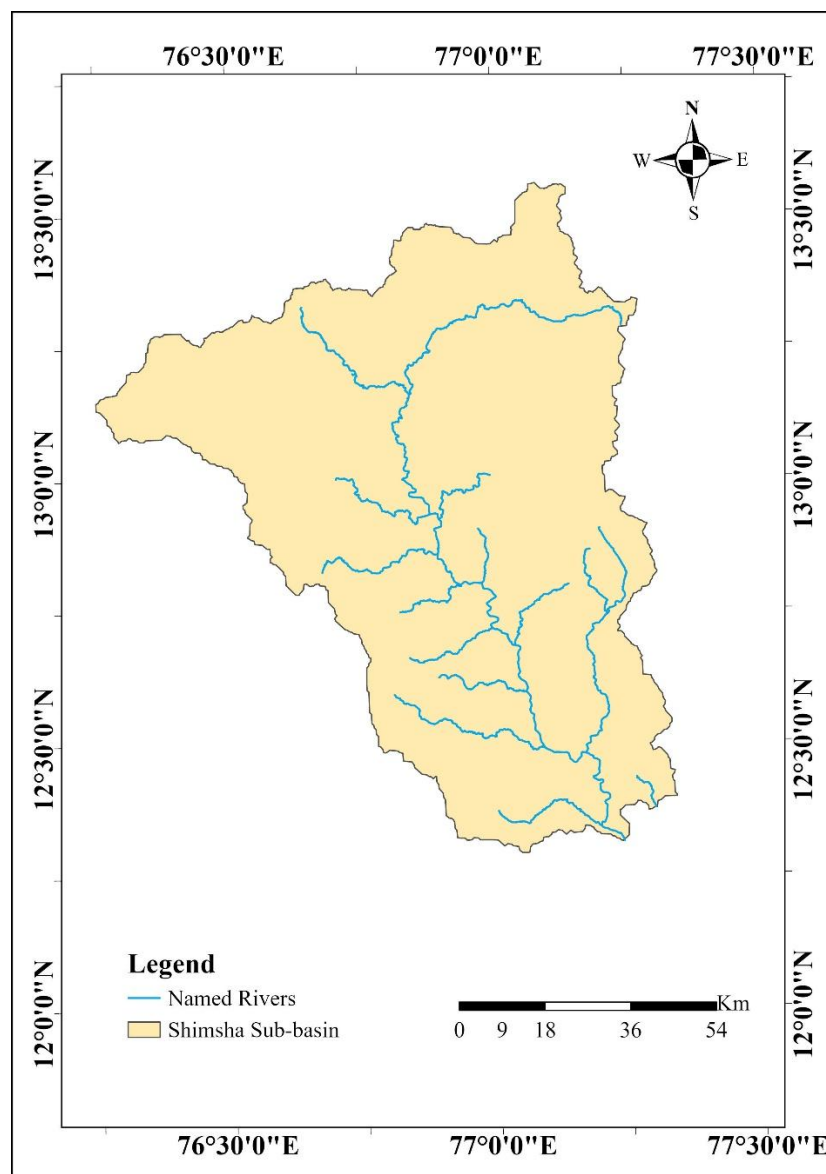
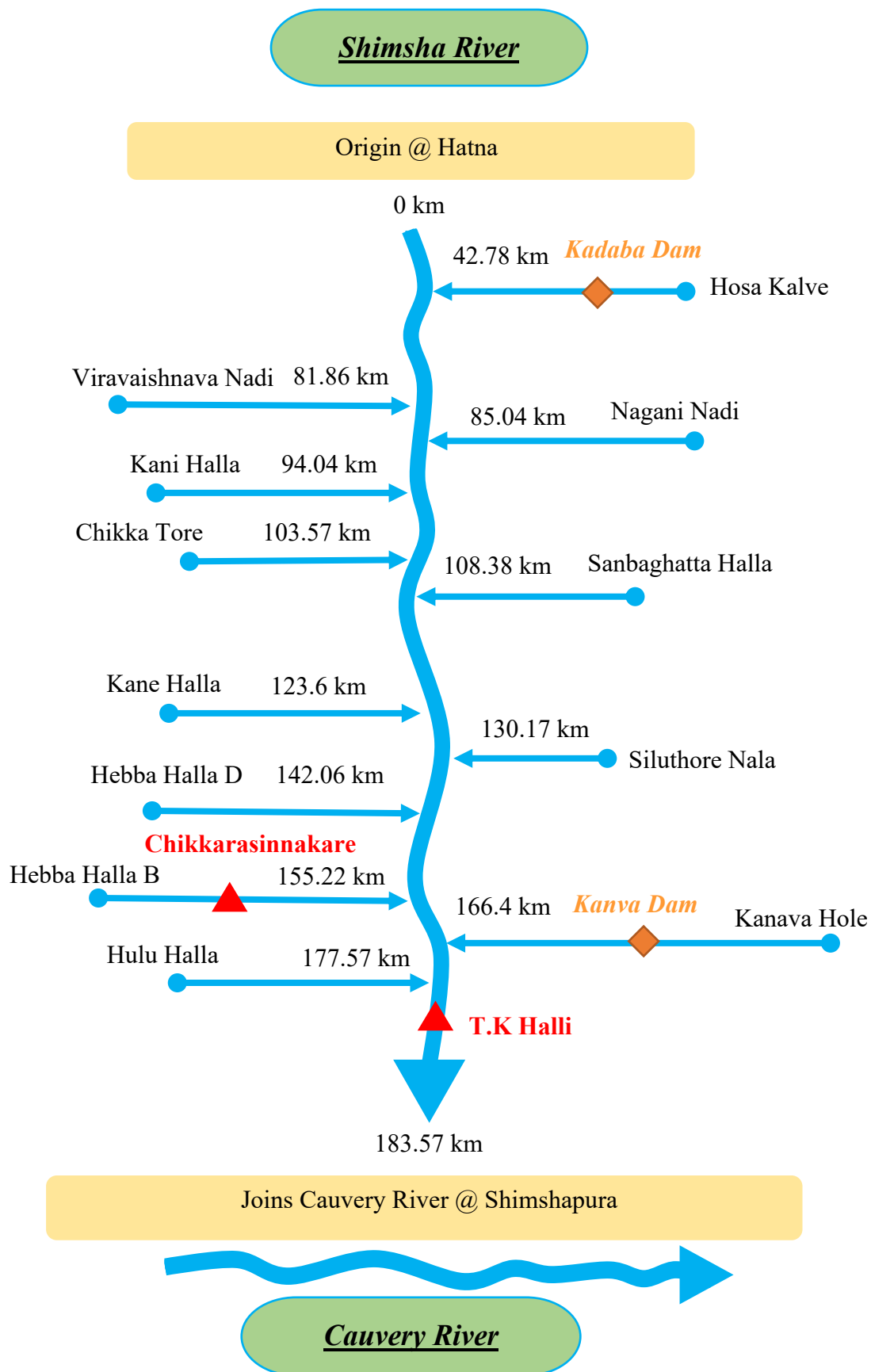


Fig 24. Shimsha River Network

15.8.1 SHIMSHA RIVER MAIN STEM FLOW DIAGRAM



15.9 SUVARNAVATHI RIVER NETWORK

The River Network of the Suvarnavathi Sub-basin is shown in Fig. 25. The details pertaining to the Hemavathi Sub-basin river network are given below in Table 18.

Table 18. Details of the Suvarnavathi Sub-basin

Suvarnavathi River UID Code	05TN573R63483703
River Length	81.09 km
Basin Area (Sq.km)	2952
Number of Named Rivers	29
Length of Named Rivers	473.57 km

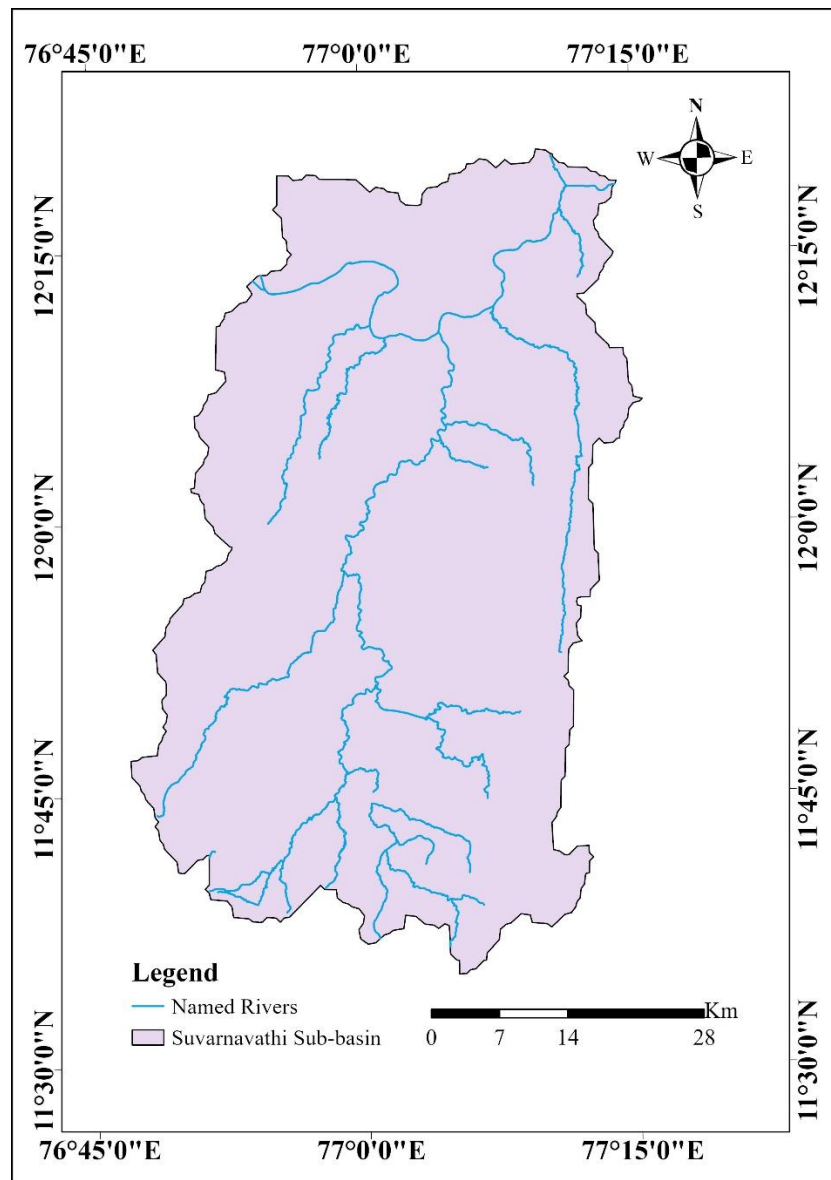
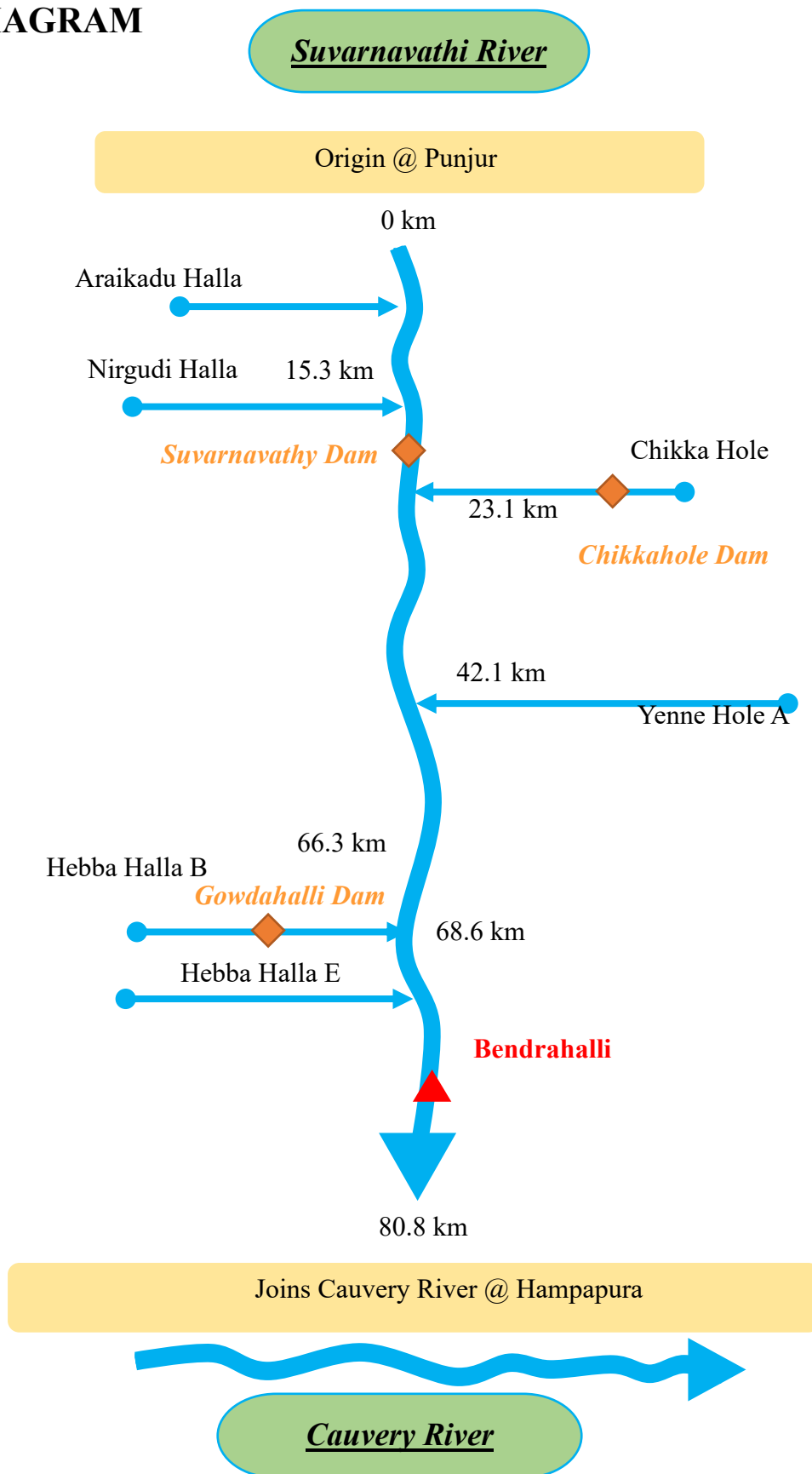


Fig 25. Suvarnavathi River Network

15.9.1 SUVARNAVATHI RIVER MAIN STEM FLOW DIAGRAM



16. CONCLUSION

The report highlights that CRB is the pulse of South India, deeply embedded in the cultural identity, livelihoods, and history of millions. For centuries, it has been revered as a goddess, Dakshin Ganga and a source of prosperity, sustaining agriculture and nurturing rich civilisations. It is a lifeline for the states of Karnataka, Tamil Nadu, Kerala, and the Union Territory of Puducherry. The CRB is divided into several Sub-basins, including Kabini, Hemavathi, Bhavani, Noyyal, Arkavathi, Shimsha, Suvarnavathi, Amaravathi, and the Cauvery Delta Sub-basins, each of which contributes in its own way to the hydrological and ecological balance of the river system. The CRB is shared by several significant hydrological stations that monitor flow characteristics, sediment loads, and rainfall patterns, which are vital for efficient water resource management. Large dams and reservoirs, such as the Krishna Raja Sagar (KRS) Dam, Mettur Dam, Harangi Dam, and Kabini Reservoir, are essential for irrigation, flood control, and power generation in the basin. These dams effectively transform the river into a highly managed utility. Sustainable management of the river and its Sub-basins remains crucial to ensure equitable and long-term access to its resources for future generations. Ultimately, the CRB is an irreplaceable natural asset whose future viability rests not just on effective engineering and resource management, but on the successful implementation of a cooperative and scientific framework that balances the ecological health of the river with the essential needs of its four administrative stakeholders.

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