

Monitoring of Indian National Aquatic Resources
Series: MINARS/37 /2014-15

RIVER STRETCHES FOR RESTORATION OF WATER QUALITY



CENTRAL POLLUTION CONTROL BOARD
MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE
Website: www.cpcb.nic.in e-mail: cpcb@nic.in

FEBRUARY 2015



शशि शेखर, भा.प्र.से.
अध्यक्ष

SHASHI SHEKHAR, IAS
Chairman

केन्द्रीय प्रदूषण नियंत्रण बोर्ड

(भारत सरकार का संगठन)

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

Central Pollution Control Board

(A Govt. of India Organisation)

Ministry of Environment, Forest & Climate Change

Phone : 22304948 / 22307233

FOREWORD

The water quality management is one of the many environmental problems in India. Increasing demand of water for human consumption, irrigation and growing industrial activities has impacted the water quality of rivers due to declining flows in rivers and depleting water levels of subsurface resources. Water quality data on rivers is analysed to compare with water quality criteria. Biochemical Oxygen Demand (BOD) has been considered as principal parameters for identification of monitoring locations in exceedance to the criteria limit. The present study highlights the water quality issues in 275 rivers comprising of 302 Stretches in 27 States and 2 UTs. The water data indicates that organic pollution as indicated by Biochemical Oxygen Demand (BOD) continues to be the major water quality issues. This is mainly due to discharge of untreated domestic wastewater from the urban centres of the country. The municipal corporations at large are not able to treat increasing load of municipal sewage flowing into water bodies. Secondly the receiving water bodies also do not have adequate water for dilution.

The contribution of Ms. Alpana Narula (JSA), Ms. Suniti Parashar (SSA), Ms. Deepty Goyal (SA-1) and Ms. Nupur Tandon (SA-1) in compilation of data and preparation of this Report is appreciable. The project study is coordinated by Shri R.M. Bhardwaj, Scientist 'D' under the supervision and guidance of Dr. A.B. Akolkar, Member Secretary. The co-operation extended by State Pollution Control Boards, Pollution Control Committees and Zonal Offices of Central Pollution Control Board in this endeavor is gratefully acknowledged.

Hopefully, this Report will be useful to all concerned with water quality management and its restoration to pristine purity.


(Shashi Shekhar)

February, 2015

CONTRIBUTIONS

Supervision and Co-ordination : Dr. A. B. Akolkar, Member Secretary
Mr. R.M. Bhardwaj, Scientist 'D'

Report Preparation : Ms. Alpana Narula, Junior Scientific Assistant
Ms. Suniti Parashar, Senior Scientific Assistant

Graphics and sequencing : Ms. Nupur Tandon, Scientific Assistant
Ms. Deepty Goyal, Scientific Assistant

Editing and Printing : Ms. Chanchal Arora, Personal Secretary

CONTENTS

CHAPTER	TOPIC	PAGE NO.
	SUMMARY AT A GLANCE	I - III
I	WATER QUALITY MONITORING IN INDIA	1-6
1.1	National Water Quality Monitoring Programme	1
1.2	Objectives of Water Quality Monitoring	1
1.3	Monitoring Network, Parameters and Frequency	1-5
1.4	Concept of Water Quality Management in India	6
II	CRITERIA AND PRIORITY OF POLLUTED RIVER STRETCHES	7-9
2.1	Identification of polluted river stretches	7
2.2	Criteria for prioritization	7
2.3	Number of stretches- priority-wise	8-9
III	STATUS OF POLLUTED RIVER STRETCHES	10-36
3.1	Polluted River Stretches –At a Glance	10
3.2	Polluted River Stretches in Andhra Pradesh	11
3.3	Polluted River Stretches in Assam	11-13
3.4	Polluted River Stretches in Bihar	13
3.5	Polluted River Stretches in Chhattisgarh	14
3.6	Polluted River Stretches in Daman and Diu	14
3.7	Polluted River Stretches in Delhi	15
3.8	Polluted River Stretches in Goa	15
3.9	Polluted River Stretches in Gujarat	16-17
3.10	Polluted River Stretches in Haryana	17
3.11	Polluted River Stretches in Himachal Pradesh	17-18
3.12	Polluted River Stretches in Jammu and Kashmir	18-19
3.13	Polluted River Stretches in Jharkhand	19
3.14	Polluted River Stretches in Karnataka	20-21
3.15	Polluted River Stretches in Kerala	21-22
3.16	Polluted River Stretches in Madhya Pradesh	22-23
3.17	Polluted River Stretches in Maharashtra	23-26
3.18	Polluted River Stretches in Manipur	26-27
3.19	Polluted River Stretches in Meghalaya	27-28
3.20	Polluted River Stretches in Nagaland	28
3.21	Polluted River Stretches in Orissa	28-29
3.22	Polluted River Stretches in Punjab	29-30
3.23	Polluted River Stretches in Rajasthan	30
3.24	Polluted River Stretches in Sikkim	31
3.25	Polluted River Stretches in Tamil Nadu	31-32
3.26	Polluted River Stretches in Telangana	32-33
3.27	Polluted River Stretches in Tripura	33
3.28	Polluted River Stretches in Uttar Pradesh	33-34
3.29	Polluted River Stretches in Uttarakhand	34-35

3.30	Polluted River Stretches in West Bengal	35-36
IV	CAUSITIVE FACTOR FOR POLLUTION OF RIVERS	37-39
4.1	Availability of Water Resources	37
4.2	Water Pollution	38
4.2.1	Domestic Water Pollution	38-39
4.2.2	Industrial Water Pollution	39
4.2.3	Agricultural Water Pollution	39
Annexure I	STATE-WISE POLLUTED RIVER STRETCHES AND PRIORITY CLASSES	40-58
Annexure II	STATE-WISE POLLUTED RIVER STRETCHES-DIGITAL MAPS	59-118
Annexure III	LIST OF POLLUTED RIVERS	119-120

SUMMARY AT A GLANCE

- CPCB is monitoring 445 rivers in 29 States and 6 Union Territories in the country.
- There are 302 polluted river stretches on 275 rivers.

PRIORITY WISE POLLUTED RIVER STRETCHES

- Among the 302 polluted river stretches – 34 are in Priority Class – I, 17 in Priority Class – II, 36 in Priority Class – III, 57 in Priority Class – IV and 158 are in Priority Class – V.
- The State-wise number of stretches in descending order are – Maharashtra (49), Assam (28), Madhya Pradesh (21), Gujarat (20), West Bengal (17), Karnataka (15), Kerala (13), Uttar Pradesh (13), Manipur (12), Orissa (12), Meghalaya (10), Jammu & Kashmir (9), Goa (8), Himachal Pradesh (8), Jharkhand (8), Rajasthan (8), Tamil Nadu (7), Telangana (7), Andhra Pradesh (6), Bihar (5), Chhattisgarh (5), Sikkim (5), Uttarakhand (5), Nagaland (3), Haryana (2), Punjab (2), Tripura (2), Daman & Diu (1) and Delhi (1).

STATE-WISE POLLUTED RIVER STRETCHES

- The State-wise details of polluted rivers and category of priority classes are appended.

Andhra Pradesh - Godavari, Hundari, Krishna, Tungabhadra, Pennar and Kundu falling in priority class – V based on the level of BOD.

Assam - Mora Bharali, Barak, Beki, Bharalu, Bhogdoi, Boginadi, Brahmaputra, Burhidihing, Deepar Bill, Dhansiri, Digboi, Disang, Jia Bharali, Jhanji, Kalong, Kapili, Kharsang, Kohora, Kundli, Kushiara, Manas, Pagadia, Panchnai, Ranga nadi, Sankosh, Sonai, Subansiri, Kathakal. These rivers are classified in three priority classes (Class I, IV and V).

Bihar - Ganga, Harbora, Manusmar, Ramrekha and Sirsia. The polluted rivers in Bihar are in 4 priority classes (Class-II, III, IV and V).

Chhattisgarh - Hasdeo, Kelo, Kharoon, Mahanadi and Seonath in priority class

V.Daman and Diu - Damanganga in Priority class – I

Delhi - Yamuna in Priority class – I

Goa - Mandovi, Assonora, Bicholim, Chapora, Khandepar, Mapusa, Sal and Valvant. These rivers are classified in **Priority Class** – III, IV and V based on the level of BOD.

Gujarat - Mahi, Narmada, Ambika, Amlakhadi, Anas, Baleshwar Khadi, Bhadar, Damanganga, Kaveri, Khari, Kim, Kolak, Mahi, Mindhola, Narmada, Panam, Bhogavo, Dhadar, Purna, Sabarmati, Shedi, Tapi and Triveni. These rivers are classified in four priority classes (Class I, III, IV and V).

Haryana - Ghaggar and Yamuna. The polluted rivers in Haryana are in 2 priority classes (Class-II and IV).

Himachal Pradesh - Beas, Tons, Sirsa, Swan, Sukhana, Suketi khad, Markanda and Binwa falling in priority class I, IV and V based on the level of BOD.

Jammu and Kashmir - Banganga, Basanter, Chenab, Chunt Kol, Dewak, Gawkadal, Jhelam, Liddar Nalah and Tawi. These rivers are classified in two priority classes (Class IV and V).

Jharkhand - Bokaro, Damodar, Jumar, Karo, Koel, North Koel, Sankh and Subarnrekha. The polluted rivers in Jharkhand are in 2 priority classes (Class- IV and V).

Karnataka - Arkavathi, Bhadra, Bhima, Cauvery, Ghatprabha, Kabini, Kagina, Kali, Krishna, Lakshmantirtha, Malprabha, Manjira, Shimsha, Tungabhadra and Tunga. These rivers are classified in priority class IV and V based on the level of BOD.

Kerala - Chitrapuzha, Kadambayar, Kallai, Karamana, Keecheri, Kuppam, Manimala, Neeleswaram, Periyar, Pullur, Puzhckal, Thirur and Uppala. These rivers are classified in three priority classes (Class – I, IV and V).

Madhya Pradesh - Banjar, Betwa, Bichia, Chambal, Chillar, Denwa, Gohad, Gour, Jammer, Kalisot, Khan, Kolar, Kshipra, Kunda, Malei, Narmada, Parvati, Shivna, Tapi, Tons and Wainganga. The polluted rivers in Madhya Pradesh are in 5 priority classes (Class- I, II, III, IV and V).

Maharashtra - Wena, Wainganga, Godavari, Bhima, Krishna, Ulhas, Kundalika, Tapi, Girna, Panchganga, Nira, Bhatsa, Rangavali, Chandrabhaga, Vashishti, Mithi, Kanhan, Koyna, Amba, Amravati, Bindusara, Darna, Ghod, Gomai, Hiwara, Indrayani, Kan, Manjra, Mor, Morna, Mula, Mula- Mutha, Mutha, Panzara, Patalganga, Pawna, Pedhi, Pehlar, Penganga, Purna, Savitri, Sina, Surya, Urmodi, Vel, Vaitrana, Venna, Waghur and Wardha. These rivers are classified in priority class I, II, III, IV and V based on the level of BOD.

Manipur - Barak, imphal, Iril, Khuga, Khujairok, Lokchao, Maha, Manipur, Nambul, Sekmai, Thoubal and Wangjing. These rivers are classified in priority class II, III, IV and V based on the level of BOD.

Meghalaya- Bugi, Kynshi, Kyrhukhla, Lukha, Myndtu, Nonbah, Umkhrah, Umshyrpi, Umtrew and Wahbei. These rivers are classified in four priority classes (Class – I, III, IV and V).

Nagaland - Chathe, Dhansiri and Dzu. These rivers are classified in priority class II and IV based on the level of BOD.

Orissa - Brahmani, Budhalbhanga, Daya, Kathjodi, Koel, Kuakhai, Mahanadi, Nagavali, Rushikulya, Serua and Vanasdhara. The polluted rivers in Orissa are in 4 priority classes (Class- II, III, IV and V).

Punjab - Ghaggar and Satluj in two priority classes (Class – I and II).

Rajasthan - Banas, Chambal, Chappi, Ghaggar, kali sindh, Parvati, Jawai and Ujad. These rivers are classified in priority class I, II, III and V based on the level of BOD.

Sikkim - Dikchu, Maney Khola, Rangit, Ranichu, Teesta. The polluted rivers in Sikkim are in priority class V.

Tamil Nadu - Bhawani, Tambirapani, Palar, Sarabanga, Thirumanimuthar and Vasista. The polluted rivers in Tamil Nadu are in 3 priority classes (Class- I, II and V).

Telangana - Godavari, Krishna, Manjeera, Musi, Nakkavagu, Sabari and Maner. These rivers are classified in three priority classes (Class – I, II and V).

Tripura - Gumti and Haora in priority Class – V.

Uttar Pradesh - Gomti, Hindon, Kalinadi, Ramganga, Rapti, Rihand, Sai, Saryu, Ganga, Yamuna and Kosi. These rivers are classified in four priority classes (Class – I, III, IV and V).

Uttarakhand - Suswa, Ganga, Dhela, Bhella and Kosi. The polluted rivers in Uttarakhand are in 2 priority classes (Class- I and V).

West Bengal - Barakar, Churni, Damodar, Dwarkeshwar, Dwarka, Ganga, Jalangi, Kalijani, Kanshi, Karola, Mahananda, Mathabhanga, Mayurkashi, Rupnarayan, Silabati, Teesta and Vindhyadhari. These rivers are classified in priority class III, IV and V based on the level of BOD.

- Estimated polluted riverine length of all the priority classes putting together is 12,363 Km.

URBAN CENTRES ALONG POLLUTED RIVER STRETCHES

- There are 650 towns along the 302 polluted river stretches identified on 275 rivers.
- The state-wise number of towns/cities in descending order are – Maharashtra (161), Assam (49), West Bengal (47), Gujarat (38), Madhya Pradesh (37), Uttar Pradesh (37), Karnataka (24), Kerala (22), Tamil Nadu (23), Orissa (20), Rajasthan (20), Jammu & Kashmir (18), Manipur (17), Telangana (18), Jharkhand (16), Himachal Pradesh (14), Chhattisgarh (12), Meghalaya (12), Sikkim (11), Goa (9), Andhra Pradesh (8), Bihar (8), Haryana (7), Uttarakhand (6), Nagaland (4), Tripura (4), Punjab (5), Daman & Diu (2), Delhi (1).
- Out of 46 metropolitan cities (Census 2011), 35 cities (Vijayawada, Patna, Raipur, Delhi, Ahmedabad, Surat, Vadodara, Srinagar, Dhanbad, Ranchi, Bangalore, Indore, Bhopal, Jabalpur, Mumbai, Pune, Nagpur, Thane, Pimpri-Chinchwad, Nashik, Kalyan-Dombivali, Vasai-Virar, Ludhiana, Kota, Hyderabad, Lucknow, Kanpur, Ghaziabad, Agra, Meerut, Varanasi, Allahabad, Kolkata, Howrah, Faridabad) are identified along the polluted river stretches.

CHAPTER I

WATER QUALITY MONITORING IN INDIA

1.1 National Water Quality Monitoring Programme

The Central Pollution Control Board (CPCB) has established a network of monitoring locations on aquatic resources across the country. The monitoring of water quality initiated during 1977-78 under Global Environmental Monitoring System (GEMS) and gradually increased the network to cover all the aquatic resources.

1.2 Objectives of Water Quality Monitoring

The preamble of Water (prevention and control of pollution) Act, 1974 stated that pollution control board both at States and Central level to restore and maintain the wholesomeness of water bodies in India. Water quality monitoring is therefore an imperative prerequisite in order to assess the extent of maintenance and restoration of water bodies. The water quality monitoring is performed with following main objectives in mind.

- Rational planning of pollution control strategies and their prioritization
- To assess nature and extent of pollution control needed in different water bodies or their part
- To evaluate effectiveness of pollution control measures already in existence
- To evaluate water quality trend over a period of time
- To assess assimilative capacity of a water body thereby reducing cost on pollution control
- To understand the environmental fate of different pollutants
- To assess the fitness of water for different uses

1.3 Monitoring Network, Parameters and Frequency

The present network operated under Global Environmental Monitoring System (GEMS) and Monitoring of Indian National Aquatic Resources System (MINARS) covers 445 Rivers having 1275 locations. State wise Distribution of Water Quality Monitoring Stations is summarized in Table 1. The names of 445 rivers in alphabetical order are presented in Table2. The water samples are analyzed in accordance to the notified protocol order. In the present report data on Biochemical Oxygen Demand (BOD) is incorporated for interpretation and drawing inferences based on primary water quality criteria.

Table-1: State wise Distribution of River Water Quality Monitoring Locations

State	Monitoring Locations on River
ANDHRA PRADESH	50
ARUNACHAL PRADESH	18
ASSAM	43
BIHAR	62
CHANDIGARH	3
CHHATISSGARH	29
DAMAN, DIU, DADRA AND NAGAR HAVELI	12
DELHI	5
GOA	28
GUJARAT	53
HARYANA	8
HIMACHAL PRADESH	58
JAMMU & KASHMIR	45
JHARKHAND	31
KARNATAKA	61
KERALA	73
MADHYA PRADESH	96

State	Monitoring Locations on River
MAHARASHTRA	156
MANIPUR	41
MEGHALAYA	40
MIZORAM	4
NAGALAND	16
ORISSA	64
PONDICHERRY	5
PUNJAB	38
RAJASTHAN	17
SIKKIM	14
TAMIL NADU	45
TELANGANA	90
TRIPURA	29
UTTAR PRADESH	64
UTTRAKHAND	28
WEST BENGAL	38

Table 2:List of Rivers (Alphabetical order) in the monitoring network

Name of the River	Name of the River	Name of the River	Name of the River	Name of the River
Achankoil	Borak	Dikhow	Jamuni	Khari
Ajay	Bori	Dikrong	Jawai	Kharkhala
Alakananda-Upper Ganga	Brahmani	Disang	Jhanji	Kharoon
Amba	Brahmaputra	Drass	Jhelum	Kharsang
Ambika	Budhabalanga	Dwarakeshwar	Jiri	Khowai
Amlakhadi	Bugi River	Dwarka	Johila	Khuga
Amravati (Tributary of Cauvery)	Burai	Dzu	Jumar	Khujairok
Amravati (Tributary of Tapi)	Burhi Gandak	Dzucha	Juri River	Kichha
Anas	Burhidihing	Dzudza	Kabini	Kim
Ancharakandi	Burigaon River	Dzuna	Kadalundy	Kinnersani
Arasalar	Cauvery	Farmer	Kadambayar	Kodra
Arkavati	Chakpi	Feni River	Kagina	Koel
Arpa	Chalakudy	Gai Nadi	Kali (Tributary of Hindon)West	Kohara
Ashwani	Chaliyar	Gandak	Kali Bein	Kolak
Asanora	Chambal	Ganga	Kali Nadi (Tributary of Ganga) East	Kolar (Tributary of Ganga)
Ayroor	Chamla	Ganol	Kali Sindh	Kolar (Tributary of Godavari)
Bagmati	Chandergiri	Gautami-godavari	Kaliasot	Kolong
Baitarni	Chandrabhaga	Gawkadal	Kali-Karnataka	Konar
Baleshwar Khadi	Chapora	Ghaggar	Kaljani	Korayar
Banas	Chathe	Ghataprabha	Kallada	Kosi (Tributary of Ramganga)
Bandi	Chenab	Ghod	Kallai	Kosi (Tributary of Ganga)
Banganga	Chhapi	Giri	Kalna	Koyna
Banjara	Chhota Tawa	Girna	Kamala	Krishna
Barak	Chillar	Godavari	Kalpathi Puzha	Kshipra
Barakar	Chitrapuzha	Gohad	Kalyani	Kuakhai
Basanter	Choupan	Gola	Kameng	Kumardhara
Baspa	Chuntkol	Gomai	Kan	Kunda
Batta	Churni	Gomti	Kanhan	Kundalika

Name of the River	Name of the River	Name of the River	Name of the River	Name of the River
Beas	Corapuzha	Gour	Kansi	Kundli
Beki	Coringa	Gumti	Kapili	Kundu
Bereng River	Daha	Haora	Karakavagu	Kuppum
Betwa	Damanganga	Harbora	Karingoda	Kusei
Bhadar	Damodar	Hasdeo	Karmana	Kushawati
Bhadra	Damring river	Hemavati	Karapuzha	Kushiara
Bhalla	Darna	Hindon	Kariyari	Kuttiyady
Bharalu	Daya	Hiwara	Karo	Kynshi River
Bharathapuzha	Deepar Bill	Hunder Tokpo	Karola	Largi
Bhawani	Denwa	Hundri	Karuvannur	Laxmantirtha
Bhima	Deo River	Ib	Kathajodi	Leh
Bhogavo	Devak	Imphal	Kathakal	Lidder River
Bhogdoi	Dhadar	Indravati	Katni	Lohit River
Bichia	Dhalai River	Indrayani	Kaveri	Lokchao
Bicholim	Dhansiri	Indus	Kavvai	Longai River
Bihar	Dhela	Irang	Keecheri	Lukha River
Bindusar	Dhous	Iril	Kelo	Luni
Binwa	Dibang River	Ithikkara	Kerandi	Madai
Birupa	Digboi	Jia Bharali	Khan	Maha
Boginadi	Dihing River	Jalangi	Khandepar	Mahanadi
Bokaro	Dickhu	Jammer	Kharasrota	Mahananda
Mahe	Myntang River	Poma River	Siang River	Triveni sangam
Mahi	Myntdu	Poonpun River	Sikrana	Tuirial
Malei	Nagavalli	Pullur	Silabati	Tunga
Malprabha	Nakkavagu	Purna (Tributary of Godavari)	Simrar River	Tungabhadra
Mamom	Nalkari	Purna (Tributary of Tapi)	Simsang	Ujad
Manas	Nambul	Puzhackal	Sina	Ujh
Manda (Dudhai) River	Namchik River	Ramapuram	Sindh (Indus)	Ulhas
Mandakini (M.P.)	Nandaur	Ramganga	Sindh (Ganga)	Ulhas-Bhatsa
Mandakini- Upper Ganga	Nao Dihing	Ramrekha	Sinquerim	Ulhas-Kalu
Mandovi	Narmada	Ranchu	Sirsia (Tributary of Ganga)	Umiam Mawphlang
Maner	Neelsvaram	Ranga	Sirsa (Tributary of Satluj)	Umkhen River

Name of the River	Name of the River	Name of the River	Name of the River	Name of the River
Maney	Netravati	Ranganadi	Ganga (M&M)	Umkhras River
Manimala	Neugal	Rangavali	Siuel	Umgot River
Manipur	Newaj River	Rangit	Sonai	Umshyrpi River
Maniyankode Puzha	Neyyar	Rapti	Sone	Umtrew
Manjara (Manjira)	Nira (Tributary of Godavari)	Ravi	Spiti	Uppala
Manjeswar	Nira (Tributary of Krishna)	Rihand	Subansiri	Urmodi
Manu River	Nonbah River	Rilang River	Subarnerekha	Vaitarna
Manusmar	Pabbar	Rupanarayan	Sukheti Khad	Valapattanam
Mapusa	Pachin River	Rushikulya	Sukna	Valvant
Markanda	Pagldia	Sabarmati	Suru River	Vamanpuram
Matha Bhanga	Palar	Sabri	Surya	Vamsadhara
Mayurakshi	Paleru	Sai	Suswa	Vansadhara
Meenachil	Pallickal	Sal	Swan	Varuna
Meethi	Pamba	Sankh (Tributary of Brahmani)	Talpona	Vashisti
Meswa	Panam	Sankh (Tributary of Ganga)	Tambiraparani	Vasista
Milak	Panchganga	Sankhani	Tansa	Vel
Mindhola	Panchnai	Sankosh	Tapi	Venna
Mogral	Panzara	Sano	Tawi	Vindiyadhari
Mor	Pariyar	Sarabanga	Teesta	Vishwamitri
Mora Bharali	Parvati (Tributary of Ganga)	Saryu-Ghaghra	Tel	Waghur
Morna	Parvati (Tributary of Beas)	Satluj	Thalassery	Wah Blei
Muchkundi	Patalganga	Savitri	Thirumanimuthar	Wainganga
Muhari River	Pawana	Sekmai	Thirur	Wangjing
Mula	Pedhi	Serua	Thoubal	Wardha
Mula-Mutha	Pehlar	Shedhi	Tiracol	Wena
Muneru	Penganga	Sheonath	Titur	Yagachi
Musi	Pennar	Shimsa	Tlawng	Yamuna
Mutha	Peruvamba	Shivna	Tons (Tributary of Ganga)	Yongo Riner
Muvattupuza	Pilkhar	Shriya	Tons (Tributary of Yamuna)	Zuari

1.4 Concept of Water Quality Management in India

The water quality management in India is performed under the provision of Water (Prevention and Control of Pollution) Act, 1974. The basic objective of this Act is to maintain and restore the wholesomeness of national aquatic resources by prevention and control of pollution. The Act does not define the level of wholesomeness to be maintained or restored in different water bodies of the country. The Central Pollution Control Board (CPCB) has tried to define the wholesomeness in terms of protection of human uses, and thus, taken human uses of water as base for identification of water quality objectives for different water bodies in the country.

It was considered ambitious to maintain or restore all natural water body at pristine level. Planning pollution control activities to attain such a goal is bound to be deterrent to developmental activities and cost prohibitive. Since the natural water bodies have got to be used for various competing as well as conflicting demands, the objective is aimed at restoring and/or maintaining natural water bodies or their parts to such a quality as needed for their best uses. Thus, a concept of “designated best use” (DBU) was developed. According to this concept, out of several uses a water body is put to, the use which demands highest quality of water is termed as “designated best use”, and accordingly the water body is designated. Primary water quality criteria for different uses have been identified.

The entire water resources of the country were classified according to their designated best uses and a “Water Use Map” was prepared. For identification of the water bodies or their parts where water quality is at variance with water quality criteria, it was felt important to measure water quality of that water body or its part. It would help in preparation of “Water Quality Map” of India. The idea was to superimpose “Water Quality Map” on “Water Use Map” to identify the water bodies or their parts, which are in need of improvement (restoration). Subsequently through a wide network of water quality monitoring, water quality data are acquired. A large number of water bodies were identified as polluted stretches for taking appropriate measures to restore their water quality. Today almost all policies and programmes on water quality management are based on this concept including the Ganga Action Plan and National River Action Plans.

CHAPTER-II

CRITERIA AND PRIORITY OF POLLUTED RIVER STRETCHES

2.1 Identification of polluted river stretches

The stretches of rivers not meeting with the criteria are identified as polluted stretches and categorized in five priority classes. As the level of BOD varies widely in River stretches the same are prioritized in five categories based on BOD concentration consistently exceeding to BOD levels >30 mg/l, BOD between 20&30 mg/l, BOD between 10&20mg/l, BOD between 6-10 mg/l and BOD between 3& 6 mg/l. The data obtained are analyzed statistically and compared with the water quality criteria with respect to BOD.

The water quality data for the years 2009-2012 is analyzed and monitoring locations exceeding the water quality criteria are identified as polluted locations with respect to risk. The degree of violation is with respect to water quality criteria for drinking water source with conventional treatment with respect to BOD. The polluted locations in a continuous sequence are defined as polluted river stretches.

2.2 Criteria for prioritization

The rivers have been prioritized based on the concentration of BOD in five classes from priority I to V. The criteria of each priority are elaborated indicating the concentration range of BOD in mg/l.

Criteria for Priority I

- ◆ Monitoring locations exceeding BOD concentration 30 mg/l has been considered as the standard of sewage treatment plant and in river it appears without dilution.
(River locations having water quality exceeding discharge standards for BOD to fresh water sources)

Criteria for Priority II

- ◆ Monitoring locations having BOD between 20-30 mg/l.

Criteria for Priority III

- ◆ Monitoring locations having BOD between 10-20 mg/l.

Criteria for Priority IV

- ◆ Monitoring locations having BOD between 6-10 mg/l.

Criteria for Priority V

- ◆ Monitoring locations having BOD between 3-6 mg/l.

2.3 Number of stretches- priority-wise

The priority wise number of river stretches has been summed up taking in to account of all the states and union territories in the country. The details of priority-wise number of stretches are summarized in Table 2.1 and the state-wise breakup is provided in Table 2.2. The polluted riverine lengths have been worked out tentatively using the digital maps for each priority class. The total polluted riverine length is 12,363 Km where in priority I to V is 2726 Km, 1145 Km, 1834 Km, 2496 Km and 4166 Km respectively (Table 2.3).

Table- 2.1: Number of stretches in priority class

Priority	Number of Stretches
Priority I	34
Priority II	17
Priority III	36
Priority IV	57
Priority V	158
Total	302

Table- 2.2: State-wise number of stretches in each priority class.

State	Priority -I	Priority - II	Priority - III	Priority - IV	Priority - V	Total
Andhra Pradesh	-	-	-	-	6	6
Assam	1	-	-	3	24	28
Bihar	-	1	1	1	2	5
Chhattisgarh	-	-	-	-	5	5
Daman and Diu	1	-	-	-	-	1
Delhi	1	-	-	-	-	1
Goa	-	-	1	2	5	8

Gujarat	2	-	3	7	8	20
Haryana	-	1	-	1	-	2
Himachal Pradesh	2	-	-	3	3	8
Jammu & Kashmir	-	-	-	5	4	9
Jharkhand	-	-	-	3	5	8
Karnataka	-	-	-	3	12	15
Kerala	1	-	-	2	10	13
Madhya Pradesh	4	1	2	2	12	21
Maharashtra	4	5	18	12	10	49
Manipur	-	1	1	3	7	12
Meghalaya	2	-	1	2	5	10
Nagaland	-	1	-	2	-	3
Orissa	-	1	2	2	7	12
Punjab	1	1	-	-	-	2
Rajasthan	1	1	1	-	5	8
Sikkim	-	-	-	-	5	5
Tamil Nadu	5	1	-	-	1	7
Telangana	3	3	-	-	1	7
Tripura	-	-	-	-	2	2
Uttar Pradesh	3	-	2	2	6	13
Uttarakhand	3	-	-	-	2	5
West Bengal	-	-	4	2	11	17
	34	17	36	57	158	302

Table- 2.3: Priority-wise length of stretches in Km.

Priority Class	Length in Km
I	2726
II	1145
III	1834
IV	2492
V	4166
Total	12,363

CHAPTER – III

STATUS OF POLLUTED RIVER STRETCHES

3.1 Polluted River Stretches –At a Glance

The river locations not meeting desired water quality criteria with respect to Bio chemical Oxygen Demand (BOD) are identified as polluted in 29 out of 35 States/UTs wherein the network of water quality monitoring locations are monitored on regular basis with the help of State Pollution Control Boards/Committees..The state-wise number of Polluted river stretches and cities/towns along these stretches are summarized in Table 3.1.The statewise description of polluted river stretches is provided in subsequent para.

Table –3.1: State-wise number of Polluted River Stretches and Cities/Towns along them.

State	Cities/Towns along Polluted River Stretches	Number of Polluted River Stretches
Andhra Pradesh	8	06
Assam	49	28
Bihar	8	05
Chhattisgarh	12	05
Daman & Diu	2	01
Delhi	1	01
Goa	9	08
Gujarat	38	20
Haryana	7	02
Himachal Pradesh	14	08
Jammu and Kashmir	18	09
Jharkhand	16	08
Karnataka	24	15
Kerala	22	13
Madhya Pradesh	37	21
Maharashtra	161	49
Manipur	17	12
Meghalaya	12	10
Nagaland	4	03
Orissa	20	12
Punjab	5	02
Rajasthan	20	08
Sikkim	11	05
Tamil Nadu	23	07
Telangana	18	07
Tripura	4	02
Uttar Pradesh	37	13
Uttarakhand	6	05
West Bengal	47	17
Total	650	302

3.2 Polluted River Stretches in Andhra Pradesh

Water Quality of rivers in A.P. is monitored at 50 locations on 9 rivers and out of which 38 locations are non-complying to the Water Quality Criteria with respect to BOD. These 38 locations are on 6 rivers. The names of 6 polluted rivers are Godavari, Hundari, Krishna, Tungabhadra, Pennar and Kundu. These rivers are classified in **five classes** based on the level of BOD falling in priority class-V. The details of polluted river stretches are provided in Table 3.2

Table – 3.2: Polluted River Stretches in Andhra Pradesh

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	GODAVARI	RAYANPETA TO RAJAHMUNDRI	RAJAHMUNDRI, RAYANAPETA	140
2.	HUNDRI	LAXMIPURAM TO JOHARPURAM (KURNOOL)	KURNOOL	10
3.	KRISHNA	AMRAVATHI TO HAMSALA DEEVI	VIJAYWADA	270
4.	TUNGABHADRA	MANTHRALAYAM TO BAVAPURAM	KURNOOL	50
5.	PENNAR	TADPATRI TO NELLORE	JAMMALAMADUGU, PRODDATUR, KADAPA	120
6.	KUNDU	NANDYAL TO MADDURU	NANDYAL	120

3.3 Polluted River Stretches in Assam

Water Quality of rivers in Assam is monitored at 43 locations on rivers out of which 42 locations are exceeding the Water Quality Criteria limit with respect to BOD. These 42 non-complying locations are situated on 28 rivers. The names of the rivers are Mora Bharali, Barak, Beki, Bharalu, Bhogdoi, Boginadi, Brahmaputra, Burhidihing, Deepar Bill, Dhansiri, Digboi, Disang, JiaBharali, Jhanji, Kalong, Kapili, Kharsang, Kohora, Kundli, Kushiara, Manas, Pagadia, Panchnai, Ranga nadi, Sankosh, Sonai, Subansiri, Kathakal. These rivers are classified in three priority classes (Class I, IV and V). The details of polluted river stretches are provided in Table– 3.3.

Table–3.3: Polluted River Stretches in Assam

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	MORA BHARALI	TEZPUR TO UDMARI GAON	TEZPUR	8
2.	BARAK	PANCHGRAM TO SILCHAR	BADARPUR, KANCHANPUR,SILCHAR,TAR APUR	45
3.	BEKI	BARPETA ROAD TO JYOTI GAON	BARPETA	10
4.	BHARALU	GUWAHATI TO CHILARAI NAGAR	SANTIPUR,ULUBARI	6
5.	BHOGDOI	JORHAT TO DULIAGAON	JORHAT	6
6.	BOGINADI	LAKHIMPUR TO DIBRUGARH	LAKHIMPUR	40
7.	BRAHAMPU TRA	KHERGHAT TO DHUBRI	GUWAHATI,DIBRUGARH,SIV ASAGAR,JORHAT,TEZPUR,B ARPETA,GOLPARACHAPAR	240
8.	BURHIDIHI NG	MARGHERITA TO TINSUKIA	MARGHERITA,NAHARKATIA , DULIAJAN	30
9.	DEEPAR BILL	DEEPAR BILL TO GUWAHATI	DEEPARBILL	10
10.	DHANSIRI	GOLAGHAT TO KATHKETIA	GOLAGHAT	12
11.	DIGBOI	LAKHIPATHE, RESERVE FOREST	LAKHIPATHE	10
12.	DISANG	DILLIGHAT TO GUNDAMGHAT	TEZPUR	35
13.	JIA BHARALI	SONITPUR TO PANIGAON	TEZPUR	15
14.	JHANJI	JORHAT TO CHAWDANG	JHANZI	6
15.	KALONG	NAGAON TO MORI KALONG	KACHALUKHOWA	4
16.	KAPILI	NAGAON TO KAMPUR TOWN	KALAIKHOWA	20
17.	KHARSANG	ASSAM-ARUNANCHAL BORDER TO LONGTOM-1	SINGMAO,ONGMAN,NEW LONGKEY	5
18.	KOHORA	KOHORA TO MOHPARA	KAZIRANGA,BOGORIJURI	4
19.	KUNDLI	SAPAKHOWA TO SADIA.	LAKHIMI PATHAR,SHANTIPUR	12

20.	KUSHIARA	KARIMGANJ TO SARISA	ZAKIGANJ,KALACHERRA	5
21.	MANAS	BARPETA TO CHILAPARA	JYOTIGAON,BADARPUR	15
22.	PAGLDIA	NALBARI TO KHUDRA SANKARA	BIDYAPUR,SANTIPUR	3
23.	PANCHNAI	ORANG TO BORSALA	PAKARIBARI,GARUBANDHA, KHANKHALA	10
24.	RANGA NADI	DOIMUKH TO NAHARLAGUN	RONO BASTI, YUPIA,	10
25.	SANKOSH	DHUBRI TO GOLAKGANJ	SANTI NAGAR, BIDYAPARA,	10
26.	SONAI	SONAI TO DAKSHIN MOHANPUR	MAJHIRGRAM,KAPTANPUR	15
27.	SUBANSIRI	GEREKAMUKH TO LAKHIMPUR	CHEZIA GOAN,HINDU GAON,BHIMPARA	25
28.	KATHAKAL	HAILAKANDI TO MATIJURI	SUDORSHONPUR,DAKHIN, SONAPUR	25

3.4 Polluted River Stretches in Bihar

Water Quality of rivers in Bihar is monitored at 62 locations on 18 rivers. Among these 7 locations are not complying with Water Quality Criteria. These river locations are situated on five rivers viz. Ganga, Harbora, Manusmar, Ramrekha and Sirsia. The polluted rivers in Bihar are in 4 priority classes (Class-II, III, IV and V). The details of polluted river stretches are provided in Table–3.4.

Table – 3.4: Polluted River Stretches in Bihar

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	GANGA	BUXAR TO BHAGALPUR	BUXAR, PATNA, BHAGALPUR	40
2.	HARBORA	SWADESHI SUGAR MILLS TO NARKATIAGANJ	NARKATIAGANJ	5
3.	MANUSMAR	MOHANIAMNDAL TO RIGA (SITAMARHI)	SITAMARHI	15
4.	RAM REKHA	HARINAGAR TO RAMNAGAR	RAMNAGAR, HARUNAGAR	20
5.	SIRZIA	RUXOL TO KOIREA TOLA (RAXAUL)	RAXAUL	8

3.5 Polluted River Stretches in Chhattisgarh

Water Quality of rivers in Chhattisgarh is measured at 24 locations on 8 rivers and among them 10 locations is non-complying to the Water Quality Criteria with respect to BOD. These 10 locations are on 5 rivers. The names of 5 polluted rivers are; Hasdeo, Kelo, Kharoon, Mahanadi and Seonath. These rivers are classified in priority class V based on the level of BOD. The details of polluted river stretches are provided in Table–3.5.

Table – 3.5: Polluted River Stretches in Chhattisgarh

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	HASDEO	KORBA TO URGA	RUMGARA, SONPURI, KORBA	20
2.	KELO	RAIGARH TO KANAKTORA	RAIGARH	15
3.	KHAROON	BUNDRI TO RAIPUR	RAIPUR	20
4.	MAHANADI	ARRANG TO SIHAWA	RAIPUR, NAWAPARA NAGAR, DHAMTARI, RUDRI, KANKER, RAJIM	70
5.	SEONATH	SHIMGGA TO BEMTA	SIMGGA, BEMTA	10

3.6 Polluted River Stretches in Daman and Diu

There are 12 monitoring locations on rivers in Daman, Diu and Dadra Nagar Haveli out of which 8 locations are exceeding the Water Quality Criteria limit with respect to BOD. These 8 non-complying locations are situated on river Damanganga. These rivers are classified in priority classes (Class - I). The details of polluted river stretches are provided in Table–3.6.

Table – 3.6: Polluted River Stretches in Daman, Diu and Dadra Nagar Haveli

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	DAMANGANGA	SILVASSA TO MOTI DAMAN	DAMAN, SILVASSA	40

3.7 Polluted River Stretches in Delhi

River Yamuna is the river monitored in Delhi at 5 locations. Among these 3 locations are not complying with Water Quality Criteria. All the three locations are Priority Class – I. The details of polluted river stretches are provided in Table–3.7.

Table - 3.7: Polluted River Stretch in Delhi

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	YAMUNA	WAZIRABAD TO ASGARPUR VILLAGE	DELHI	22

3.8 Polluted River Stretches in Goa

Water Quality of rivers in Goa is measured at 28 locations on 16 rivers and among them 11 locations is non-complying to the Water Quality Criteria with respect to BOD. These 11 locations are on 8 rivers. The names of 8 polluted rivers are; Mandovi, Assonora, Bicholim, Chapora, Khandepar, Mapusa, Sal and Valvant. These rivers are classified in **Priority Class – III, IV and V** based on the level of BOD. The details of polluted river stretches are provided in Table–3.8.

Table – 3.8: Polluted River Stretches in Goa

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	MANDOVI	MARCELA TO VOLVOI	MARCELA, VOLVOI	10
2.	ASSONORA	ASSONORA TO SIRSAIM	ASSONORA	5
3.	BICHOLIM	BICHOLIM TO CURCHIREM	BICHOLIM	6
4.	CHAPORA	PERNEM TO MORJIM	CHIKHLI, SIOLIM	18
5.	KHANDEPAR	PONDA TO OPA	PONDA	10
6.	MAPUSA	MAPUSA TO BRITONA	MAPUSA	16
7.	SAL	KHAREBAND TO MOBOR	MARGAO	14
8.	VALVANT	SANKLI – BICHOLIM TO PORIEM	BICHOLIM	5

3.9 Polluted River Stretches in Gujarat

There are 53 monitoring locations on 27 rivers in Gujarat out of which 41 locations are exceeding the Water Quality Criteria limit with respect to BOD. These 41 non-complying locations are situated on 20 rivers. The names of the rivers are; Mahi, Narmada, Ambika, Amlakhadi, Anas, Baleshwar Khadi, Bhadar, Damanganga, Kaveri, Khari, Kim, Kolak, Mahi, Mindhola, Narmada, Panam, Bhogavo, Dhadar, Purna, Sabarmati, Shedi, Tapi and Triveni. These rivers are classified in four priority classes (Class I, III, IV and V). The details of polluted river stretches are provided in Table-3.9.

Table – 3.9: Polluted River Stretches in Gujarat

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	MAHI	SEVALIA TO BAHADARPUR	SEVALIYA, VADODARA	15
2.	NARMADA	GARUDESHWAR TO BHARUCH	BOLAV, GARUDESHWAR, BHARUCH	80
3.	AMBIKA	BILIMORA TO DEVDHA	NAVAPURA, GANDEVI	13
4.	AMLAKHADI	PUNGUM TO BHARUCH	PUNGAM, GADKHOL	20
5.	ANAS	DAHOD TO FATEHPURA	DAHOD	80
6.	BALEHWAR KHADI	PANDESARA TO KAPLETHA	PANDESARA, UDHNA	20
7.	BHADAR	JETPUR VILLAGE TO SARAN VILLAGE	UPLETA, DHORAJI, JETPUR	15
8.	DAMANGANG A	KACHIGAON TO VAPI	KANCHIGAM, VAPI	30
9.	KAVERI	BILLIMORA TO SAI NATH NAGAR	BILIMORA	50
10.	KHARI	LALI VILLAGE TO KASHIPURA	UMIYAPURA	20
11.	KIM	SAHOL BRIDGE TO HANSOL	SAHOL	10
12.	KOLAK	KIKARLA TO SALVAV	KIKARLA, BAGWADA	20
13.	PANAM	LUNAWADA TO THANA SAVALI	LUNAWADA	20
14.	BHOGAVO	SURENDRANAGAR TO NANA KERALA	SURENDRANAGAR	20

15.	DHADAR	KHOTDA TO CHANDPURA	KHOTDA	20
16.	PURNA	NAVSARI TO MACHHAD	NAVSARI, JALALPORE, VIRAVAl	14
17.	SABARMATI	KHEROJ TO VAUTHA	GANDHINAGAR, AHEMDABAD	80
18.	SHEDHI	DHAMOD TO KHEDA	DHAMOD	6
19.	TAPI	KHADOD (BARDOLI) TO SURAT	BARDOLI, UKAI, MANDVI, SAMPURA, KAMREJ, SURAT	45
20.	TRIVENI	TRIVENI SANGAM TO BADALPARA	PRABHAS PATAN, VERAVAL	5

3.10 Polluted River Stretches in Haryana

The rivers in Haryana are monitored at 8 locations on 2 rivers. Among these 7 locations are not complying with Water Quality Criteria. These river locations are situated on two rivers viz. Ghaggar and Yamuna. The polluted rivers in Haryana are in 2 priority classes (Class-II and IV). The details of polluted river stretches are provided in Table– 3.10.

Table – 3.10: Polluted River Stretches in Haryana

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	GHAGGAR	RORKI TO SIRSA	RORKI, SIRSA	30
2.	YAMUNA	PANIPAT TO SONEPAT, DELHI TO FARIDABAD	PANIPAT, SONIPAT, FARIDABAD, BALLABHGARH, PALWAL	45

3.11 Polluted River Stretches in Himachal Pradesh

Water Quality of rivers Himachal Pradesh is measured at 58 locations on 22 rivers and among them 12 locations is non-complying to the Water Quality Criteria with respect to BOD. These 12 locations are on 8 rivers. The names of 8 polluted rivers are; Beas, Tons, Sirsa, Swan, Sukhana, Suketi khad, Markandaand Binwa. These rivers are classified in priority class I, IV and V based on the level of BOD. The details of polluted river stretches are provided in Table– 3.11.

Table – 3.11: Polluted River Stretches in Himachal Pradesh

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	BEAS	KULLU TO DEHRAGOPIPUR	SANOT, KULLU	80
2.	TONS	KILLOR TO TILWARI	DANDA, HARIPUR	10
3.	SIRSA	NALAGARH TO SOLAN	SORI,RADYALI	6
4.	SWAN	UNA TO SANTOKHGARH	ARNIALA, PREM NAGAR	10
5.	SUKHANA	SUKHNA TO PARWANOO	BHAGWANPURA, KISHANGARH	15
6.	SUKETI KHAD	MANDI TO BEHNA	MANDI, SAMKHETAR, KARTAPUR	6
7.	BINWA	PAPROLA TO BAIJNATH	KHATREHR	5
8.	MARKANDA	KALA AMB TO NARAYANPUR	KALA AMB, OGLI	4

3.12 Polluted River Stretches in Jammu and Kashmir

There are 45 monitoring locations on 17 rivers in Jammu and Kashmir out of which 16 locations are exceeding the Water Quality Criteria limit with respect to BOD. These 16 non-complying locations are situated on 9 rivers. The names of the rivers are; Banganga, Basanter, Chenab, Chunt Kol, Dewak, Gawkadal, Jhelam, Liddar Nalah and Tawi. These rivers are classified in two priority classes (Class IV and V). The details of polluted river stretches are provided in Table– 3.12.

Table – 3.12: Polluted River Stretches in Jammu and Kashmir

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	BANGANG A	PONY SHED TO BATHING GHAT	KATRA	3
2.	BASANTER	SAMBA TO CHAKMANGARAKWAL	MANANUN,BALOUR,PAREI, BEDI,PALTH	5
3.	CHENAB	JAL PATAN TO PARGAWAL	AKHNOOR,MUTHI, PARGAWAL	12

4.	CHUNT KOL	MAULANA AZAD BRIDGE TO KANIKADAL	SRINAGAR, FATEH KADAL, MAHARAJGANJ	5
5.	DEWAK	GARIGARH TO UTTARBEHANI	JAMMU, TRIKUTA NAGAR, CHAK RAKWALAN	5
6.	GAWKADAL	GAWKADAL BRIDGE TO NOHATA	SRINAGAR, SHAHEED GANJ	2
7.	JHELAM	CHATTABAL WEIR TO ANANTNAG	SRINAGAR, KARAN NAGAR	40
8.	LIDDER	SILICOM TO LIDDAR NALAH	ANANTNAG	5
9.	TAWI	SURAJNAGAR TO BELICHARANA	JAMMU, CHAK RAKWALAN	5

3.13 Polluted River Stretches in Jharkhand

The rivers in Jharkhand are monitored at 31 locations on 14 rivers. Among these 14 locations are not complying with Water Quality Criteria. These 14 locations are situated on 8 rivers viz. Bokaro, Damodar, Jumar, Karo, Koel, North Koel, Sankh and Subarnrekha. The polluted rivers in Jharkhand are in 2 priority classes (Class- IV and V). The details of polluted river stretches are provided in Table– 3.13.

Table – 3.13: Polluted River Stretches in Jharkhand

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	BOKARO	BILYOTARA TO JARANDI	BILYOTRA, GUMIA	8
2.	DAMODAR	PHUSRO ROAD BDG TO TURIO	PHUSRO, BHANDARIDAH, DHANBAD	12
3.	JUMAR	KANKE DAM TO KADAL	RANCHI, MORABADI	10
4.	KARO	LOHOJIMI TO BALAGODA	BALAGODA, LOHOJIMI	16
5.	NORTH KOEL	BASIADAM TO REHLA	RANCHI, DALTONGANJ	6
6.	KOEL	DALTANGANJ TO REHLA	KANDI, BISRAMPUR, MAJHIAON	25
7.	SANKH	KONGSERABASAR TO BOLBA	KUSUMDEGI, MACHHKATA	10
8.	SUBARNAREKHA	HATIA DAM TO JAMSHEDPUR	RANCHI, NAMKUM	120

3.14 Polluted River Stretches in Karnataka

Water Quality of rivers Karnataka is measured at 61 locations on 25 rivers and among them 38 locations is non-complying to the Water Quality Criteria with respect to BOD. These 38 locations are on 15 rivers. The names of 15 polluted rivers are; Arkavathi, Bhadra, Bhima, Cauvery, Ghatprabha, Kabini, Kagina, Kali, Krishna, Lakshmantirtha, Malprabha, Manjira, Shimsha, Tungabhadra and Tunga. These rivers are classified in priority class IV and V based on the level of BOD. The details of polluted river stretches are provided in Table–3.14.

Table – 3.14: Polluted River Stretches in Karnataka

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	ARKAVATHI	HALLI RESERVOIR TO KANAKAPURA TOWN	BENGALURU, BHADRAVATHI	35
2.	BHADRA	HOLEHUNNUR TO BHADRAVATHI	CHIKKODI, KOPA	10
3.	BHIMA	GHANAPUR TO YADGIR	JEVARGI	80
4.	CAUVERY	RANGANATHITTU TO SATHYAMANGALAM BRIDGE	SRIRANGA PATNA	50
5.	GHATPRABHA	GOKAK TO CHIGADOLLI	GOKAK	5
6.	KABINI	NANJANAGUD TO HEJJIGE	BASAVANAPURA, CHIKKAIAHNACHATRA	5
7.	KAGINA	SHAHABAD TO HONGUNTA	BHANKOOR	10
8.	KALI	HASAN MAAD (WEST COAST PAPER MILL) TO BOMMANAHALLI RESERVOIR	DANDELI	10
9.	KRISHNA	YADURWADI TO TINTINI BRIDGE	UGARKHURD, CHIKKODI, NARAYANPURA	200
10.	LAKSHMAN TIRTHA	KATTEMALAVADI TO HUNSUR	UNDAVADI	10
11.	MALPRABHA	KHANAPUR TO DHARWAD	M.K HUBLI, KADROLLI	80
12.	MANJIRA	BIDAR TO HUSSAIN NAGAR	NITTUR, CHAMBOL, BIDAR	10

13.	SHIMSHA	YEDIYAR TO HALAGUR	THATTEKERE, MALLUR	80
14.	TUNGABHA DRA	HARIHAR TO KORLAHALLI	ULLANUR, HARIHAR	60
15.	TUNGA	SHIVAMOGA TO KUDLI	SHIVAMOGA	10

3.15 Polluted River Stretches in Kerala

There are 73 monitoring locations on 55 rivers in Kerala out of which 18 locations are exceeding the Water Quality Criteria limit with respect to BOD. These 18 non-complying locations are situated on 13 rivers. The names of the rivers are; Chitrapuzha, Kadambayar, Kallai, Karamana, Keecheri, Kuppam, Manimala, Neeleswaram, Periyar, Pullur, Puzhckal, Thirur and Uppala. These rivers are classified in three priority classes (Class – I, IV and V). The details of polluted river stretches are provided in Table– 3.15.

Table – 3.15: Polluted River Stretches in Kerala

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	CHITRAPUZHA	IRUMPANAM TO KARINGACHIRA	CHITTETHUKARA	15
2.	KADAMBAYAR	MANCKAKADAVU TO BRAHMAPURAM	KAKKATTIKARA, THENGUMTHURUTHU	8
3.	KALLAI	THEKEPURAM TO ARAKKINAR	KOZHIKODE, MANANCHIRA	5
4.	KARAMANA	MALEKKDU TO THIRUVALLAM	TRIKKANNAPURAM	4
5.	KEECHERI	PULIYANNOR TO KECHERY	THRISSUR	6
6.	KUPPAM	THALIPARAMBA TO VELICHANGOOL	MARATHAKKAD, KUTTIYERI	12
7.	MANIMALA	KALLOOPARA TO THONDRA	MALLAPPALLY, VAIPUR	10
8.	NEELESWARAM	NAMBIARKAL DAM TO HOSDURG	PUTHUKAI	8
9.	PERIYAR	ALWAYE-ELOOR TO KALAMASSERY	MUTTINAKAM, EDAMPAADAM	5
10.	PULLUR	RAMNAGAR TO KANNOTH	KOTTAPARA,	2
11.	PUZHACKAL	OLARIKKARA TO PUZHACKAL	PUTHURKARA, CHETTUPUZHA	3

12	THIRUR	NADUVILANGADI TO THALAKKADATHUR	CHEMBRA, THAZHEPALAM, MANGALAM THIRUTHUMMAL	8
13	UPPALA	POYYA TO MULINJA	MANJESHWAR, HOSABETTU	3

3.16 Polluted River Stretches in Madhya Pradesh

The rivers in Madhya Pradesh are monitored at 96 locations on 41 rivers. Among these 45 locations are not complying with the Water Quality Criteria. These 45 locations are situated on 21 rivers viz. Banjar, Betwa, Bichia, Chambal, Chillar, Denwa, Gohad, Gour, Jammer, Kalisot, Khan, Kolar, Kshipra, Kunda, Malei, Narmada, Parvati, Shivna, Tapi, Tons and Wainganga. The polluted rivers in Madhya Pradesh are in 5 priority classes (Class- I, II, III, IV and V). The details of polluted river stretches are provided in Table– 3.16.

Table– 3.16: Polluted River Stretches in Madhya Pradesh

S no.	River name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	BANJAR	MALANJKHAND TO TINGIPUR	MALANJKHAND, TINGIPUR	15
2.	BETWA	MANDIDEEP TO VIDISHA	MANDIDEEP, VIDISHA, BHOPAL, RAISEN	70
3.	BICHIA	SILPARI TO GADHAWA	REWA	5
4.	CHAMBAL	NAGDA TO RAMPURA	NAGDA, RAMPURA	150
5.	CHILLAR	SHAJAPUR TO MURADPURA	SHAJAPUR, DANSIPURA, MURADPURA	10
6.	DENWA	DHUPGARH TO SARNI	DHUPGARH, SARNI	50
7.	GOHAD	GOHAD DAM TO GORMI	BANIPURA, GOHAD, GORMI	25
8.	GOUR	JABALPUR TO SALIWADA	JABALPUR	15
9.	JAMMER	DHLOWAD TO RAOTI	RAOTI	5

10.	KALISOT	MANDIDEEP TO SAMARDHA VILLAGE	MANDIDEEP, BHOPAL	12
11.	KHAN	KABIT KHEDI TO KHAJRANA	INDORE	8
12.	KOLAR	SURAJNAGAR TO SHIRDIPURAM	INDORE	8
13.	KSHIPRA	SIDDHAWAT TO TRIVENISANGAM	UJJAIN	8
14.	KUNDA	KHARGONE TO KHEDI KHURD	KHARGONE	15
15.	MALEI	JAORA TO BARAUDA	JAORA	10
16.	NARMADA	MANDALA TO BHEDA GHAT SETHANI GHAT TO NEMAWAR	NEMAWAR, JABALPUR, HOSHANGABAD	160
17.	PARVATI	BATAWADA TO PILUKHEDI	BATAWADA, PILUKHEDI, NARSINGHGARH	80
18.	SHIVNA	MANDSAUR TO MALAYA KHEDI	MANDSAUR	8
19.	TAPI	NEPANAGAR TO BURHANPUR	NEPANAGAR, BURHANPUR	25
20.	TONS	CHAKGHAT TO CHAPPAR	GARGATA, CHAKGHAT, CHHAPAR	5
21.	WAINGANGA	CHINDWARA TO BALAGHAT	CHHAPARA, BALAGHAT, JABALPUR, SEONI	150

3.17 Polluted River Stretches in Maharashtra

Water Quality of rivers in Maharashtra is measured at 156 locations on 49 rivers and among them 153 locations is non-complying to the Water Quality Criteria with respect to BOD. These 153 locations are on 49 rivers. The names of 49 polluted rivers are;Wena, Wainganga, Godavari, Bhima,Krishna, Ulhas, Kundalika, Tapi, Girna,Panchganga, Nira, Bhatsa, Rangavali, Indrayani, Chandrabhaga, Vashishti, Mithi, Kanhan, Koyna, Amba, Amravati, Bindusara, Darna, Ghod, Gomai, Hiwara, Kan, Manjra, Mor, Morna, Mula, Mula- Mutha, Mutha, Panzara, Patalganga, Pawna, Pedhi, Pehlar, Penganga, Purna, Savitri, Sina, Surya, Urmodi, Vel, Vaitrana, Venna, Waghur and Wardha. These rivers are classified in priority class I, II, III, IV and V based on the level of BOD. The details of polluted river stretches are provided in Table– 3.17.

Table – 3.17: Polluted River Stretches in Maharashtra

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	WENA	KAWADGHAT TO HINDANGHAT	JAWADE, WANI	5
2.	WAINGANGA	TUMSA TO ASHTI	TUMSA, ASHTI, KANHAN, BRAHMAPURI, BHANDARA	150
3.	GODAVARI	SOMESHWAR TEMPLE TO RAHED	SAYKHEDA, GANGAPUR, KAYGAON, PAITHAN, DHELGAON, NANDED, RAHER, NASHIK	300
4.	BHIMA	VITHALWADI TO TAKLI	KOREGAON,PARGAON,NIRA, NARASINGPUR,TAKALI	200
5.	KRISHNA	SHINDI TO KURUNDWAD	WAI, KARAD, URAN ISLAMPUR, SANGLI, SHIROI, KSHETRA MAHULI	200
6.	ULHAS	KALYAN TO BADLAPUR	KHADAKPADA, ULHAS NAGAR, DOMBIVALI, KALYAN	20
7.	KUNDALIKA	SALAV TO ROHA	SUNDARNAGAR, ASHTAMI, ROHA	25
8.	TAPI	RAVER TO SHAHADA	NANDURBAR, BHUSAWAL, NANDURBAR	150
9.	GIRNA	MALEGAON TO JALGAON	GULSHANABAD, AGHAR	100
10.	PANCHGANGA	SHIROL TO KOLHAPUR	SHIROL, ICHALKARANJI	40
11.	NIRA	SANGAVI TO SHINDEWADI	SAKHARWADI, SAROLA, SHINDEWADI	80
12.	BHATSA	SHAHAPUR TO BHADANE	SHAHAPUR, BHATSA, BHADANE	20
13.	RANGAVALI	TINTEMBA TO NAVAPUR	NAVAPUR, DHAJ, UCHCHHAL	10
14.	INDRAYANI	MOSHIGAON TO ALANDIGAON	DEHU, MOSHI, ALANDI, PIMPRI-CHINCHWAD	96
15.	CHANDRABHAGA	PANDHARPUR TO SHEGAON	PANDHARPUR, NAGPUR, AMRAVATI	12
16.	VASHISTI	KHERDI TO DALVATNE	KHERDI, DALVATNE, CHIPLUN	3
17.	MITHI	POWAI TO DHARAVI	MUMBAI	15
18.	KANHAN	BHANDARA TO NAGPUR	NAGPUR, KHANDALA, BHANDARA	20
19.	KOYNA	KARAD TO PAPDARDE	KARAD, PATAN, PADARDE, TAMBAVE	7

20.	AMBA	BENSE TO ROHA	POYNAD, BENSE, ROHA	10
21.	AMRAVATI	KOPARLI TO BETWAD	KOPARLI, DONDAICHA	10
22.	BINDUSARA	SWARAJ NAGAR TO SNEHNAGAR	SWARAJ NAGAR, BEED, KADAMWADI, MOMINPURA	3
23.	DARNA	IGATPURI TO SANSARI	NASHIK,IGATPURI,BHAGUR	40
24.	GHOD	ANNAPUR TO SHISHUR	ANNAPUR, SHIRUR, PUNE, KATHAPUR, FAKATE	10
25.	GOMAI	LONKHEDA TO SHAHDA	LONKHEDA, SHAHDA, DAMARKHEDA	5
26.	HIWARA	PACHORA TO NIMBORA	PACHORA, NIMBORA	10
27.	KAN	KAVATHE TO SAKARI	KAVATHE, SAKARI	5
28.	MANJARA	LATUR TO NANDED BRIDGE	LATUR, WANJARKHEDA, SARSA	2
29.	MOR	JALGAON TO AMODA	TAMBAPURA, FAIZPUR, AMODA, MAROOL, NHA VI	2
30.	MORNA	AKOLA TO TAKALI JALAM	AKOLA	4
31.	MULA	BOPODI TO AUNDH GAON	BOPODI, AUNDH	6
32.	MULA-MUTHA	THEUR TO MUNDHWA BRIDGE	THEUR, MUNDHWA	15
33.	MUTHA	SHIVAJI NAGAR TO KHADAKWASLA DAM	SHIVAJI NAGAR, SHIVANE	12
34.	PANZARA	VARKHEDE TO DHULE	VARKHEDE, DHULE, KUNDANE,	5
35.	PATALGANGA	KHADEPADA TO KOPOLI	KHOPOLI, KHARPADA, KHALAPUR, APTA	30
36.	PAWNA	DAPODI TO RAVET	DAPODI, RAVET, KASARWADI, PIMPRI-CHINCHWAD, LONAVALA, DEHU, LAVALE	12
37.	PEDHI	NARAYANPUR TO BHATKULI	BHATKULI, NARAYANPUR, AMRAVATI, WADWAD	3
38.	PELHAR	PELHAR DAM TO GOLANI NAKA	GOLANI NAKA, VASAI, THANE	6
39.	PENGANGA	MEHKAR TO UMARKHED	UMARKHED, JAGAPUR, MEHKAR, GARKHEDA, JUMDA, RITHAD	150
40.	PURNA	DHUPESHWAR TO ASEGAON	AMRAVATI, ACHALPUR, SHINGNAPUR, HIWARA, BAJI	150

			TPUR,MARKANDA,SONARKEHDA	
41.	SAVITRI	DADLI TO MUTHAVALI	DADLI,MUTHAVALI,RAJEWADI,KEMBURLI	2
42.	SINA	SOLAPUR TO BANKALAGI	SOLAPUR,BANKALAGIWADWAL,LAMB OTI,RIDHORE,MUNGASHI	8
43.	SURYA	DHAMNI DAM TO	DHARAMPUR,HARANWALI,PALGHAR	40
44.	URMODI	DHANGARWADI TO NAGTHANE	NAGTHANE,DHANGARWADI,VECHALE,UPALI,PARALI (SAJJANGAD)	2
45.	VAITRANA	GANDHRE TO SARASHI	GANDHRE, SARASHI,PIMPROLI,KOYNA	2
46.	VEL	NHAVARE TO SHIKARPUR	SHIKRAPUR,MUKHAI,PARHADWADI,KANHERSAR	10
47.	VENNA	MAHABALESHWAR TO MAHULI	MAHULI,VARYE,SATARA	50
48.	WAGHUR	SUNASGAON TO SAKEGAON	NASIRABAD,BHUSAWAL	8
49.	WARDHA	GHUGHUS TO RAJURA	GHUGUS, RAJURA,BALHARSHAH, CHANDRAPUR	30

3.18 Polluted River Stretches in Manipur

Water Quality of rivers Manipur is measured at 41 locations on 15 rivers and among them 29 locations is non-complying to the Water Quality Criteria with respect to BOD. These 29 locations are on 12 rivers. The names of 12 polluted rivers are; Barak, imphal, Iril, Khuga, Khujairok, Lokchao, Maha, Manipur, Nambul, Sekmai, Thoubal and Wangjing. These rivers are classified in priority class II, III, IV and V based on the level of BOD. The details of polluted river stretches are provided in Table– 3.18.

Table – 3.18: Polluted River Stretches in Manipur

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1	BARAK	TAMENGLONG TO SENAPATI	KARONG, SENAPATI	60
2	IMPHAL	KANGLA MOAT TO SAMUROU	IMPHAL	15
3	IRIL	KANGLA SIPHAI TO UKHRUL	UKHRUL, IMPHAL	10
4	KHUGA	KHUGA LAKE TO CHURACHANDPUR	GELJANG, MATA,	14

			CHURACHANDPUR	
5	KHUJAIROK	MOREH TO MAOJANG	MOREH	6
6	LOKCHAO	BISHNUPUR TO LOKTAK LAKE	BISHNUPUR	10
7	MAHA	MANTRI PANTHA TO CHANDEL	CHANDEL	2
8	MANIPUR	SEKMAIJAN TO THOUBAL	BISHNUPUR, THOUBAL, SEKHMAIJAN	30
9	NAMBUL	SINGDA DAM TO BISHNUPUR	SENAPATI, IMPHAL, BISHNUPUR	35
10	SEKMAI	SEKMAI DAM TO KAKCHING, THOUBAL	SEKMAI	45
11	THOUBAL	SHONG KONG TO PHADOM	YAIRIPOK, PHADOM, UKHRUL	80
12	WANGJING	WANGJING TO HEIROK	WANGJING, HEIROK	4

3.19 Polluted River Stretches in Meghalaya

There are 40 monitoring locations on 19 rivers in Meghalaya, out of which 13 locations are exceeding the Water Quality Criteria limit with respect to BOD. These 13 non-complying locations are situated on 10 rivers. The names of the rivers are; Bugi, Kynshi, Kyrhukhla, Lukha, Myndtu, Nonbah, Umkhrah, Umshyrpi, Umtrew and Wahbei. These rivers are classified in four priority classes (Class– I, III, IV and V). The details of polluted river stretches are provided in Table–3.19.

Table – 3.19: Polluted River Stretches in Meghalaya

S No.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	BUGI	SONGMAGIRI TO BUGI	DALU, SONGMAGIRI	20
2.	KYN Shi	CHINTUSORA TO RANIKOR	CHINTUSORA, RANIKOR	2
3.	KYRHUKHLA	SUTNGA TO KHLIERIAT	SUTNGA, KHLIEHRIAT	10

4.	LUKHA	MYNDIHATI TO SHYMPLONG	KHLIEHRIAT	25
5.	MYNTDU	JOWAI TO PAMHADEM	JOWAI	5
6.	NONBAH	NANGSTOIN TO WAHRIAT	NONGSTOIN	3
7.	UMKHRAH	MAWLAI TO SHILLONG	MAWLAI- MAWĪONG, SHILLONG	15
8.	UMSHYRPI	UMSHYRPI BRIDGE TO DHANKETI	SHILLONG	2
9.	UMTREW	BYRNIHAT TO MORANG DALA	BYRNIHAT	5
10.	WAHBLEI	SHDADDKHAR, WEST KHASI HILLS TO RANIKOR	SHDADDKHAR	5

3.20 Polluted River Stretches in Nagaland

Water Quality of rivers Nagaland is measured at 16 locations on 7 rivers and among them 8 locations is non-complying to the Water Quality Criteria with respect to BOD. These 8 locations are on 3 rivers. The names of 3 polluted rivers are; Chathe, Dhansiri and Dzu. These rivers are classified in priority class II and IV based on the level of BOD. The details of polluted river stretches are provided in Table–3.20.

Table – 3.20: Polluted River Stretches in Nagaland

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	CHATHE	MEDZIPHEMA TO, DIMAPUR	MEDZIPHEMA, CHUMUKEDIMA, DIMAPUR	15
2.	DHANSIRI	CHECK GATE TO DIPHU BDG	DIMAPUR	6
3.	DZU	KOHIMA TO DZUKO VALLEY	KOHIMA	15

3.21 Polluted River Stretches in Orissa

The rivers in Orissa are monitored at 64 locations on 21 rivers. Among these 24 locations are not complying with Water Quality Criteria. These 24 locations are situated on 12 rivers viz. Brahmani, Budhalbhanga, Daya, Kathjodi, Koel, Kuakhai, Mahanadi, Nagavali, Rushikulya, Serua and Vanasdhara. The polluted rivers in Orissa are in 4 priority classes (Class- II, III, IV and V). The details of polluted river stretches are provided in Table– 3.21.

Table – 3.21: Polluted River Stretches in Orissa

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	BAITRANI	JAJPUR-KUAKHIA RD TO DHAMRA	JAJPUR	70
2.	BRAHAMANI	ROURKELA TO BIRITOL	ROURKELA, BANKI, TALCHER TOWN, BIRITOL	250
3.	BUDHABALNAGA	MAHULIA TO BARIPADA	BARIPADA	5
4.	DAYA	BHUBANESWAR TO BARAGARH	BHUBANESHWAR	15
5.	KATHAJODI	CUTTACK TO URALI	CUTTACK, URALI	5
6.	KOEL	DALKI TO PARLIPOS	DALKI	2
7.	KUAKHAI	URALI TO BHUBANESWAR	BHUBANESHWAR	25
8.	MAHANADI	SAMBALPUR TO PARADEEP	SAMBALPUR, CUTTACK, PARADEEP	250
9.	NAGAVALLI	JAYKAYPUR TO RAYAGADA	JAYKAYPUR, RAYAGADA	10
10.	RUSHIKULYA	PRATAPPUR TO GANJAM	ASKA, PITTAL, PURUSOTTAMPUR, GANJAM	15
11.	SERUA	KHANDAETA TO SANKHATRASA	KHANDAETA	5
12.	VANSADHARA	GUNUPUR TO BATHILI	GUNUPUR	5

3.22 Polluted River Stretches in Punjab

There are 38 monitoring locations on 5 rivers in Punjab out of which 18 locations are exceeding the Water Quality Criteria limit with respect to BOD. These 18 non-complying locations are situated on 2 rivers. Name of the rivers is; Ghaggar and Satluj. These rivers are classified in two priority classes (Class – I and II). The details of polluted river stretches are provided in Table– 3.22.

Table – 3.22: Polluted River Stretches in Punjab

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	GHAGGAR	SARDULGARH TO MUBARAKPUR	SARDULGARH	150
2.	SATLUJ	RUPNAGAR TO HARIKE BRIDGE	RUPNAGAR, LUDHIANA, JALANDHAR, PHAGWARA	120

3.23 Polluted River Stretches in Rajasthan

Water Quality of rivers Rajasthan is measured at 17 locations on 11 rivers and among them 14 locations is non-complying to the Water Quality Criteria with respect to BOD. These 14 locations are on 8 rivers. The names of 8 polluted rivers are; Banas, Chambal, Chappi, Ghaggar, kali sindh, Parvati, Jawai and Ujad. These rivers are classified in priority class I, II, III and V based on the level of BOD. The details of polluted river stretches are provided in Table–3.23.

Table – 3.23: Polluted River Stretches in Rajasthan

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	BANAS	ALONG BISALPUR DAM, SWAROOPGANJ, NEWTA DAM	BISALPUR, SIROHI, SWAROOPGANJ, TONK, BHILWARA	60
2.	CHAMBAL	SAWAIMADHOPUR TO KOTA	SAWAIMADHOPUR, KOTA	65
3.	CHAPPI	CHHAPI DAM, JHALAWAR TO CHHAPIHERA	CHHAPIHERA, THONAWAD, ARNIA, METHOON, JHALAWAR	20
4.	GHAGGAR	SUREWALA TO HAMUMANGARH	HANUMANGARH	15
5.	KALI SINDH	BAROD TO GADEPAN	BORKHERA, BALDARA	20
6.	PARVATI	KHATOLI, KOTA TO TODRA	MOHAMMADPUR, KHATOLI	10
7.	JAWAI	JAWAI DAM SENA TO GALTHANI	SENA, GALTHANI	10
8.	UJAD	MORI (BHIM SAGAR DAM) TO ANGHORA	MORI	2

3.24 Polluted River Stretches in Sikkim

The rivers in Sikkim are monitored at 14 locations on 5 rivers. All the 14 locations are not complying with Water Quality Criteria. These 14 locations are situated on 5 rivers viz. Dikchu, Maney Khola, Rangit, Ranichu, Teesta. The polluted rivers in Sikkim are in priority class V. The details of polluted river stretches are provided in Table– 3.24.

Table – 3.24: Polluted River Stretches in Sikkim

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	DIKCHU	NAMPONG TO DIKCHU	DIKCHU	4
2.	MANEY KHOLA	ADAMPOOL TO BURTUKK	ADAMPOOL	2
3.	RANGIT	DAM SITE (NHPC) TO TREVENI	LEGSHP, JORETHANG, TRIVENI	20
4.	RANICHU	NAMLI TO SINGTAM	RANIPOOL, NAMLI, SINGTAM, GANGTOK	15
5.	TEESTA	MELLI TO CHUNGTHANG	MELLI, RANGPO	60

3.25 Polluted River Stretches in Tamil Nadu

The rivers in Tamil Nadu are monitored at 45 locations on 9 rivers. Among these 39 locations are not complying with Water Quality Criteria. These 39 locations are situated on 7 rivers viz. Bhawani, Tambirapani, Palar, Sarabanga, Thirumanimuthar and Vasista. The polluted rivers in Tamil Nadu are in 3 priority classes (Class- I, II and V). The details of polluted river stretches are provided in Table– 3.25.

Table – 3.25: Polluted River Stretches in Tamil Nadu

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	BHAVANI	SIRUMUGAI TO KALINGARAYAN	SIRUMUGAI, SATHYAMAGALAM, BHAVANI	60
2.	CAUVERY	METTUR TO MAYILADUTHURAI	METTUR, BHAVANI, KOMRA, VAIRAPALAYAM, ERODE,	200

			VELUR, PUGALUR, NAMAKKAL, TIRUCHIRAPPALLI	
3.	PALAR	VANIYAMBADI TO MINNUR	VANIYAMBADI, VELLORE	6
4.	SARABANGA	THATHAYAMPATTI TO T.KONAGAPADI	THATHAYAMPATTI, OMALUR, T.KONAGAPADI	15
5.	TAMBIRAPANI	PAPPANKULAM TO ARUMUGANERI	PAPPANKULAM, TIRUNELVELI, SRIVAİKUNTAM	80
6.	THIRUMANIMUTHAR	SALEM TO PAPPARAPATTI	SALEM	15
7.	VASISTA	MANIVILUNDHAN TO THIYAGANUR	MANIVILUNDHAN, THALAIVASAL, THIYAGANUR	10

3.26 Polluted River Stretches in Telangana

There are 38 monitoring locations on rivers in Telangana out of which 18 locations are exceeding the Water Quality Criteria limit with respect to BOD. These 18 non-complying locations are situated on 7 rivers. The names of the rivers are; Godavari, Krishna, Manjeera, Musi, Nakkavagu, Sabari and Maner. These rivers are classified in three priority classes (Class – I, II and V). The details of polluted river stretches are provided in Table – 3.26.

Table – 3.26: Polluted River Stretches in Telangana

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	GODAVARI	KAMALAPUR TO BURGAMPAHAD	BASAR, MANCHERIAL, RAMAGUNDAM, MANTHAN, KAMALAPUR, BOORGAMPAHAD	100
2.	KRISHNA	THANGADIGI TO WADAPALLY	THANGADIGI, GUNTUR	80
3.	MANJEERA	GOWDICHARLA TO NAKKAVAGU	GOWDICHARLA	110
4.	MUSI	HYDRABAD TO SURYAPET	HYDERABAD, RANGAREDDY, NALGONDA	150
5.	NAKKAVAGU	PATANCHERU TO GOWDICHARLA	MEDAK,	50

			BACHUGUDAM	
6.	SABARI	PALANCHU TO BURGAMPAHAD	KHAMMAM	50
7.	MANER	WARANGAL TO SOMNAPALLI	WARANGAL, KARIMNAGAR	150

3.27 Polluted River Stretches in Tripura

Water Quality of rivers Tripura is measured at 29 locations on 12 rivers and among them 2 locations are non-complying to the Water Quality Criteria with respect to BOD. These 2 locations are on 2 rivers. The names of 2 polluted rivers are; Gumti and Haora. These rivers are classified in priority class V based on the level of BOD. The details of polluted river stretches are provided in Table– 3.27.

Table – 3.27: Polluted River Stretches in Tripura

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	GUMTI	TELKAJILA TO AMARPUR	UDAIPUR,BAMPUR, AMARPUR	20
2.	HAORA	AGARTALA TO BISHRAMGANJ	AGARTALA	10

3.28 Polluted River Stretches in Uttar Pradesh

There are 64 monitoring locations on 16 rivers in Uttar Pradesh out of which 42 locations are exceeding the Water Quality Criteria limit with respect to BOD. These 42 non-complying locations are situated on 13 rivers. The names of the rivers are; Gomti, Hindon, Kalinadi, Ramganga, Rapti, Rihand, Sai, Saryu, Ganga, Yamuna and Kosi. These rivers are classified in four priority classes (Class – I, III, IV and V). The details of polluted river stretches are provided in Table– 3.28.

Table – 3.28: Polluted River Stretches in Uttar Pradesh

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	BETWA	HAMIRPUR TO WAGPURA	HAMIRPUR, JHANSI	60
2.	GHAGHARA	BARHALGANJ TO DEORIA	AYODHYA, TANDA, DEORIA	25
3.	GOMTI	SITAPUR TO VARANASI	SITAPUR, LUCKNOW, SULTANPUR	250

4.	HINDON	SAHARANPUR TO GHAZIABAD	SAHARANPUR, MUZAFFARNAGAR, MEERUT, GHAZIABAD	200
5.	KALINADI (EAST)	MUZAFFAR NAGARTO GULAOTHI	MEERUT, HAPUR, GULAOTHI, BULANDSHAHR	80
6.	RAMGANGA	MURADABAD TO KANNAUJ	MORADABAD, BAREILLY, FARRUKHABAD	200
7.	RAPTI	DOMINGARH TO RAJGHAT	GORAKHPUR	50
8.	RIHAND	RENUKUT TO PIPARI	OBRA, RENUKOOT, PIPARI	15
9.	SAI	UNNAO TO JAUNPUR	RAEBARELI, BELA PRATAPGARH, JAUNPUR	180
10.	SARYU	AYODHYA TO ELAFATGANJ	FAIZABAD, AYODHYA	25
11.	GANGA	KANNAUJ TO VARANASI	KANNAUJ, KANPUR, ALLAHABAD, MIRZAPUR, VARANASI	450
12.	YAMUNA	ASGARPUR (NOIDA) TO ETAWAH AND SHAHPUR TO ALLAHABAD (BALUA GHAT)	GAUTAM BUDDHA NAGAR (NOIDA & GREATER NOIDA), VRINDAVAN, MATHURA, AGRA, SHAHPUR	600
13.	KOSI	AJEETPUR TO CHAMRAUL	AJEETPUR, RAMPUR	90

3.29 Polluted River Stretches in Uttarakhand

The rivers in Uttarakhand are monitored at 28 locations on 11 rivers. Among these 12 locations are not complying with Water Quality Criteria. These 12 locations are situated on 5 rivers viz. Suswa, Ganga, Dhela, Bhella and Kosi. The polluted rivers in Uttarakhand are in 2 priority classes (Class- I and V). The details of polluted river stretches are provided in Table–3.29.

Table – 3.29: Polluted River Stretches in Uttarakhand

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	BHELA	KASHIPUR TO RAJPURA TANDA	KASHIPUR	60
2.	DHELA	KASHIPUR TO GARHUWALA (THAKURDWARA)	KASHIPUR,	6

			THAKURDWARA	
3.	SUSWA	MOTHRWALA TO RAIWALA	DEHRADUN	20
4.	GANGA	HARIDWAR TO SULTANPUR ADAMPUR	RISHIKESH, HARIDWAR	10
5.	KOSI	SULTANPUR TO PATTIKALAN	SULTANPUR	6

3.30 Polluted River Stretches in West Bengal

Water Quality of rivers West Bengal is measured at 38 locations on 18 rivers and among them 35 locations is non-complying to the Water Quality Criteria with respect to BOD. These 35 locations are on 17 rivers. The names of 17 polluted rivers are; Barakar, Churni, Damodar, Dwarkeshwar, Dwarka, Ganga, Jalangi, Kalijani, Kansi, Karola, Mahananda, Mathabhanga, Mayurkashi, Rupnarayan, Silababti, Teesta and Vindhyadhari. These rivers are classified in priority class III, IV and V based on the level of BOD. The details of polluted river stretches are provided in Table–3.30.

Table – 3.30: Polluted River Stretches in West Bengal

S no.	River Name	Stretch Identified	Towns Identified	Approx length of the stretch (in Km)
1.	BARAKAR	KULTI TO ASANSOL	CHITTARANJAN, KULTI, BURNPUR, ASANSOL	20
2.	CHURNI	SANTIPUR TOWN TO MAJHADIA	RANAGHAT	30
3.	DAMODAR	DURGACHAKM TO DISHERGARH VILL	UDAYANARAYANPUR, BAGNAN, DURGAPUR, ASANSOL	200
4.	DWARAKESHWAR	BANKURA TO KUSHTIA	BANKURA	20
5.	DWARKA	TARAPITH TO SADHAK BAMDEB GHAT	CHANDIPUR, TARAPITH, BISHNUPUR, MARGRAM	50

6.	GANGA	TRIBENI TO DIAMOND HARBOUR	KANCHRAPARA, HOOGLY, NAIHATI, CHANDANNAGAR, BHATPARA, BARRACKPORE, BARANAGAR, KOLKATA, HOWRAH, BERHAMPORE, PALTA, DAKSHINESWAR, ULUBERIA	50
7.	JALANGI	LAAL DIGHI TO KRISHNA NAGAR	KRISHNANAGAR, CHAPRA	20
8.	KALJANI	BITALA TO ALIPURDWAR	HAMILTONGANJ, ALIPURDUAR	30
9.	KANSI	MIDNAPORE TO RAMNAGAR	MEDINIPUR	25
10.	KAROLA	JALPAIGURI TO THAKURER KAMAT	JALPAIGURI	50
11.	MAHANANDA	SILIGURI TO BINAGURI	SILIGURI	50
12.	MATHABHANGA	MADHUPUR TO GOBINDAPUR	MAJHDIA, KRISHNAGANJ, DURGAPUR, SWARNAKALI	80
13.	MAYURKASHI	SURI TO DURGAPUR	SURI, SAINTHIA	95
14.	RUPNARAYAN	KOLAGHAT TO BENAPUR	BAGNAN, KOLAGHAT, TAMLUK	20
15.	SILABATI	GHATAL TO NISCHINDIPUR	GHATAL, NISCHINDIPUR	25
16.	TEESTA	SILIGURI TO PAHARPUR	JALPAIGURI, SILIGURI	10
17.	VINDHADHARI	HAROA BRIDGE TO MALANCHA BURNING GHAT	HAROA, MINAKHAN, MALANCHA	15

The details of polluted locations along with the maximum observed BOD for the year 2009-2012 is placed at **Annexure – I** and the stretches are carved out on the river map (**Annexure – II**). List of 275 rivers identified as polluted is given at **Annexure III**.

CHAPTER – IV

CAUSITIVE FACTOR FOR POLLUTION OF RIVERS

4.1 Availability of Water Resources

Accelerating population growth and unsustainable consumption and production patterns have increased the demand for water. In the greater competition for water, ecosystems and biodiversity tend to be the losers. Activities that reduce biodiversity jeopardize economic development and human health through losses of useful materials, genetic stocks, and potential medicines. As ecosystems and biodiversity get degraded, their ability to lend resilience to the biosphere declines, and communities and human health suffer. The decline in the quantity and quality of water flow has reduced the productivity of many terrestrial, aquatic, and coastal zone ecosystems and led to loss of biodiversity. The degradation of ecosystems has devastated fishing, agriculture, grazing and undermined the survival potential of rural communities relying on these activities.

Against a national per capita annual availability of 2,208 m³ of water, the average availability in Brahmaputra and Barak is as high as 16,589 m³, while it is as low as 360 m³ in the Sabarmati basin. The per capita annual water availability for the rest of the country, excluding Brahmaputra and Barak basin works out to be about 1,583 m³.

Water availability less than 1,000 m³ per capita is considered by international agencies as indicating scarcity conditions. Cauvery, Pennar, Sabarmati, east and west flowing medium and minor rivers are some of the basins with scarcity conditions. In majority of river basins, current utilization is significantly high and is in the range of 50-95 per cent of utilizable surface resources. But, in rivers such as Narmada and Mahanadi, percentage utilization is only 23 and 34 per cent respectively. In several basins, there is also an over drawl of groundwater leading to lowering of groundwater Tables and even salt water incursions. If the average national per capita availability of 2,000 m³ is to be maintained, given the burgeoning population, the only river in North India with significant surplus water to meet future needs of the country is the Brahmaputra. In peninsular India, the Godavari, Brahmani, Mahanadi and Narmada, besides regions of Tapi and Tadri have surplus water. Inter-linking of rivers shall address the spatial challenge of water availability. Besides its questionable techno-economic feasibility, the associated ecological damages of river linking may be irreversible. While at the country level, there may not appear to be an immediate problem of water availability, several basins (e.g. Sabarmati) are already under severe stress and face scarcity situations. With increasing demands, the situation is only going to be aggravated unless appropriate basin level measures are attempted now.

4.2 Water Pollution

The key challenges to better management of the water quality in India are temporal and spatial variation of rainfall, uneven geographic distribution of surface water resources, persistent droughts, overuse of ground water and contamination, salinisation and water quality problems due to treated, partially treated and untreated wastewater from urban settlements, industrial establishments and runoff from irrigation sector besides poor management of municipal solid waste and animal dung in rural areas.

It is estimated that about 38,000 million litres per day (mld) of wastewater generated in the urban centres having population more than 50,000 in India (housing more than 70% of urban population) as on 2009. The municipal wastewater treatment capacity developed so far in India is about 11,000 mld accounting for 29% of wastewater generation in these two classes of urban centers. In view of population increase, demand of freshwater for all the uses will be unmanageable. It is estimated that the projected wastewater from urban centres at present may be about 57,000 mld and the rural India may also generate substantial volume of waste water in view of water supply plans for community supplies in rural areas. However, waste water management including development of treatment facilities are not addresses to that pace.

Most human activities whether domestic, agricultural or industrial have an impact on water and the ecosystems. World Health Organization statistics indicate that half of India's morbidity is water related. Water borne diseases can be, to a large extent, controlled by managing human consumption and production patterns. It is therefore pertinent to have an understanding of human activities, including water management initiatives, and their impacts on water and the environment.

4.2.1 Domestic Water Pollution

Waste management systems have not been able to keep pace with the huge volumes of organic and non-biodegradable wastes generated daily. As a consequence, garbage in most parts of India is unscientifically disposed and ultimately leads to increase in the pollutant load of surface and groundwater courses. On the other hand, the large population of the poor in India does not have much choice but to live off the natural resource base and pollute the environment in the process. They deforest for food, fuel, fodder and fibre and pollute the water sources on which they depend, since they cannot afford access to sanitation services. Domestic water use today, though a small fraction of the total water requirement, is under-priced which leads to a considerable waste of the precious resource and inadequate revenues for operation and maintenance. Low revenues result in deterioration of the supply infrastructure and further loss of the resource due to system inefficiencies. In most parts of the country, waste water from domestic sources is hardly treated, due to inadequate sanitation facilities. This waste water, containing highly organic pollutant load, finds its way into surface and groundwater courses, very often close to dense

pockets of human habitation from where further water is drawn for use. Considerable investments will be required to install sewage treatment systems in all the major cities and towns of the country.

4.2.2 Industrial Water Pollution

The Industrial sector accounts for about 8 per cent of the current water use. With rapid industrialization and urbanization, the water requirement for energy and industrial use is estimated to rise to about 18 per cent (191 bcm) of the total requirements in 2025. Poor environmental management systems, especially in industries such as thermal power stations, chemicals, metals and minerals, leather processing and sugar mills, have led to discharge of highly toxic and organic wastewater. This has resulted in pollution of the surface and groundwater sources from which water is also drawn for irrigation and domestic use. The enforcement of regulations regarding discharge of industrial wastewater and limits to extraction of groundwater needs to be considerably strengthened, while more incentives are required for promoting waste water reuse and recycling.

4.2.3 Agricultural Water Pollution

Two-thirds of India's farm production comes from one-third of its land which is irrigated. The rest is from rainfed areas that employ large populations. In order to meet the increasing demand for food and farm employment, India has to enhance productivity in both irrigated and rainfed areas. For the agricultural sector, water and electricity for irrigation are subsidized for political reasons. This leads to wasteful flood irrigation rather than adoption of more optimal practices such as sprinkler and drip irrigation. Cropping patterns and farming practices also do not necessarily encourage the judicious use of water. Conservative estimates indicate that the same quantity of irrigation water used today can irrigate double the current area with optimized irrigation and farming practices. With limited revenues and budgetary support, the state engineering departments are unable to operate and maintain the irrigation systems efficiently, leading to increasing deterioration of the structures and systems over time. Consequently, there are further water losses due to breaches and seepage, resulting in water logging and salinity. Water quality is further affected due to the overuse of chemical fertilizers and pesticides.

STATE-WISE POLLUTED RIVER STRETCHES AND PRIORITY CLASSES

RIVER NAME	STRETCH IDENTIFIED	BOD RANGE/ MAX VALUE	PRIORIT Y	TOWNS
ANDHRA PRADESH				
GODAVARI	RAYANPETA TO RAJAHMUNDRI	6.0	V	RAJAHMUNDRI, RAYANAPETA
HUNDRI	LAXMIPURAM TO JOHARPURAM (KURNOOL)	4.0	V	KURNOOL
KRISHNA	AMRAVATHI TO HAMSALA DEEVI	3.5-5.3	V	VIJAYWADA
TUNGABHADRA	MANTHRALAYAM TO BAVAPURAM	3.4-3.6	V	KURNOOL
PENNA	TADPATRI TO NELLORE	3.1-6.0	V	JAMMALAMADUGU, PRODDATUR, KADAPA
KUNDU	NANDYAL TO MADDURU	3.2	V	NANDYAL
ASSAM				
MORA BHARALI	TEZPUR TO UDMARI GAON	3.2	V	TEZPUR
BARAK	PANCHGRAM TO SILCHAR	4.5	V	BADARPUR, KANCHANPUR, SILCHAR, TARAPUR
BEKI	BARPETA ROAD TO JYOTI GAON	5.2	V	BARPETA
BHARALU	GUWAHATI TO CHILARAI NAGAR	50.0	I	SANTIPUR, ULUBARI
BHOGDOI	JORHAT TO DULIAGAON	3.3	V	JORHAT
BOGINADI	LAKHIMPUR TO DIBRUGARH	3.3	V	LAKHIMPUR
BRAHAMPUTRA	KHERGHAT TO DHUBRI	3.1-9.2	IV	GUWAHATI, DIBRUGARH, SIVASAGAR, JORHAT, TEZPUR, BARPETA, GOLPARACHAPAR
BURHIDIHING	MARGHERITA TO TINSUKIA	3.6-5.5	V	MARGHERITA, NAHARKATIA, DULIAJAN

DEEPAR BILL	DEEPAR BILL TO GUWAHATI	4.4	V	DEEPARBILL
DHANSIRI	GOLAGHAT TO KATHKETIA	3.2	V	GOLAGHAT
DIGBOI	LAKHIPATHE, RESERVE FOREST	6.5	IV	LAKHIPATHE
DISANG	DILLIGHAT TO GUNDAMGHAT	3.7-6.3	IV	TEZPUR
JIA BHARALI	SONITPUR TO PANIGAON	3.3	V	TEZPUR
JHANJI	JORHAT TO CHAWDANG	3.2	V	JHANZI
KALONG	NAGAON TO MORI KALONG	4.3	V	KACHALUKHOWA
KAPILI	NAGAON TO KAMPUR TOWN	3.9	V	KALAIKHOWA
KHARSANG	ASSAM-ARUNANCHAL BORDER TO LONGTOM-1	3.1	V	SINGMAO,ONGMAN,NEW LONGKEY
KOHORA	KOHORA TO MOHPARA	3.8	V	KAZIRANGA,BOGORIJURI
KUNDLI	SAPAKHOWA TO SADIA.	3.3	V	LAKHIMI PATHAR,SHANTIPUR
KUSHIARA	KARIMGANJ TO SARISA	4.7	V	ZAKIGANJ,KALACHERRA
MANAS	BARPETA TO CHILAPARA	3.5	v	JYOTIGAON,BADARPUR
PAGLDIA	NALBARI TO KHUDRA SANKARA	3.8	V	BIDYAPUR,SANTIPUR
PANCHNAI	ORANG TO BORSALA	3.6	V	PAKARIBARI,GARUBANDHA, KHANKHALA
RANGA NADI	DOIMUKH TO NAHARLAGUN	5.3	V	RONO BASTI, YUPIA,
SANKOSH	DHUBRI TO GOLAKGANJ	3.2	V	SANTI NAGAR, BIDYAPARA,
SONAI	SONAI TO DAKSHIN MOHANPUR	6.0	V	MAJHIRGRAM,KAPTANPUR
SUBANSIRI	GEREKAMUKH TO LAKHIMPUR	5.2	V	CHETIA GOAN,HINDU GAON,BHIMPARA

KATHAKAL	HAILAKANDI TO MATIJURI	3.1	V	SUDORSHONPUR, DAKHIN, SONAPUR
----------	------------------------	-----	---	-------------------------------

BIHAR

GANGA	BUXAR TO BHAGALPUR	7.8-27	II	BUXAR, PATNA, BHAGALPUR
HARBORA	SWADESHI SUGAR MILLS TO NARKATIAGANJ	3.4	V	NARKATIAGANJ
MANUSMAR	MOHANIAMNDALTO RIGA (SITAMARHI)	10.0	IV	SITAMARHI
RAM REKHA	HARINAGAR TO RAMNAGAR	4.8	V	RAMNAGAR, HARUNAGAR
SIRSIA	RUXOL TO KOIREA TOLA (RAXAUL)	12.0-15.0	III	RAXAUL

CHHATTISGARH

HASDEO	KORBA TO URG	3.2-3.6	V	RUMGARA, SONPURI, KORBA
KELO	RAIGARH TO KANAKTORA	3.2	V	RAIGARH
KHARON	BUNDRI TO RAIPUR	3.4	V	RAIPUR
MAHANADI	ARRANG TO SIHAWA	3.2-3.8	V	RAIPUR, NAWAPARA NAGAR, DHAMTARI, RUDRI, KANKER, RAJIM
SEONATH	SHIMGA TO BEMTA	3.9	V	SIMGA, BEMTA

DAMAN, DIU AND DADRA NAGAR HAVELI

DAMANGANGA	SILVASSA TO DAMAN JETTY, MOTI DAMAN	4-354	I	DAMAN, SILVASSA
------------	-------------------------------------	-------	---	-----------------

DELHI

YAMUNA	WAZIRABAD TO ASGARPUR	39-113	I	DELHI
--------	-----------------------	--------	---	-------

GOA

MANDOVI	MARCELA TO VOLVOI	3.9	V	MARCELA, VOLVOI
---------	-------------------	-----	---	-----------------

ASSONORA	ASSONORA TO SIRSAIM	7.0	IV	ASSONORA
BICHOLIM	BICHOLIM TO CURCHIREM	3.9	V	BICHOLIM
CHAPORA	PERNEM TO MORJIM	5.0	V	CHIKHLI, SIOLIM
KHANDEPAR	PONDA TO OPA	3.9	V	PONDA
MAPUSA	MAPUSA TO BRITONA	6.2	IV	MAPUSA
SAL	KHAREBAND TO MOBOR	3.2-10.6	III	MARGAO
VALVANT	SANKLI – BICHOLIM TO PORIEM	3.1	V	BICHOLIM

GUJARAT

MAHI	SEVALIA TO BAHADARPUR	3.1-8.0	IV	SEVALIYA, VADODARA
NARMADA	GARUDESHWAR TO BHARUCH	5.0	V	BOLAV, GARUDESHWAR, BHARUCH
AMBIKA	BILIMORA TO DEVDHA	4.0	V	NAVAPURA, GANDEVI
AMLAKHADI	PUNGUM TO BHARUCH	43-72.1	I	PUNGAM, GADKHOL
ANAS	DAHOD TO FATEHPURA	5.0	V	DAHOD
BALEHWAR KHADI	PANDESARA TO KAPLETHA	3.7	V	PANDESARA, UDHNA
BHADAR	JETPUR VILLAGE TO SARAN VILLAGE	11.0	III	UPLETA, DHORAJI, JETPUR
DAMANGANGA	KACHIGAON TO VAPI	5-7.8	IV	KANCHIGAM, VAPI
KAVERI	BILLIMORA TO SAI NATH NAGAR	4.0	V	BILIMORA
KHARI	LALI VILLAGE TO KASHIPURA	9.0	IV	UMIYAPURA
KIM	SAHOL BRIDGE TO HANSOL	3.4	V	SAHOL
KOLAK	KIKARLA TO SALVAV	6.2-10.7	III	KIKARLA, BAGWADA

PANAM	LUNAWADA TO THANA SAVALI	5.0	V	LUNAWADA
BHOGAVO	SURENDRANAGAR TO NANA KERALA	10.0	IV	SURENDRANAGAR
DHADAR	KHOTDA TO CHANDPURA	9.0	IV	KHOTDA
PURNA	NAVSARI TO MACHHAD	7.0	IV	NAVSARI, JALALPORE, VIRAVAL
SABARMATI	KHEROJ TO VAUTHA	4.0-46	I	GANDHINAGAR, AHMEDABAD
SHEDHI	DHAMOD TO KHEDA	15.0	III	DHAMOD
TAPI	KHADOD (BARDOLI) TO SURAT	3.1-9.0	IV	BARDOLI, UKAI, MANDVI, SAMPURA, KAMREJ, SURAT
TRIVENI	TRIVENI SANGAM TO BADALPARA	6.0	V	PRABHAS PATAN, VERAVAL

HARYANA

GHAGGAR	RORKI TO SIRSA	3.1-21	II	RORKI, SIRSA
YAMUNA	PANIPAT TO SONEPAT	4.0-7.0	IV	PANIPAT, SONIPAT, FARIDABAD, BALLABHGARH, PALWAL

HIMACHAL PRADESH

BEAS	KULLU TO DEHRAGOPIPUR	4-8.7	IV	SANOT, KULLU
TONS	KILLOR TO TILWARI	5.0	V	DANDA, HARIPUR
SIRSA	NALAGARH TO SOLAN	4.0-7.5	IV	SORI, RADYALI
SWAN	UNA TO SANTOKHGARH	9.0	IV	ARNIALA, PREMNAGAR
SUKHANA	SUKHNA TO PARWANOO	26-180	I	BHAGWANPURA, KISHANGARH
SUKETI KHAD	MANDI TO BEHNA	4.0	V	MANDI, SAMKHETAR, KARTAPUR
BINWA	PAPROLA TO BAIJNATH	4.1	V	KHATREHR
MARKANDA	KALA AMB TO NARAYANPUR	185.0	I	KALA AMB, OGLI

JAMMU & KASHMIR

BANGANGA	PONY SHED TO BATHING GHAT	4-4.8	V	KATRA
BASANTER	SAMBA TO CHAKMANGARAKWAL	3.6-8.0	IV	MANANUN,BALOUR,PAREI,BEDI,PALTH
CHENAB	JAL PATAN TO PARGAWAL	8.0	IV	AKHNOOR,MUTHI, PARGAWAL
CHUNT KOL	MAULANA AZAD BRIDGE TO KANIKADAL	5	V	SRINAGAR, FATEH KADAL, MAHARAJGANJ
DEWAK	GARIGARH TO UTTARBEHANI	6.3	IV	JAMMU, TRIKUTA NAGAR, CHAK RAKWALAN
GAWKADAL	GAWKADAL BRIDGE TO NOHATA	6	V	SRINAGAR, SHAHEED GANJ
JHELAM	CHATTABAL WEIR TO ANANTNAG	4.0-7.0	IV	SRINAGAR, KARAN NAGAR
LIDDER	SILICOM TO LIDDAR NALAH	4.6	V	ANANTNAG
TAWI	SURAJNAGAR TO BELICHARANA	3.4-6.5	IV	JAMMU, CHAK RAKWALAN

JHARKHAND

BOKARO	BILYOTARA TO JARANDI	4	V	BILYOTRA, GUMIA
DAMODAR	PHUSRO ROAD BDG TO TURIO	7.1	IV	PHUSRO, BHANDARIDAH, DHANBAD
JUMAR	KANKE DAM TO KADAL	5.2	V	RANCHI, MORABADI
KARO	LOHOJIMI TO BALAGODA	6	V	BALAGODA, LOHOJIMI
KOEL	BASIADAM TO REHLA	6.8	IV	RANCHI, DALTONGANJ
KOEL	DALTANGANJ TO REHLA	3.6-4.2	V	KANDI, BISRAMPUR, MAJHIAON
SANKH	KONGSERABASAR TO BOLBA	6	V	KUSUMDEGI, MACHHKATA
SUBARNAREKHA	HATIA DAM TO JAMSHEDPUR	3.2-8	IV	RANCHI, NAMKUM

KARNATAKA

ARKAVATHI	HALLI RESERVOIR TO KANAKAPURA TOWN	5.0-8.0	IV	BENGALURU, BHADRAVATHI
-----------	------------------------------------	---------	----	------------------------

BHADRA	HOLEHUNNUR TO BHADRAVATHI	6	V	CHIKKODI, KOPA
BHIMA	GHANAPUR TO YADGIR	3.8-5.0	V	JEVARGI
CAUVERY	RANGANATHITTU TO SATHYAMANGALAM BRIDGE	4	V	SRIRANGA PATNA
GHATPRABHA	GOKAK TO CHIGADOLLI	4	V	GOKAK
KABINI	NANJANAGUD TO HEJJIGE	5	V	BASAVANAPURA, CHIKKAIAHNACHATRA
KAGINA	SHAHABAD TO HONGUNTA	3.1-3.2	V	BHANKOOR
KALI	HASAN MAAD (WEST COAST PAPER MILL) TO BOMMANAHALLI RESERVOIR	4.3	V	DANDELI
KRISHNA	YADURWADI TO TINTINI BRIDGE	3.2-4.8	V	UGARKHURD, CHIKKODI, NARAYANPURA
LAKSHMANTIR THA	KATTEMALAVADI TO HUNSUR	4.0-5.0	V	UNDAVADI
MALPRBHA	KHANAPUR TO DHARWAD	3.4-4.6	V	M.K HUBLI, KADROLI
MANJIRA	BIDAR TO HUSSAIN NAGAR	3.5	V	NITTUR, CHAMBOL, BIDAR
SHIMSHA	YEDIYAR TO HALAGUR	4.5	V	THATTEKERE, MALLUR
TUNGABHADRA	HARIHAR TO KORLAHALLI	3.5-9.3	IV	ULLANUR, HARIHAR
TUNGHA	SHIVAMOGA TO KUDLI	6.7	IV	SHIVAMOGA

KERALA

CHITRAPUZHA	IRUMPANAM TO KARINGACHIRA	8	IV	CHITTETHUKARA
KADAMBAYAR	MANCKAKADAVU TO BRAHMAPURAM	4.4-8.0	IV	KAKKATTIKARA, THENGUMTHURUTHU
KALLAI	THEKEPURAM TO ARAKKINAR	6	V	KOZHICODE, MANANCHIRA

KARAMANA	MALEKKDU TO THIRUVALLAM	80	I	TRIKKANAPURAM
KEECHERI	PULIYANNOR TO KECHERY	3.8	V	THRISSUR
KUPPAM	THALIPARAMBA TO VELICHANGOOL	5.4	V	MARATHAKKAD, KUTTIYERI
MANIMALA	KALLOOPARA TO THONDRA	4.2-4.4	V	MALLAPPALLY, VAIPUR
NEELESWARAM	NAMBIARKAL DAM TO HOSDURG	3.3-3.8	V	PUTHUKAI
PERIYAR	ALWAYE-ELOOR TO KALAMASSERY	3.7-6.0	V	MUTTINAKAM, EDAMPAADAM
PULLUR	RAMNAGAR TO KANNOTH	3.1	V	KOTTAPARA,
PUZHACKAL	OLARIKKARA TO PUZHACKAL	5.4	V	PUTHURKARA, CHETTUPUZHA
THIRUR	NADUVILANGADI TO THALAKKADATHUR	4.4	V	CHEMBRA, THAZHEPALAM, MANGALAM THIRUTHUMMAL
UPPALA	POYYA TO MULINJA	3.3	V	MANJESHWAR, HOSABETTU

MADHYA PRADESH

BANJAR	MALANJKHAND TO TINGIPUR	3.6	V	MALANJKHAND, TINGIPUR
BETWA	MANDIDEEP TO VIDISHA	5.4-64	I	MANDIDEEP, VIDISHA, BHOPAL, RAISEN
BICHIA	SILPARI TO GADHAWA	5.8	V	REWA
CHAMBAL	NAGDA TO RAMPURA	3.1-50	I	NAGDA, RAMPURA
CHILLAR	SHAJAPUR TO MURADPURA	4.3	V	SHAJAPUR, DANSIPURA, MURADPURA
DENWA	DHUPGARH TO SARNI	18	III	DHUPGARH, SARNI
GOHAD	GOHAD DAM TO GORMI	3.6	V	BANIPURA, GOHAD, GORMI
GOUR	JABALPUR TO SALIWADA	3.8	V	JABALPUR
JAMMER	DHLOWAD TO RAOTI	4	V	RAOTI
KALISOT	MANDIDEEP TO SAMARDHA VILLAGE	6.4	IV	MANDIDEEP, BHOPAL
KHAN	KABIT KHEDI TO KHAJRANA	50-70	I	INDORE
KOLAR	SURAJNAGAR TO SHIRDIPURAM	14	III	INDORE
KSHIPRA	SIDDHAWAT TO TRIVENISANGAM	18-22	II	UJJAIN
KUNDA	KHARGONE TO KHEDI KHURD	4.2	V	KHARGONE
MALEI	JAORA TO BARAUDA	4.2	V	JAORA
NARMADA	MANDALA TO BHEDA GHAT SETHANI GHAT TO NEMAWAR	3.3-7.9	IV	NEMAWAR, JABALPUR, HOSHANGABAD
PARVATI	BATAWADA TO PILUKHEDI	3.2-3.9	V	BATAWADA, PILUKHEDI, NARSINGHGARH
SHIVNA	MANDSAUR TO MALAYA KHEDI	3.2	V	MANDSAUR

TAPI	NEPANAGAR TO BURHANPUR	3.8-4.0	V	NEPANAGAR, BURHANPUR
TONS	CHAKGHAT TO CHAPPAR	3.5	V	GARGATA, CHAKGHAT, CHHAPAR
WAINGAN GA	CHINDWARA TO BALAGHAT	3.8-4.0	I	CHHAPARA, BALAGHAT, JABALPUR, SEONI

MAHARASHTRA

WENA	KAWADGHAT TO HINDANGHAT	7.8-18.6	III	JAWADE, WANI
WAINGAN GA	TUMSA TO ASHTI	8.8-20.6	II	TUMSA, ASHTI, KANHAN, BRAHMAPURI, BHANDARA
GODAVARI	SOMESHWAR TEMPLE TO RAHED	4-40.0	I	SAYKHEDA, GANGAPUR, KAYGAON, PAITHAN, DHELGAON, NANDED, RAHER, NASHIK
BHIMA	VITHALWADI TO TAKLI	9.5-12.7	III	KOREGAON, PARGAON, NIRA, NARASINGPUR, TAKALI
KRISHNA	SHINDI TO KURUNDWAD	5.4-24.0	II	WAI, KARAD, URAN ISLAMPUR, SANGLI, SHIROI, KSHETRA MAHULI
ULHAS	KALYAN TO BADLAPUR	3.8-5.0	V	KHADAKPADA, ULHAS NAGAR, DOMBIVALI, KALYAN
KUNDALIK A	SALAV TO ROHA	4.6-29.0	II	SUNDARNAGAR, ASHTAMI, ROHA
TAPI	RAVER TO SHAHADA	9.0-18.0	III	NANDURBAR, BHUSAWAL, NANDURBAR
GIRNA	MALEGAON TO JALGAON	6.0-7.0	IV	GULSHANABAD, AGHAR
PANCHGA NGA	SHIROI TO KOLHAPUR	4.6-7.6	IV	SHIROI, ICHALKARANJI
NIRA	SANGAVI TO SHINDEWADI	8.1-14.6	III	SAKHARWADI, SAROLA, SHINDEWADI
BHATSA	SHAHAPUR TO BHADANE	5.8-6.6	IV	SHAHAPUR, BHATSA, BHADANE
RANGAVA LI	TINTEMBA TO NAVAPUR	12	III	NAVAPUR, DHAJ, UCHCHHAL

INDRAYAN I	MOSHIGAON TO ALANDIGAON	8.1-9.2	III	DEHU, MOSHI, ALANDI, PIMPRI- CHINCHWAD
CHANDRA BHAGA	PANDHARPUR TO SHEGAON DHUMALA	8.4-10.6	III	PANDHARPUR, NAGPUR, AMRAVATI
VASHISTI	KHERDI TO DALVATNE	3.2-4.8	V	KHERDI,DALVATNE,CHIPLUN
MITHI	POWAI TO DHARAVI	170	I	MUMBAI
KANHAN	BHANDARA TO NAGPUR	9.6-22	II	NAGPUR, KHANDALA, BHANDARA
KOYNA	KARAD TO PAPDARDE	7.8	IV	KARAD,PATAN,PADARDE,TAMBAVE
AMBA	BENSE TO ROHA	5	V	POYNAD, BENSE, ROHA
AMRAVATI	KOPARLI TO BETWAD	14	III	KOPARLI, DONDAICHA
BINDUSAR A	SWARAJ NAGAR TO SNEHNAGAR	8	IV	SWARAJ NAGAR, BEED, KADAMWADI, MOMINPURA
DARNA	IGATPURI TO SANSARI	4.0-8.0	IV	NASHIK,IGATPURI,BHAGUR
GHOD	ANNAPUR TO SHISHUR	10.5	III	ANNAPUR, SHIRUR, PUNE, KATHAPUR, FAKATE
GOMAI	LONKHEDA TO SHAHDA	10	IV	LONKHEDA,SHAHDA,DAMARKHEDA
HIWARA	PACHORA TO NIMBORA	4	V	PACHORA, NIMBORA
KAN	KAVATHE TO SAKARI	8	IV	KAVATHE, SAKARI
MANJARA	LATUR TO NANDED BRIDGE	6.5	IV	LATUR, WANJARKHEDA, SARSA
MOR	JALGAON TO AMODA	4	V	TAMBAPURA,FAIZPUR,AMODA,MAROOOL,NHAVI
MORNA	AKOLA TO TAKALIJALAM	34	I	AKOLA
MULA	BOPODI TO AUNDH GAON	13.5-16.5	III	BOPODI,AUNDH
MULA- MUTHA	THEUR TO MUNDHWA BRIDGE	16	III	THEUR,MUNDHWA

MUTHA	SHIVAJI NAGAR TO KHADAKWASLA DAM	18.2	III	SHIVAJI NAGAR,SHIVANE
PANZARA	VARKHEDE TO DHULE	6	V	VARKHEDE,DHULE,KUNDANE,
PATALGAN GA	KHADEPADA TO KOPOLI	4.0-4.4	V	KHOPOLI,KHARPADA,KHALAPUR,APTA
PAWNA	DAPODI TO RAVET	6.5-20.0	III	DAPODI, RAVET, KASARWADI, PIMPRI-CHINCHWAD, LONAVALA, DEHU, LAVALE
PEDHI	NARAYANPUR TO BHATKULI	14	III	BHATKULI,NARAYANPUR,AMRAVATI,WADWAD
PELHAR	PELHAR DAM TO GOLANI NAKA	5	V	GOLANI NAKA, VASAI, THANE
PENGANG A	MEHKAR TO UMARKHED	8.7-12.6	III	UMARKHED,JAGAPUR,MEHKAR,GARKHEDA,JUMDA,RITHA D
PURNA	DHUPESHWAR TO ASEGAON	14-26.0	II	AMRAVATI, ACHALPUR,SHINGNAPUR,HIWARA,BAJITPUR,MARKANDA, SONARKEHDA
SAVITRI	DADLI TO MUTHAVALI	4.4-15	III	DADLI,MUTHAVALI,RAJEWADI,KEMBURLI
SINA	SOLAPUR TO BANKALAGI	10.4	III	SOLAPUR,BANKALAGIWADWAL,LAMBOTI,RIDHORE,MUN GASHI
SURYA	DHAMNI DAM TO PALGHAR	4.6-8.0	IV	DHARAMPUR,HARANWALI,PALGHAR
URMODI	DHANGARWADI TO NAGTHANE	9.5	IV	NAGTHANE,DHANGARWADI,VECHALE,UPALI,PARALI (SAJJANGAD)
VAITRANA	GANDHRE TO SARASHI	6	V	GANDHRE, SARASHI,PIMPROLI,KOYNA
VEL	NHAVARE TO SHIKARPUR	11	III	SHIKRAPUR,MUKHAI,PARHADWADI,KANHERSAR
VENNA	MAHABALESHWAR TO MAHULI	8.6	IV	MAHULI,VARYE,SATARA
WAGHUR	SUNASGAON TO SAKEGAON	4	V	NASIRABAD,BHUSAWAL

WARDHA	GHUGHUS TO RAJURA	8.2-31.0	I	GHUGUS, RAJURA, BALHARSHAH, CHANDRAPUR
--------	-------------------	----------	---	--

MANIPUR

BARAK	TAMENGLONG TO SENAPATI	3.6-5.7	V	KARONG, SENAPATI
IMPHAL	KANGLA MOAT TO SAMUROU	3.6-12.3	III	IMPHAL
IRIL	KANGLA SIPHAI TO UKHRUL	5.1-6.2	IV	UKHRUL, IMPHAL
KHUGA	KHUGA LAKE TO CHURACHANDPUR	3.1	V	GELJANG, MATA, CHURACHANDPUR
KHUJAIRO K	MOREH TO MAOJANG	4.3	V	MOREH
LOKCHAO	BISHNUPUR TO LOKTAK LAKE	4.5	V	BISHNUPUR
MAHA	MANTRI PANTHA TO CHANDEL	6.7	IV	CHANDEL
MANIPUR	SEKMAIJAN TO THOUBAL	3.3-4.7	V	BISHNUPUR, THOUBAL, SEKMAIJAN
NAMBUL	SINGDA DAM TO BISHNUPUR	4.3-23.7	II	SENAPATI, IMPHAL, BISHNUPUR
SEKMAI	SEKMAI DAM TO KAKCHING, THOUBAL	6.4	IV	SEKMAI
THOUBAL	SHONG KONG TO PHADOM	4.3-5.3	V	YAIRIPOK, PHADOM, UKHRUL
WANGJING	WANGJING TO HEIROK	4.1-4.3	V	WANGJING, HEIROK

MEGHALAYA

BUGI	SONGMAGIRI TO BUGI	10	IV	DALU, SONGMAGIRI
KYN Shi	CHINTUSORA TO RANIKOR	3.5	V	CHINTUSORA, RANIKOR
KYRHUKH LA	SUTNGA TO KHLIERIAT	10.8	III	SUTNGA, KHLIERIAT
LUKHA	MYNDIHATI TO SHYMPLONG	6	V	KHLIEHRIAT
MYNTDU	JOWAI TO PAMHADEM	3.1	V	JOWAI

NONBAH	NANGSTOIN TO WAHRIAT	4	V	NONGSTOIN
UMKHRAH	MAWLAI TO SHILLONG	26-100	I	MAWLAI-MAWLONG, SHILLONG
UMSHYRPI	UMSHYRPI BRIDGE TO DHANKETI	80-95	I	SHILLONG
UMTREW	BYRNIHAT TO MORANG DALA	8.2	IV	BYRNIHAT
WAHBLEI	SHDADDKHAR, WEST KHASI HILLS TO RANIKOR	5.6	V	SHDADDKHAR

NAGALAND

CHATHE	MEDZIPHEMA TO, DIMAPUR	9	IV	MEDZIPHEMA, CHUMUKEDIMA, DIMAPUR
DHANSIRI	CHECK GATE TO DIPHU BDG	9.0-22.0	II	DIMAPUR
DZU	KOHIMA TO DZUKO VALLEY	10	IV	KOHIMA

ORISSA

BAITRANI	JAJPUR-KUAKHIA RD TO DHAMRA	3.2-3.4	V	JAJPUR
BRAHAMANI	ROURKELA TO BIRITOL	3.6-7.0	IV	ROURKELA, BANKI, TALCHER TOWN, BIRITOL
BUDHABALNAGA	MAHULIA TO BARIPADA	22	II	BARIPADA
DAYA	BHUBANESWAR TO BARAGARH	4.1	V	BHUBANESHWAR
KATHAJODI	CUTTACK TO URALI	4.4	V	CUTTACK, URALI
KOEL	DALKI TO PARLIPOS	12	III	DALKI
KUAKHAI	URALI TO BHUBANESWAR	3.4-6.0	V	BHUBANESHWAR
MAHANADI	SAMBALPUR TO PARADEEP	3.7-9.6	IV	SAMBALPUR, CUTTACK, PARADEEP
NAGAVALLI	JAYKAYPUR TO RAYAGADA	3.7-16	III	JAYKAYPUR, RAYAGADA
RUSHIKULYA	PRATAPPUR TO GANJAM	3.3	V	ASKA, PITTAL, PURUSOTTAMPUR, GANJAM
SERUA	KHANDAETA TO SANKHATRASA	3.6	V	KHANDAETA
VANSADHARA	GUNUPUR TO BATHILI	4	V	GUNUPUR

PUNJAB

GHAGGAR	SARDULGARH TO MUBARAKPUR	12.0-43.0	I	SARDULGARH
SATLUJ	RUPNAGAR TO HARIKA BRIDGE	3.5-27	II	RUPNAGAR, LUDHIANA, JALANDHAR, PHAGWARA

RAJASTHAN

BANAS	ALONG BISALPUR DAM, SWAROOPGANJ, NEWTA DAM	4.2-39.9	I	BISALPUR, SIROHI, SWAROOPGANJ, TONK, BHILWARA
CHAMBAL	SAWAIMADHOPUR TO KOTA	3.5-4.1	V	SAWAIMADHOPUR, KOTA
CHAPPI	CHHAPI DAM, JHALAWAR TO CHHAPIHERA	4.8	V	CHHAPIHERA, THONAWAD, ARNIA, METHOON, JHALAWAR

GHAGGAR	SUREWALA TO HANUMANGARH	4.6	V	HANUMANGARH
KALI SINDH	BAROD TO GADEPAN	7.7-26.9	II	BORKHERA, BALDARA
PARVATI	KHATOLI, KOTA TO TODRA	15.4	III	MOHAMMADPUR, KHATOLI
JAWAI	JAWAI DAM SENA TO GALTHANI	3.4	V	SENA, GALTHANI
UJAD	MORI (BHIM SAGAR DAM) TO ANGHORA	3.9	V	MORI

SIKKIM

DIKCHU	NAMPONG TO DIKCHU	3.4	V	DIKCHU
MANEY KHOLA	ADAMPOOL TO BURTUKK	3.8-4.2	V	ADAMPOOL
RANGIT	DAM SITE (NHPC) TO TREVENI	4.0-4.2	V	LEGSHP, JORETHANG, TRIVENI
RANICHU	NAMLI TO SINGTAM	4.5	V	RANIPOOL, NAMLI, SINGTAM, GANGTOK
TEESTA	MELLI TO CHUNGTHANG	3.4-4.5	V	MELLI, RANGPO

TAMIL NADU

BHAVANI	SIRUMUGAI TO KALINGARAYAN	3.9-115	I	SIRUMUGAI, SATHYAMAGALAM, BHAVANI
CAUVERY	METTUR TO MAYILADUTHURAI	3.8-9.3	I	METTUR, BHAVANI, KOMRA, VAIRAPALAYAM, ERODE, VELUR, PUGALUR, NAMAKKAL, TIRUCHIRAPPALLI
PALAR	VANIYAMBADI TO MINNUR	3.2-21.9	II	VANIYAMBADI, VELLORE
SARABAN GA	THATHAYAMPATTI TO T.KONAGAPADI	4	V	THATHAYAMPATTI, OMALUR, T.KONAGAPADI
TAMBIRAP ANI	PAPPANKULAM TO ARUMUGANERI	126	I	PAPPANKULAM, TIRUNELVELI, SRIVAIKUNTAM
THIRUMAN IMUTHAR	SALEM TO PAPPARAPATTI	67	I	SALEM
VASISTA	MANIVILUNDHAN TO THIYAGANUR	500	I	MANIVILUNDHAN, THALAIVASAL, THIYAGANUR

TELANGANA

GODAVARI	BASAR TO KHAMMAM	3.6-26	II	BASAR, MANCHERIAL, RAMAGUNDAM, MANTHAN, KAMALAPUR, BOORGAMPAHAD
KRISHNA	THANGADIGI TO WADAPALLY	6.0-2.4	II	THANGADIGI, GUNTUR
MANJEERA	GOWDICHARLA TO NAKKAVAGU	3.2-4.6	V	GOWDICHARLA
MUSI	HYDRABAD TO NALGONDA	8.6-165	I	HYDERABAD, RANGAREDDY, NALGONDA
NAKKAVAGU	GANDILACHAPET TO SEVALAL THANDA	64	I	MEDAK, BACHUGUDAM
SABARI	KHAMMAM TO KUNNAPURAM	3.7	I	KHAMMAM
MANER	WARANGAL TO SOMNAPALLI	25-27	II	WARANGAL, KARIMNAGAR

TRIPURA

GUMTI	TELKAJILA TO AMARPUR	4.5	V	UDAIPUR, BAMPUR, AMARPUR
HAORA	AGARTALA TO BISHRAMGANJ	4.8	V	AGARTALA

UTTAR PRADESH

BETWA	HAMIRPUR TO WAGPURA	3.3	V	HAMIRPUR, JHANSI
GHAGHARA	BARHALGANJ TO DEORIA	3.4-3.6	V	AYODHYA, TANDA, DEORIA
GOMTI	SITAPUR TO VARANASI	3.7-11	III	SITAPUR, LUCKNOW, SULTANPUR
HINDON	SAHARANPUR TO GHAZIABAD	24-80	I	SAHARANPUR, MUZAFFARNAGAR, MEERUT, GHAZIABAD
KALINADI	MUZAFFAR NAGARTO GULAOTHI TOWN	4-369	I	MEERUT, HAPUR, GULAOTHI, BULANDSHAHR
RAMGANGA	MURADABAD TO KANNAUJ	6.8	IV	MORADABAD, BAREILLY, FARRUKHABAD
RAPTI	DOMINGARH TO RAJGHAT	3.4-3.8	V	GORAKHPUR

RIHAND	RENUKUT TO PIPARI	3.3-7.2	IV	OBRA, RENUKOOT, PIPARI
SAI	UNNAO TO JAUNPUR	3.5-3.7	V	RAEBARELI, BELA PRATAPGARH, JAUNPUR
SARYU	AYODHYA TO ELAFATGANJ	3.2	V	FAIZABAD, AYODHYA
GANGA	KANNAUJ TO VARANASI	3.8-16.9	III	KANNAUJ, KANPUR, ALLAHABAD, MIRZAPUR, VARANASI
YAMUNA	ASGARPUR TO ETAWAH SHAHPUR TO ALLAHABAD (BALUA GHAT)	3.8-41	I	GAUTAM BUDDHA NAGAR (NOIDA & GREATER NOIDA), VRINDAVAN, MATHURA, AGRA, SHAHPUR
KOSI	AJEETPUR TO CHAMRAUL	4.0	V	AJEETPUR, RAMPUR

UTTARAKHAND

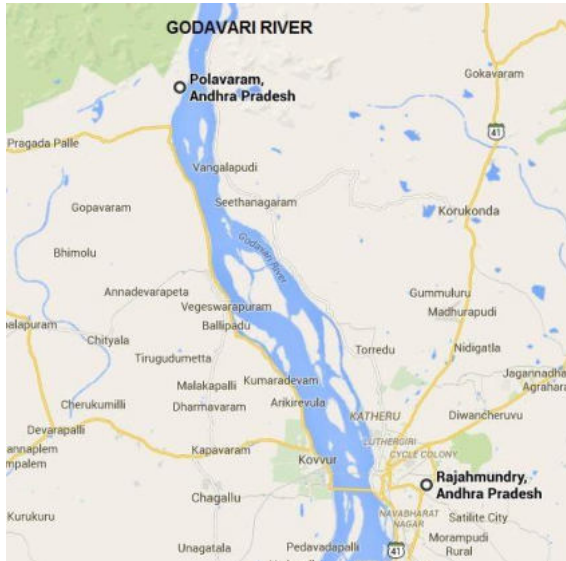
BHELA	KASHIPUR TO RAJPURA ATNDA	60-74	I	KASHIPUR
DHELA	KASHIPUR TO GARHUWALA, THAKURDWARA	58-62	I	KASHIPUR, THAKURDWARA
SUSWA	MOTHRWALA TO RAIWALA	46	I	DEHRADUN
GANGA	HARIDWAR TO SULTANPUR	4.2-5.8	V	RISHIKESH, HARIDWAR
KOSI	SULTANPUR TO PATTIKALAN	4.0-4.5	V	SULTANPUR

WEST BENGAL

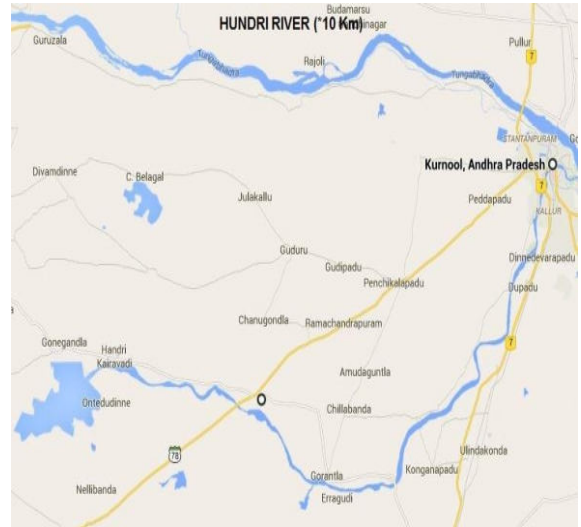
BARAKAR	KULTI TO ASANSOL	4.6	V	CHITTARANJAN, KULTI, BURNPUR, ASANSOL
CHURNI	SANTIPUR TOWN TO MAJHADIA	11.7	III	RANAGHAT
DAMODAR	DURGACHAKM TO DISHERGARH	3.2-8.0	IV	UDAYANARAYANPUR, BAGNAN, DURGAPUR, ASANSOL
DWARAKE SHWAR	BANKURA TO KUSHTIA	4.5	V	BANKURA
DWARKA	TARAPITH TO SADHAK BAMDEB GHAT	10.8-19.5	III	CHANDIPUR, TARAPITH, BISHNUPUR, MARGRAM
GANGA	TRIBENI TO DIAMOND HARBOUR	3.1-5.8	V	KANCHRAPARA, HOOGHLY, NAIHATI, CHANDANNAGAR, BHATPARA, BARRACKPORE, BARANAGAR, KOLKATA, HOWRAH, ,BERHAMPORE, PALTA, DAKSHINESWAR, ULUBERIA
JALANGI	LAAL DIGHI TO KRISHNA NAGAR	7.3	IV	KRISHNANAGAR, CHAPRA
KALJANI	BITALA TO ALIPURDWAR	5.4	V	HAMILTONGANJ, ALIPURDUAR
KANSI	MIDNAPORE TO RAMNAGAR	4.3	V	MEDINIPUR
KAROLA	JALPAIGURI TO THAKURER KAMAT	3.6	V	JALPAIGURI
MAHANAN DA	SILIGURI TO BINAGURI	5.2-5.7	V	SILIGURI
MATHABH ANGA	MADHUPUR TO GOBINDAPUR	19.8	III	MAJHDIA, KRISHNAGANJ, DURGAPUR, SWARNAKALI
MAYURKA SHI	SURI TO DURGAPUR	4.6	V	SURI, SAINTHIA
RUPNARA YAN	KOLAGHAT TO BENAPUR	5.1	V	BAGNAN, KOLAGHAT, TAMLUK
SILABATI	GHATAL TO NISCHINDIPUR	3.4	V	GHATAL, NISCHINDIPUR
TEESTA	SILIGURI TO PAHARPUR	3.6	V	JALPAIGURI, SILIGURI
VINDHADH ARI	HAROA BRIDGE TO MALANCHA BURNING GHAT	10.1-11.8	III	HAROA, MINAKHAN, MALANCHA

STATE-WISE POLLUTED RIVER STRETCHES-DIGITAL MAPS

Polluted River Stretches in Andhra Pradesh



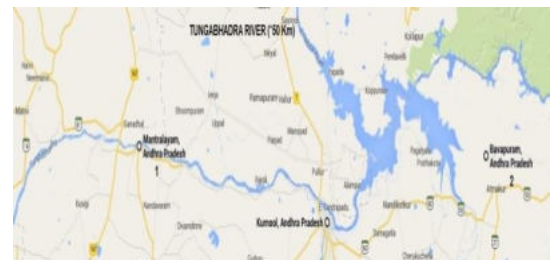
RIVER GODAVARI FROM RAYANPETA TO RAJAHMUNDRI



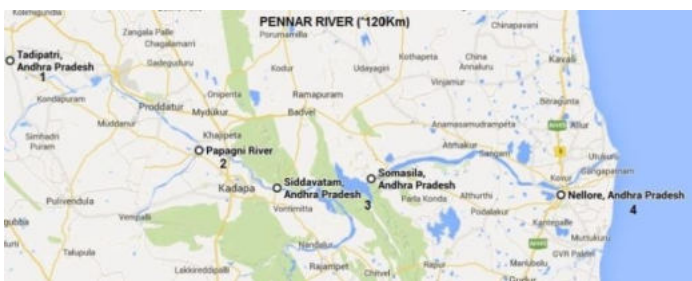
RIVER HUNDRI FROM LAXMIPURAM TO JOHARPURAM (KURNOOL)



RIVER KRISHNA FROM AMRAVATHI TO HAMSALA DEEVI



RIVER TUNGABHADRA FROM MANTHRALAYAM TO BAVAPURAM



RIVER PENNAR FROM TADPATRI TO NELLORE



RIVER KUNDU FROM NANDYAL TO MADDURU

Polluted River Stretches in Assam



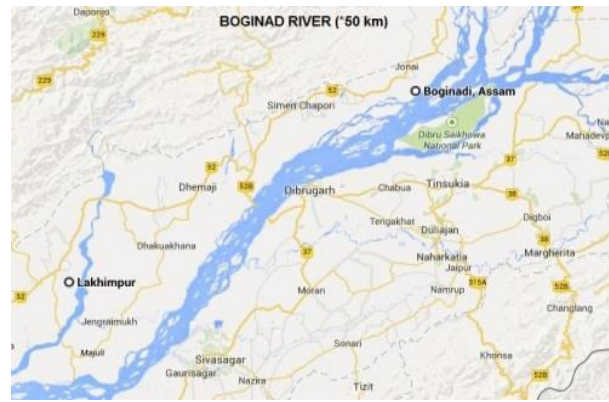
RIVER MORA BHARALI FROM TEZPUR TO UDMARI GAON



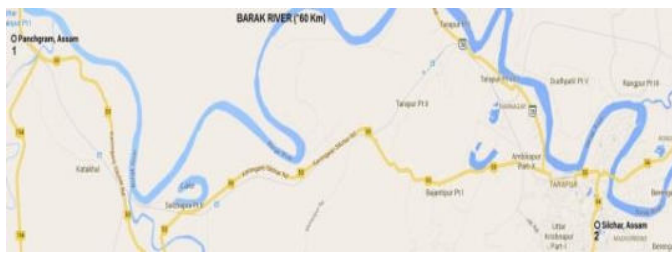
RIVER BHARALU FROM GUWAHATI TO CHILARAI NAGAR



RIVER BEKI FROM BARPETA ROAD TO JYOTI GAON



RIVER BOGINADI FROM LAKHIMPUR TO DIBRUGARH



RIVER BARAK FROM PANCHGRAM TO SILCHAR



RIVER BHOGDOI FROM JOHRAT TO DULIAGAON



RIVER BRAHMAPUTRA FROM KHERGHAT TO DHubRI



RIVER BURDIDIHING FROM MARGHERITA TO TINSUKIA



RIVER DEEPAR BILL FROM DEEPAR BILL TO GUWAHATI



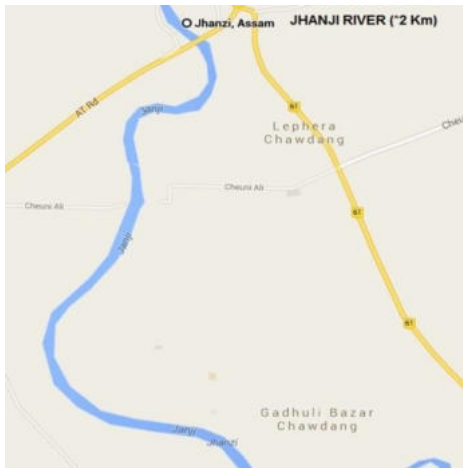
RIVER DHANSIRI FROM GOLAGHAT TO KATHKETIA



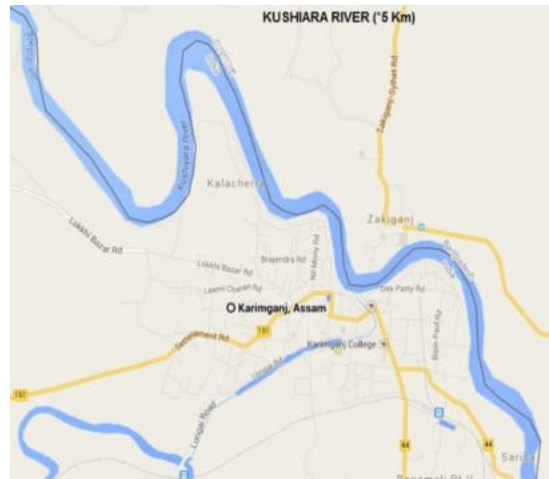
RIVER DISANG FROM DILLIGHAT TO GUNDAMGHAT



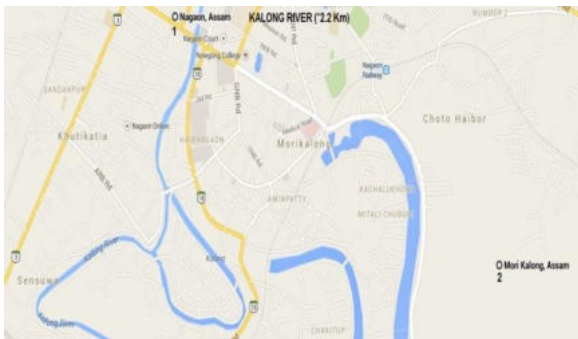
RIVER JIA BHARALI FROM SONITPUR TO PANIGAON



RIVER JHANJI FROM JORHAT TO CHAWDANG



RIVER KUSHIARA FROM KARIMGANJ TO SARISA



RIVER KALONG FROM NAGAON TO MORI KALONG



RIVER KOHORA FROM KOHORA TO MOHPARA



RIVER KAPILI FROM NAGAON TO KAMPUR TOWN



RIVER KHARSANG FROM ASSAM-ARUNACHAL BORDER TO LONGTOM-1



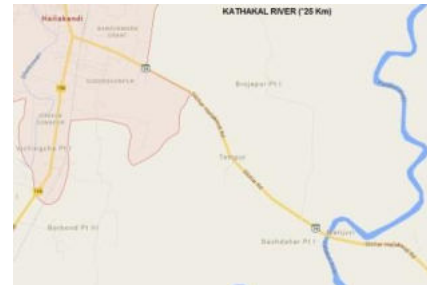
RIVER KUNDLI FROM SAPAKHOWA TO SADIA



RIVER MANAS FROM BARPETA TO CHILAPARA



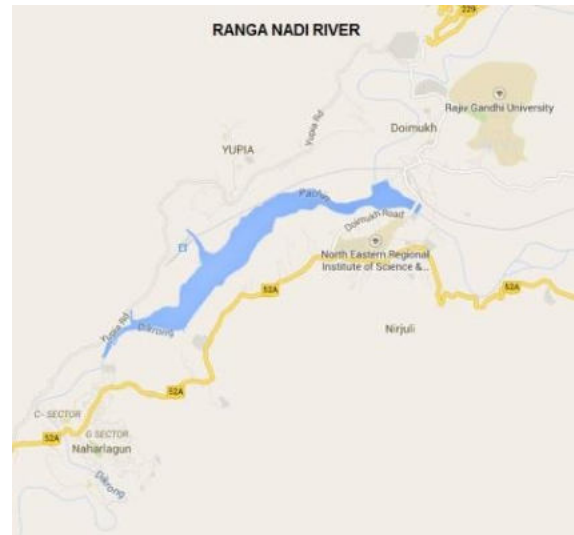
RIVER PAGLDIA FROM NALBARI TO KHUDRA SANKARA



RIVER KATHAKAL FROM HAILAKANDI TO MATIJURI



RIVER PANCHNAI FROM ORANG TO BORSALA



RIVER RANGANADI FROM DOIMUKH TO NAHARLAGUN



RIVER SANKOSH DHUBRI TO GOLAKGANJ



RIVER SONAI FROM SONAI TO DAKSHIN MOHANPUR

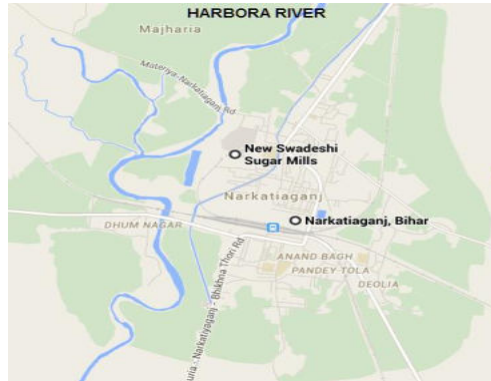


SUBANSIRI RIVER FROM GEREKAMUKH TO LAKHIMPUR

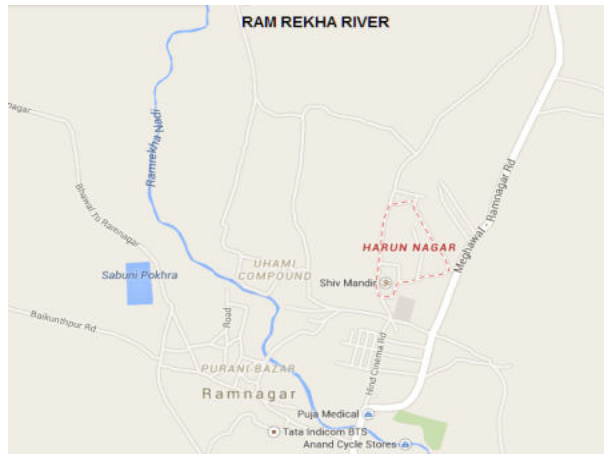
Polluted River Stretches in Bihar



RIVER GANGA FROM BUXAR TO BHAGALPUR



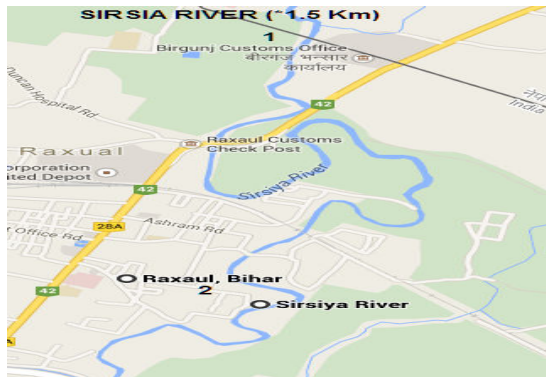
RIVER HARBORA FROM SWADESHI SUGAR MILLS TO NARKATIAGANJ



RIVER RAM REKHA HARINAGAR TO RAMNAGAR



RIVER MANUSMAR FROM MOHANIAMNDAL TO RIGA (SITAMARHI)

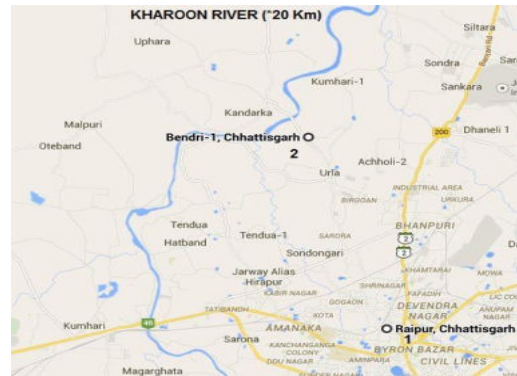


RIVER SIRSIA FROM RUXOL TO KOIREA TOLA (RAXAUL)

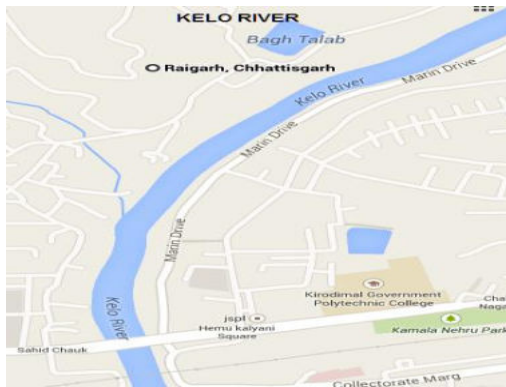
Polluted River Stretches in Chhattisgarh



RIVER MAHANADI FROM ARRANG TO SIHAWA



RIVER KHARON FROM BUNDRI TO RAIPUR



RIVER KELO FROM RAIGARH TO KANAKTORA

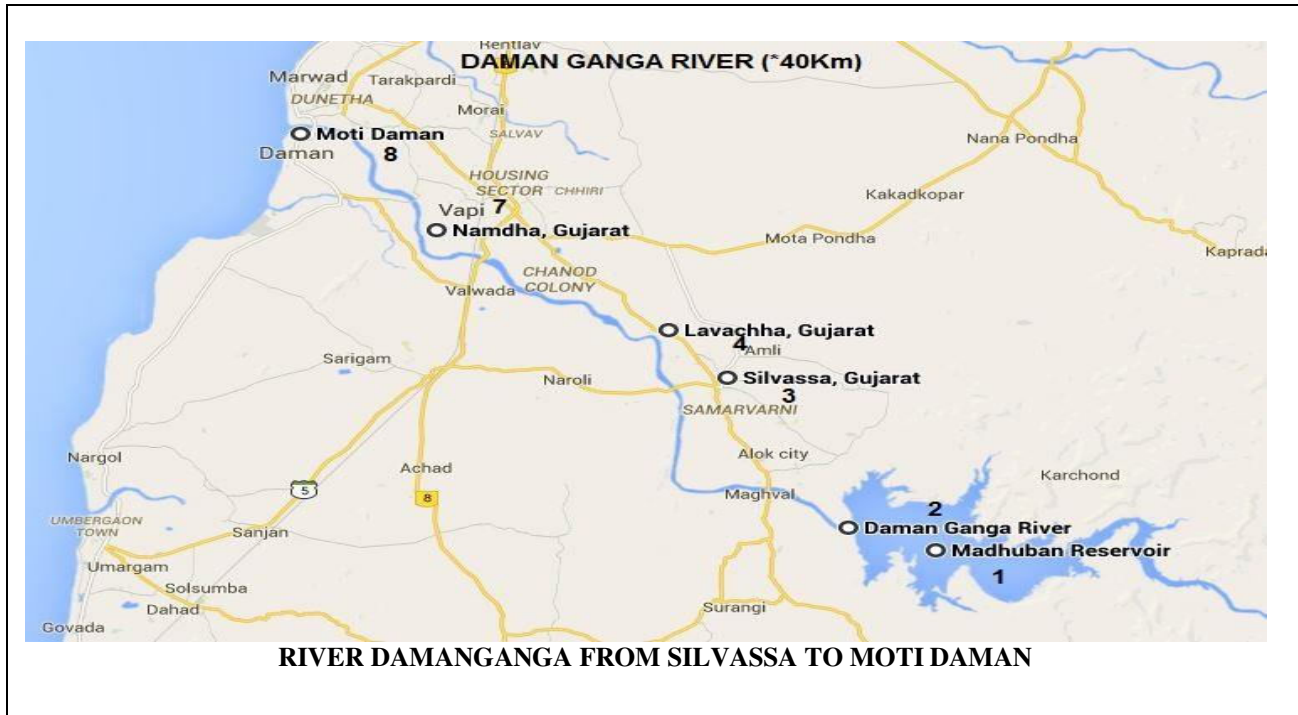


RIVER SEONATH FROM SHIMGGA TO BEMTA

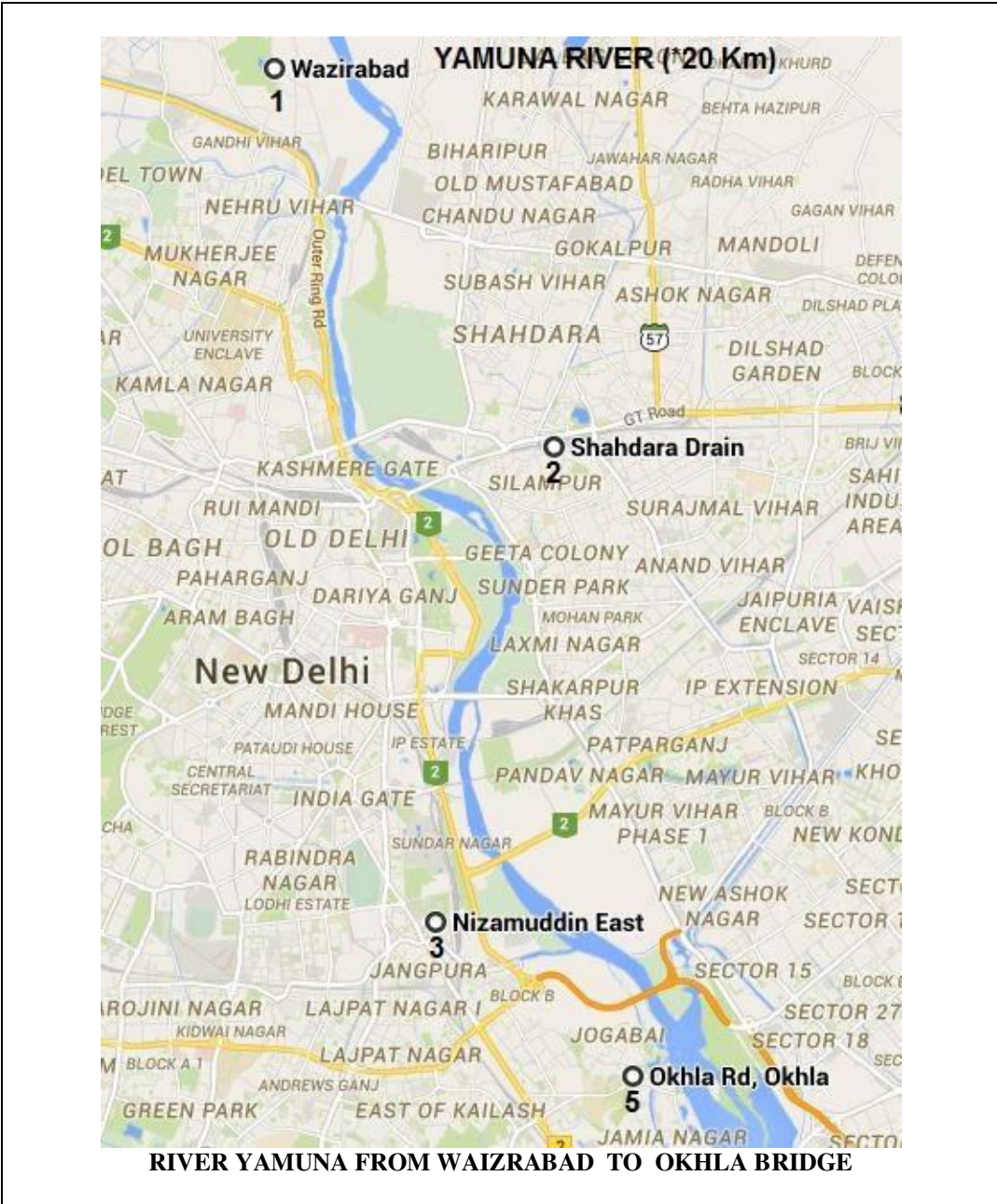


RIVER HASDEO FROM KORBA TO URGA

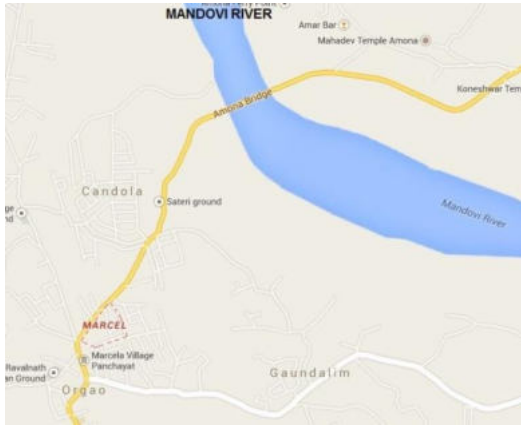
Polluted River Stretches in Daman



Polluted River Stretches in Delhi



Polluted River Stretches in Goa



RIVER MANDOVI FROM MARCELA TO VOLVOI



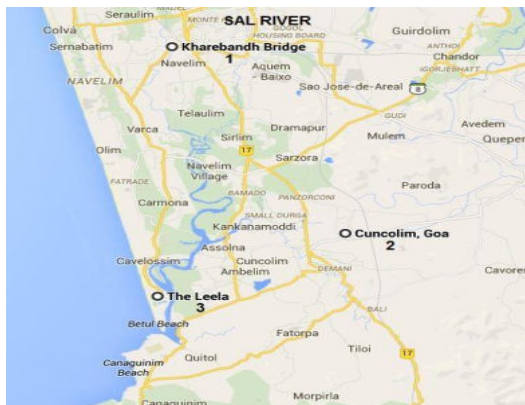
RIVER VALVANT FROM SANKLI – BICHOLIM TO PORIEM



RIVER ASSONORA FROM ASSONORA TO SIRSAIM



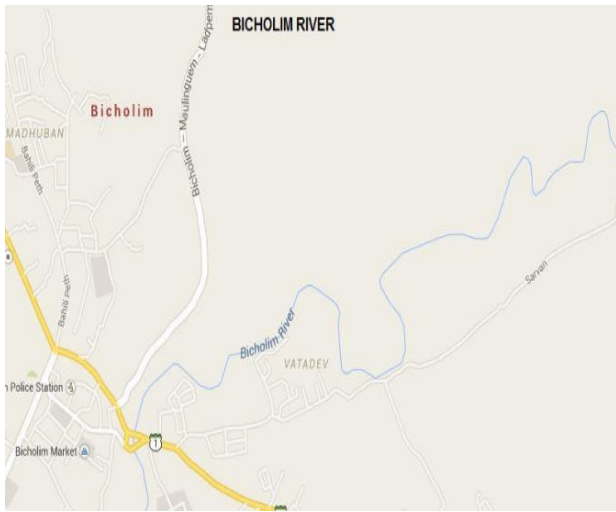
RIVER KHANDEPAR FROM PONDA TO OPA



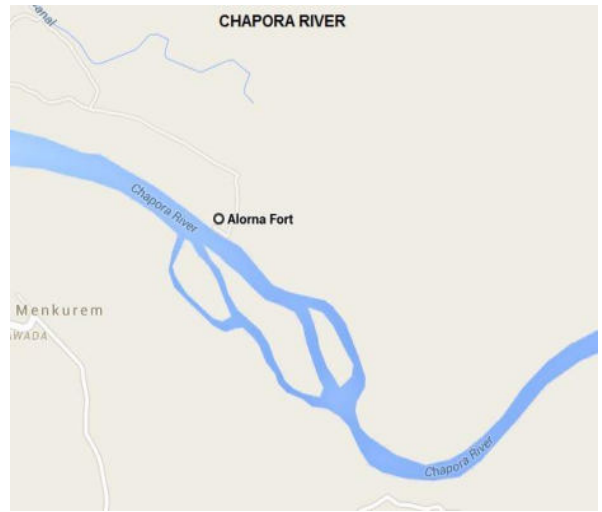
RIVER SAL FROM KHAREBANDH TO MOBOR



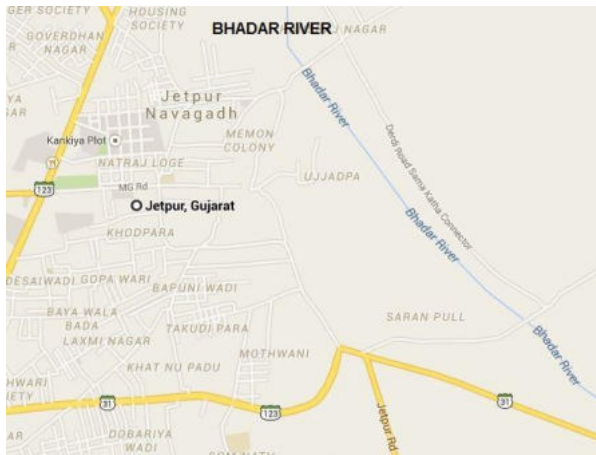
RIVER MAPUSA FROM MAPUSA TO BRITONA



RIVER BICHOLIM FROM BICHOLIM TO CURCHIREM



RIVER CHAPORA FROM PERNEM TO MORJIM



RIVER BHADAR FROM JETPUR VILLAGE TO SARAN VILLAGE



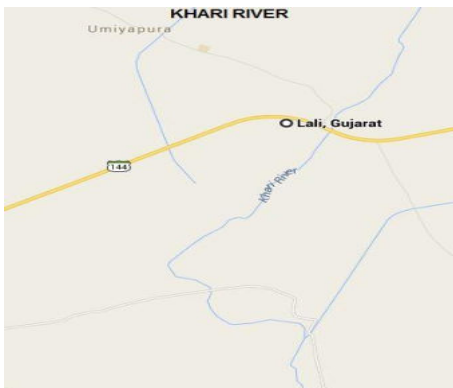
RIVER KAVERI FROM BILLIMORA TO SAI NATH NAGAR



RIVER DAMANGANGA FROM KACHIGAON TO VAPI



RIVER KIM FROM SAHOL BRIDGE TO HANSOL



RIVER KHARI FROM LALI VILLAGE TO KASHIPURA



RIVER KOLAK FROM KIKARLA TO SALVAV



RIVER PANAM FROM LUNAWADA TO THANA SAVALI



RIVER DHADHAR FROM KHOTDA TO CHANDPURA



RIVER BHOGAVO FROM SURENDRANAGAR TO NANA KERALA



RIVER PURNA FROM NAVSARI TO MACHHAD



RIVER SAMBARMATI FROM KHEROJ TO VAUTHA



RIVER SHEDHI FROM DHAMOD TO KHEDA

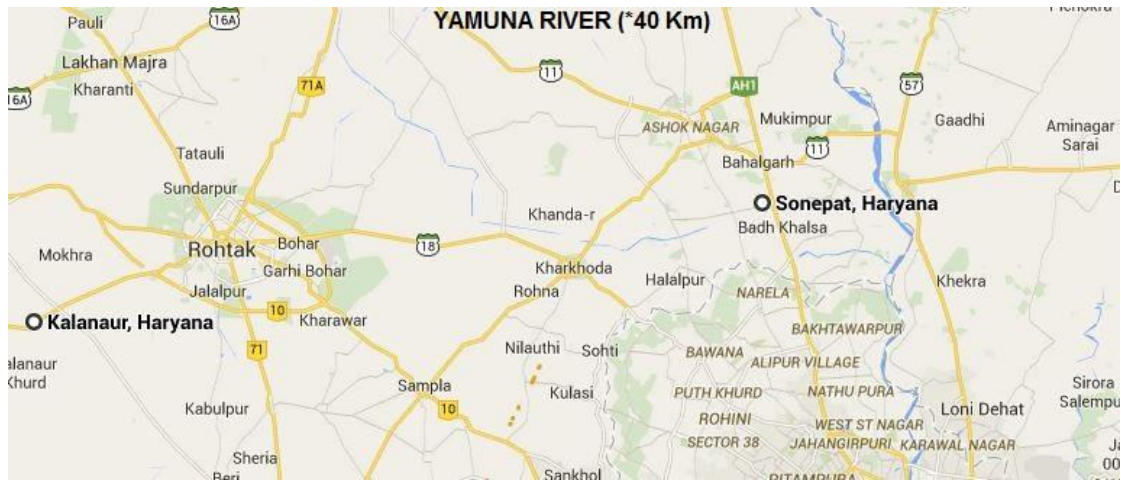


RIVER TAPI FROM KHADOD (BARDOLI) TO SURAT



RIVER TREVENI FROM TRIVENI SANGAM TO BADALPARA

Polluted River Stretches in Haryana



RIVER YAMUNA FROM PANIPAT TO SONEPAT



RIVER GHAGGAR FROM RORKI TO SIRSA

Polluted River Stretches Himachal Pradesh



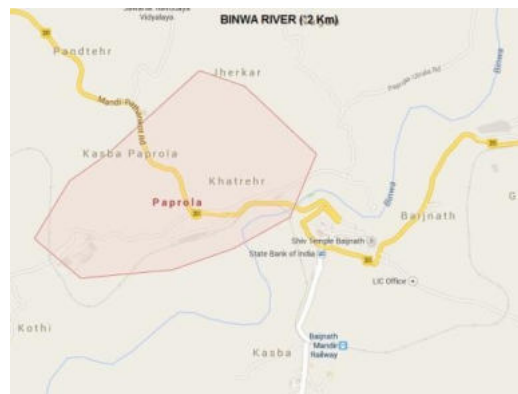
RIVER SIRSA FROM NALAGARH TO SOLAN



RIVER SWAN FROM UNA TO SANTOKHGARH



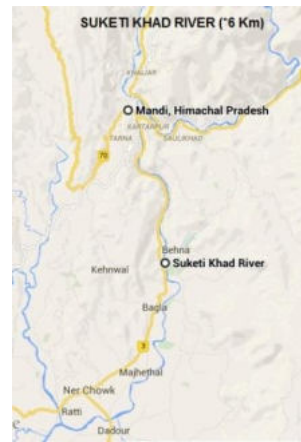
RIVER SUKHANA FROM SUKHNA TO PARWANOO



RIVER BINWA PAPROLA TO BAIJNATH



RIVER TONS FROM KILLOR TO TILWARI



RIVER SUKETI KHAD FROM MANDI TO BEHNA

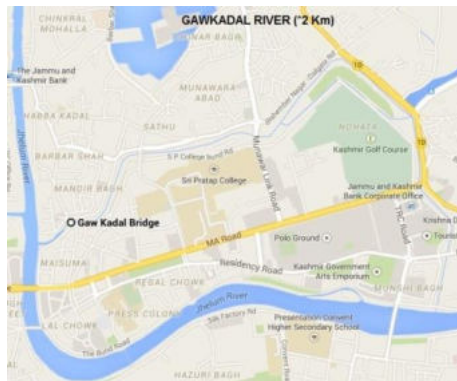
Polluted River Stretches in Jammu and Kashmir



BANGANGA RIVER FROM PONY SHED TO BATHING GHAT



CHENAB RIVER FROM JAL PATAN TO PARGAWAL



GAWKADAL RIVER FROM GAWKADAL BRIDGE TO NOHATA



JHELUM RIVER FROM CHATTABAL WEIR TO ANANTNAG



CHUNT KOL RIVER FROM MAULANA AZAD BRIDGE TO KANIKADAL



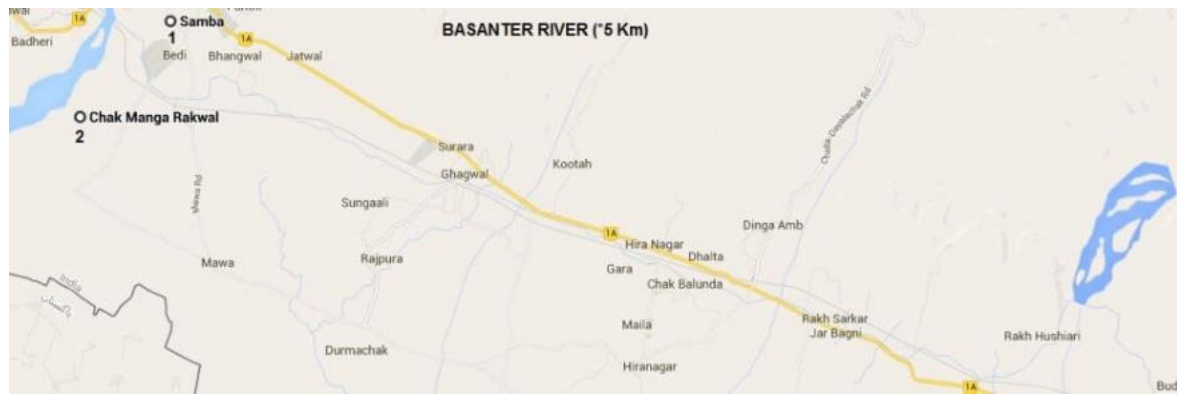
DEWAK RIVER FROM GARIGARH TO UTTARBEHANI



LIDDER RIVER FROM SILICOM TO LIDDAR NALAH

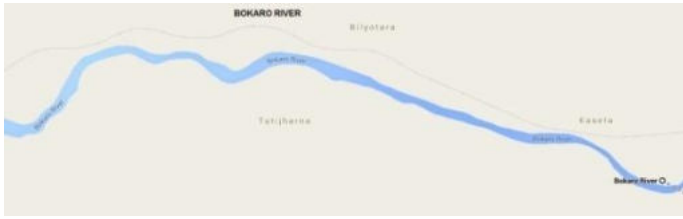


TAWI RIVER FROM SURAJNAGAR TO BELICHARANA



BASANTER RIVER FROM SAMBA TO CHAKMANGARAKWAL

Polluted River Stretches in Jharkhand



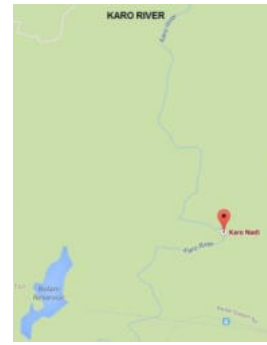
RIVER BOKARO FROM BILYOTARA TO JARANDI



RIVER PHUSRO ROAD FROM BDG TO TURIO



RIVER JUMAR FROM KANKE DAM TO KADAL



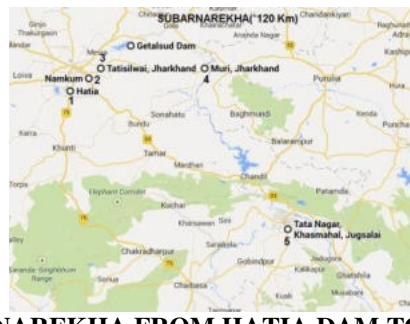
RIVER KARO FROM LOHOJIMI TO BALAGODA



RIVER KOEL FROM DALTANGANJ TO REHLA

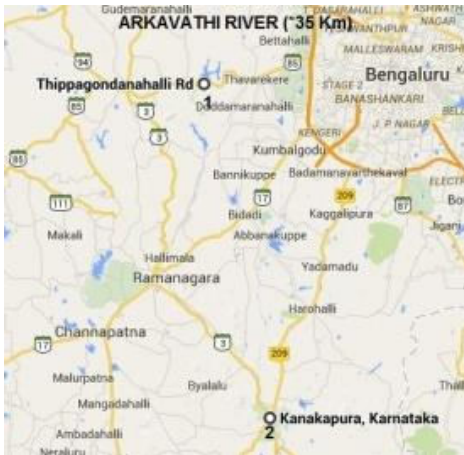


RIVER SANKH FROM KONGSERABASAR TO BOLBA



RIVER SUBARNAREKHA FROM HATIA DAM TO JAMSHEDPUR

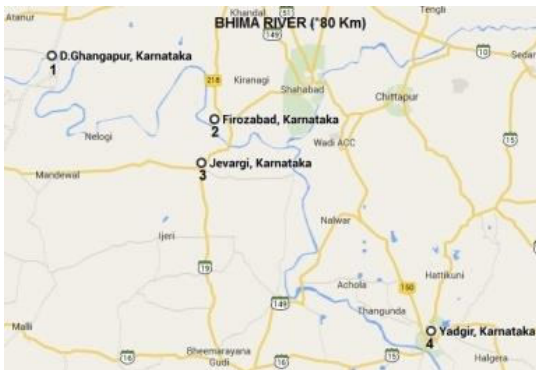
Polluted River Stretches in Karnataka



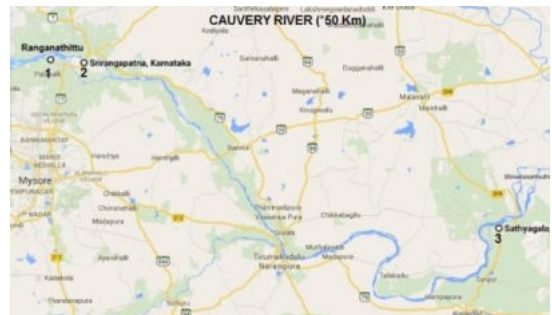
RIVER ARKAVATHI HALLI RESERVOIR TO KANAKAPURA TOWN



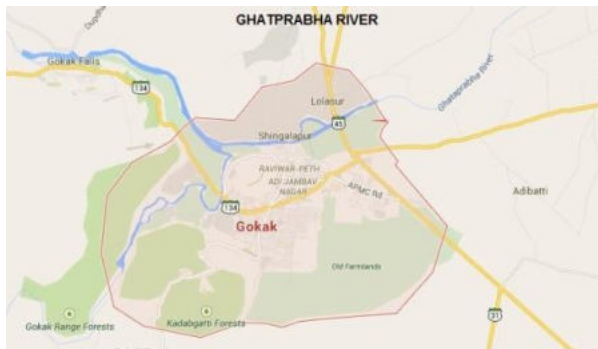
RIVER BHADRA FROM HOLEHUNNUR TO BHADRAVATHI



RIVER BHIMA GHANAPUR TO YADGIR



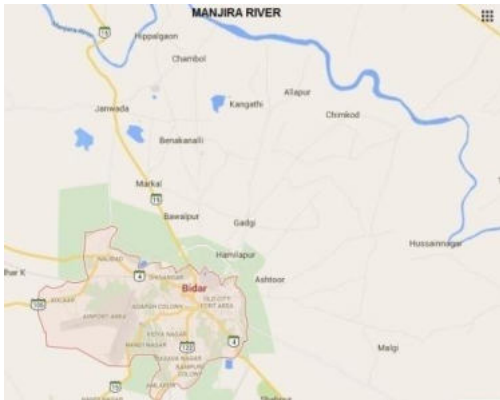
RIVER CAUVERY FROM RANGANATHITTU TO SATHYAGALAM BRIDGE



RIVER GHATPRABHA FROM GOKAK TOWN TO CHIGADOLLI



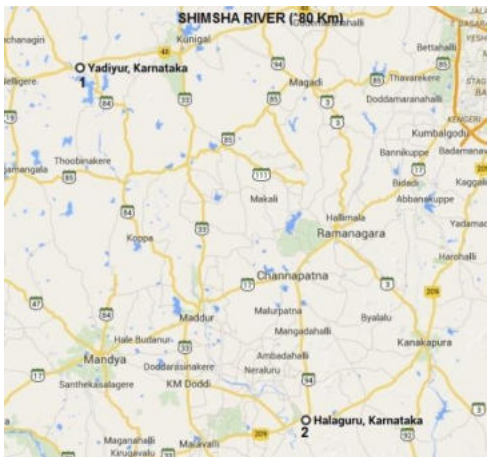
RIVER MALPRABHA FROM KHANAPUR TO DHARWAD



**RIVER MANJIRA
BIDAR TO HUSSAIN NAGAR**



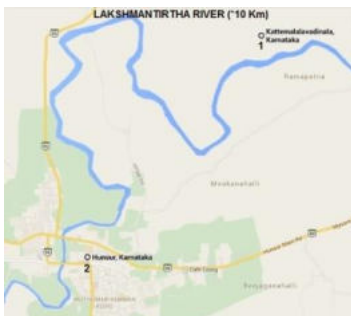
**RIVER TUNGABHADRA FROM HARIHAR
TO KORLAHALLI**



RIVER SHIMSHA FROM YEDIYAR TO HALAGUR



**RIVER TUNGHA FROM SHIVAMOGA TO
KUDLI**



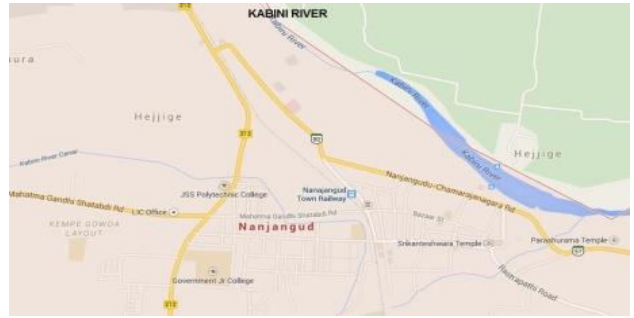
**RIVER LAKSHMANTIRTHA FROM
KATTEMALAVADI TO HUNSUR**



**RIVER KALI FROM HASAN MAAD (WEST
COAST PAPER MILLS LTD) TO BOMMANAHALLI
RESERVOIR**



RIVER KAGINA FROM SHAHABAD TO HONGUNTA

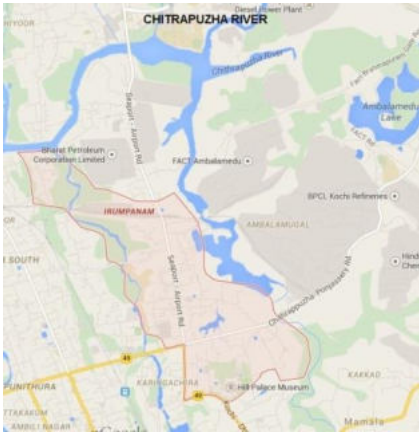


RIVER KABINI FROM NANJANAGUD TO HEJJIGE

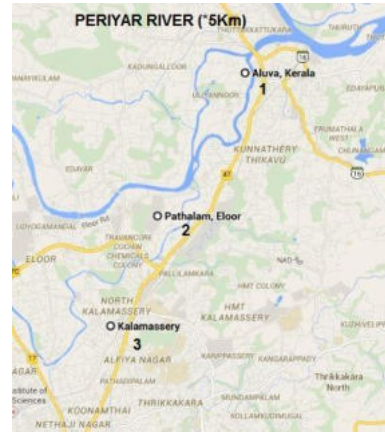


RIVER KRISHNA FROM YADURWADI TO TINTINI BRIDGE

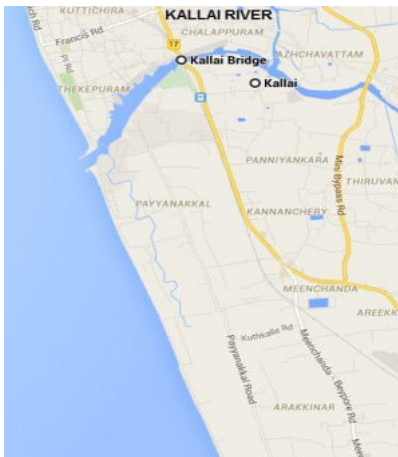
Polluted River Stretches in Kerala



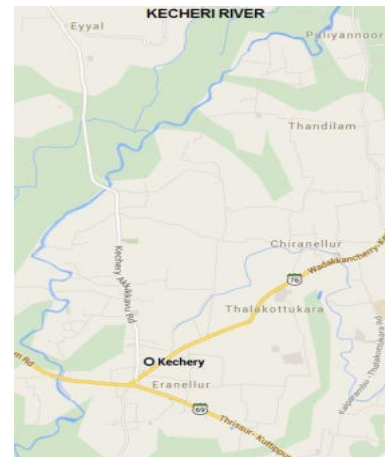
RIVER CHITRAPUZHA FROM IRUMPANAM TO KARINGACHIRA



RIVER PERIYAR FROM ALWAYE-ELOOR TO KALAMASSERY



RIVER KALLAI FROM THEKEPURAM TO ARAKKINAR



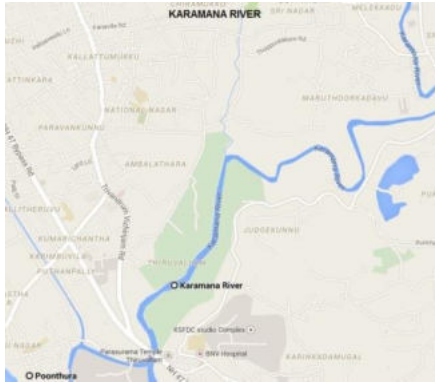
RIVER KECHERI FROM PULIYANNOR TO KECHERY



MANIMALA RIVER FROM KALLOOPARA TO THONDRA



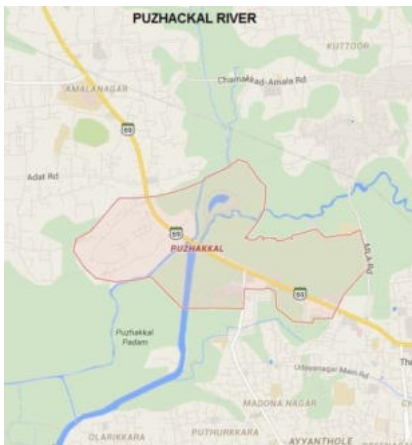
RIVER PULLUR FROM RAMNAGAR TO KANNOTH



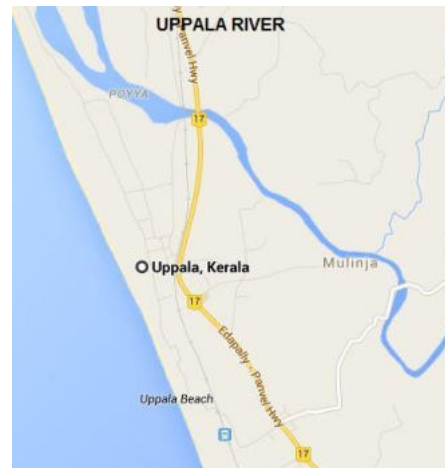
RIVER KARAMANA FROM MALEKKDU TO THIRUVALLAM



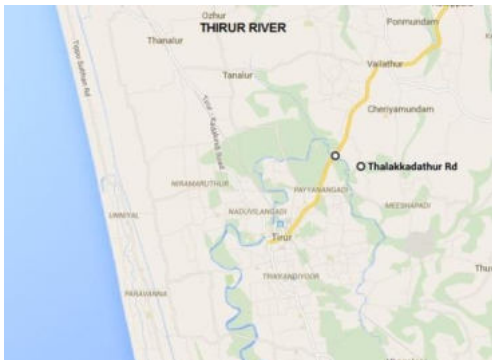
RIVER NEELESWARAM FROM NAMBIARKAL DAM TO HOSDURG



RIVER PUZHACKAL FROM OLARIKKARA TO PUZHACKAL



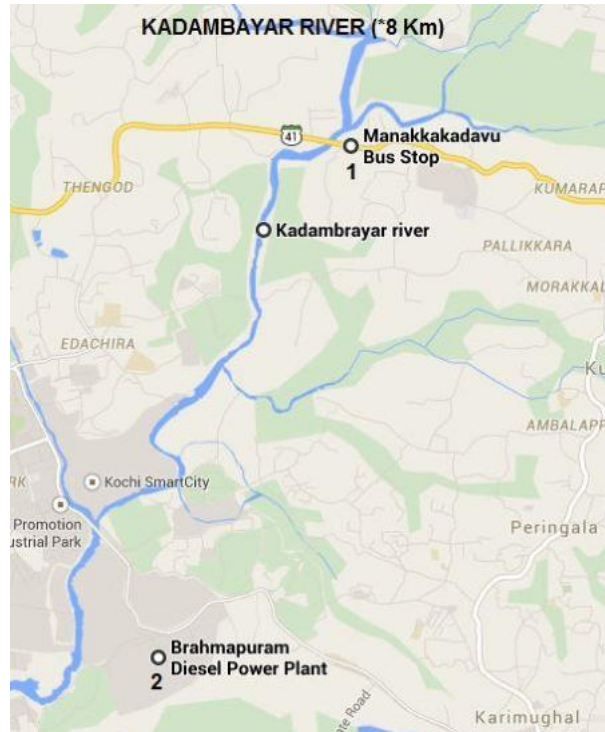
RIVER UPPALA FROM POYYA TO MULINJA



RIVER THIRUR FROM NADUVILANGADI TO THALAKKADATHUR



RIVER KUPPAM FROM THALIPARAMBA TO VELICHANGOOL

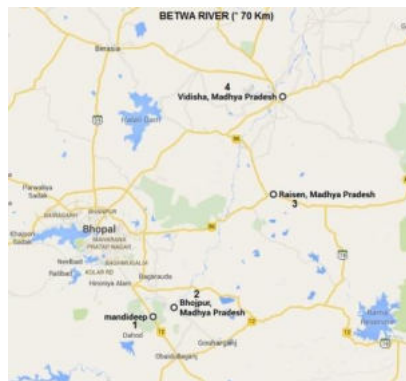


RIVER KADAMBAYAR FROM MANCKAKADAVU TO BRAHMAPURAM

Polluted River Stretches in Madhya Pradesh



RIVER BANJAR FROM MALANJKHAND TO TINGIPUR



RIVER BETWA FROM MANDIDEEP TO VIDISHA



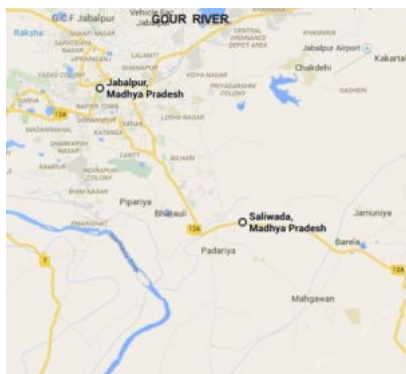
RIVER CHAMBAL FROM RAMPURA TO NAGDA



RIVER CHILLAR FROM SHAJAPUR TO MURADPURA



RIVER GOHAD FROM GOHAD DAM TO GORMI



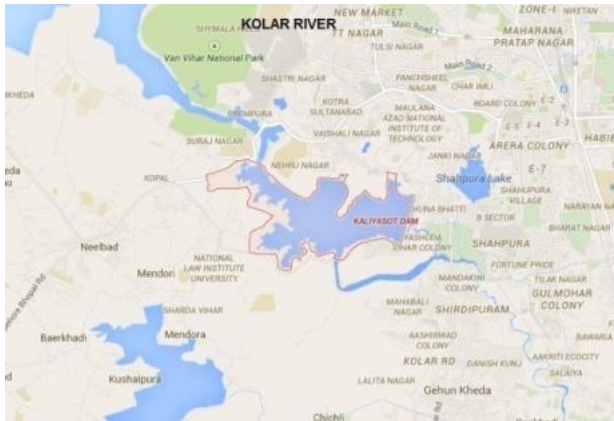
RIVER GOUR FROM JABALPUR TO SALIWADA



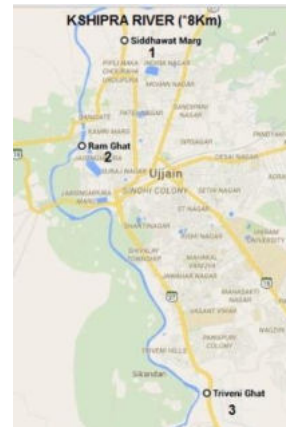
RIVER JAMMER FROM DHOLOWAD TO RAOTI



RIVER KALISOT FROM MANDIDEEP TO SAMARDHA VILLAGE



RIVER KOLAR FROM SURAJNAGAR TO SHIRDIPURAM



RIVER KSHIPRA FROM SIDDHAWAT TO TRIVENISANGAM



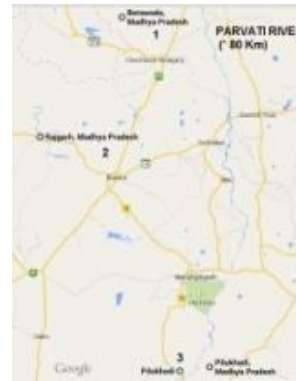
RIVER KUNDA FROM KHARGONE TO KHEDI KHURD



RIVER MALEI FROM JAORA T BARAUDA



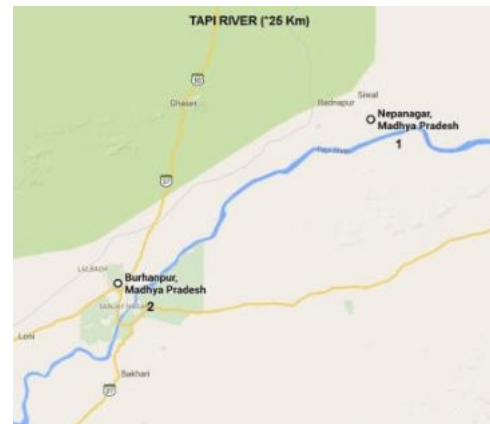
RIVER DENWA FROM HUPGARH TO SARNI



RIVER PARVATI FROM BATAWADA TO PILUKHEDI



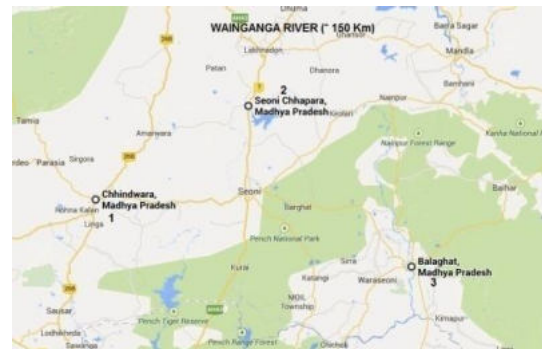
RIVER SHIVNA FROM MANDSAUR TO MALAYA KHEDI



RIVER TAPI FROM NEPANAGAR TO BURHANPUR



RIVER TONS FROM CHAKGHAT TO CHAPPAR



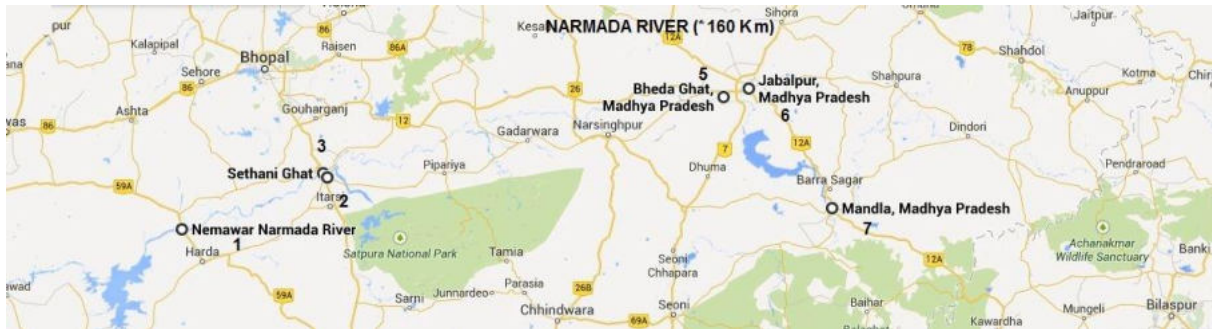
RIVER WAINGANGA FROM CHINDWARA TO BALAGHAT



RIVER BICHIA FROM SILPARI TO GADHAWA



RIVER KHAN FROM KABIT KHEDI TO KHAJRANA

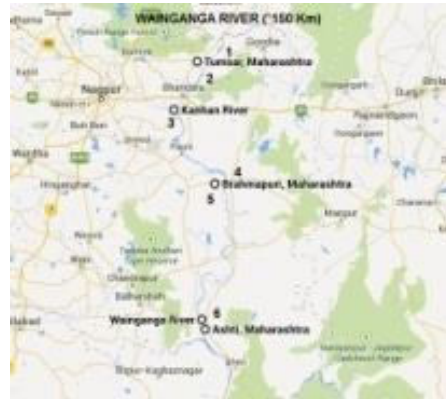


RIVER NARMADA FROM MANDALA TO BHEDA GHAT, SETHANI GHAT TO NEMAWAR

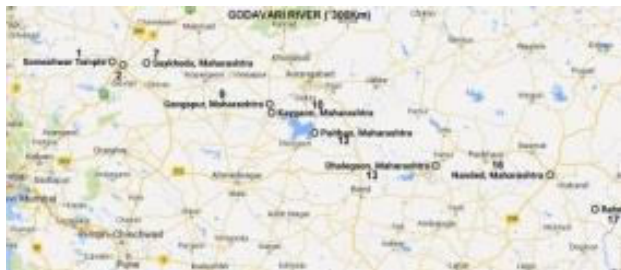
Polluted River Stretches in Maharashtra



RIVER WENA FROM KAWADGHAT TO HINDANGHAT



RIVER WAINGANGA FROM TUMSA TO ASHTI



RIVER GODAVARI FROM SOMESHWAR TEMPLE TO RAHED



RIVER BHIMA FROM VITHALWADI TO TAKLI



RIVER KRISHNA FROM SHINDI TO KURUNDWAD



RIVER ULHAS FROM KALYAN TO BADLAPUR



RIVER KUNDALIKA FROM SALAV TO ROHA



RIVER TAPI FROM RAVER TO SHAHADA



RIVER GIRNA FROM MALEGAON TO JALGAON



RIVER PANCHGANGA FROM SHIROL TO KOLHAPUR



RIVER NIRA FROM SANGAVI TO SHINDEWADI



RIVER BHATSA FROM SHAHAPUR TO BHADANE



RIVER RANGAVALI FROM TINTEMBA TO NAVAPUR



RIVER CHANDRABHAGA FROM PANDHARPUR TO SHEGAON DHUMALA



RIVER VASHISTI FROM KHERDI TO DALVATNE



RIVER MITHI FROM POWAI TO DHARAVI



RIVER KANHAN FROM BHANDARA TO NAGPUR



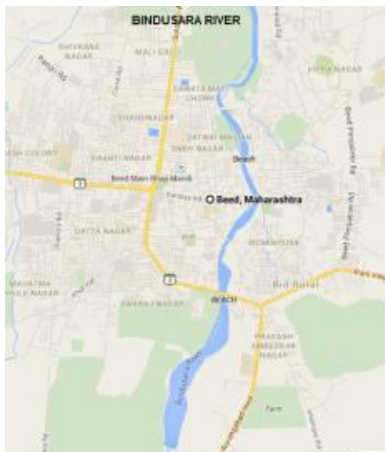
RIVER KOYNA FROM KARAD TO PAPPARDE



RIVER AMBA FROM BENSE TO ROHA



RIVER AMRAVATI FROM KOPARLI TO BETWAD



RIVER BINDUSARA FROM SWARAJ NAGAR TO SNEHNAGAR



RIVER DARNA FROM IGATPURI TO SANSARI



RIVER GHOD FROM ANNAPUR TO SHISHUR



RIVER GOMAI FROM LONKHEDA TO SHAHDA



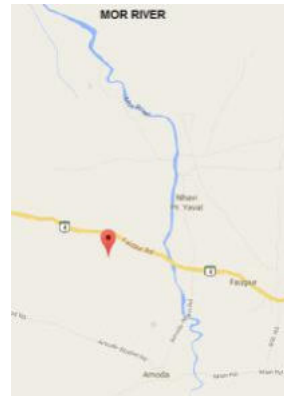
RIVER HIWARA FROM PACHORA TO NIMBORA



RIVER KAN FROM KAVATHE TO SAKARI



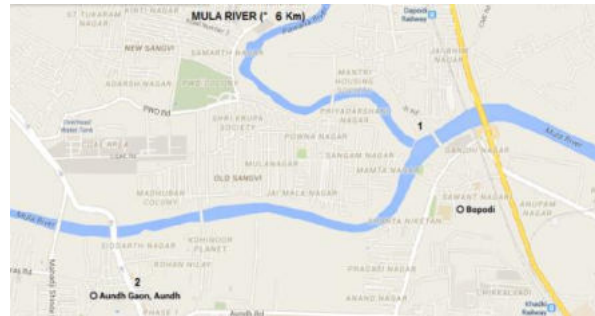
RIVER MANJARA FROM LATUR TO NANDED BRIDGE



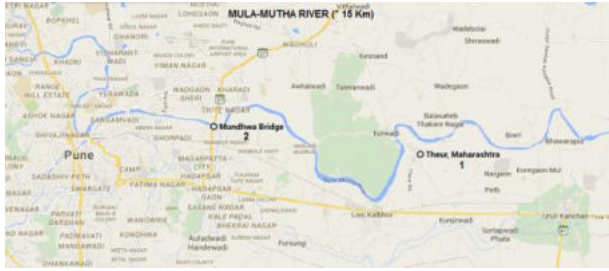
RIVER MOR FROM JALGAON TO AMODA



RIVER MORNA FROM AKOLA TO TAKALIJALAM



RIVER MULA FROM BOPODI TO AUNDH GAON



RIVER MULA- MUTHA FROM THEUR TO MUNDHWA BRIDGE



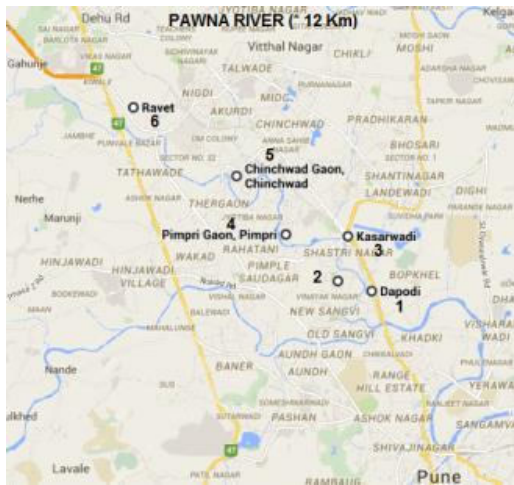
RIVER MUTHA FROM SHIVAJI NAGAR TO KHADAKWASLA DAM



RIVER PANZARA FROM VARKHEDE TO DHULE



RIVER PATALGANGA FROM KHADEPADA TO KOPOLI



RIVER PAWNA FROM DAPODI TO RAVET



RIVER PEDHI FROM NARAYANPUR TO BHATKULI



RIVER PELHAR FROM PEHLAR DAM TO GOLANI NAKA



RIVER PENGANGA FROM MEHKAR TO UMARKHED



RIVER PURNA FROM DHUPESHWAR TO ASEGAON



RIVER SAVITRI FROM DADLI TO MUTHAVALI



RIVER SINA FROM SOLAPUR TO BANKALAGI



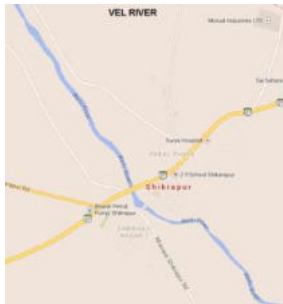
RIVER SURYA FROM DHAMNI DAM TO PALGHAR



RIVER URMODI FROM DHANGARWADI TO NAGTHANE



RIVER VAITARNA FROM GANDHRE TO SARASHI



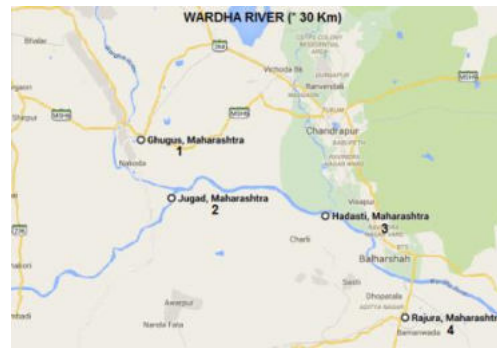
RIVER VEL FROM NHAVARE TO SHIKARPUR



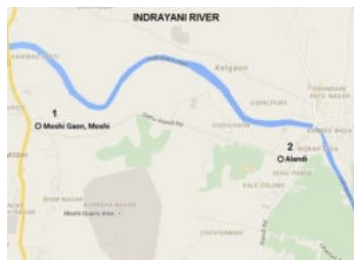
RIVER VENNA FROM MAHABALESHWAR TO MAHULI



RIVER WAGHUR FROM SUNASGAON TO SAKEGAON



RIVER WARDHA FROM GHUGHUS TO RAJURA

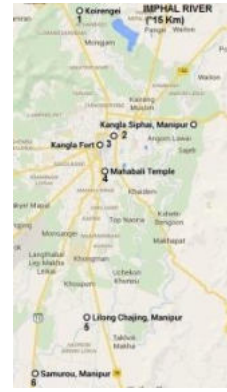


RIVER INDRAYANI FROM MOSHIGANO TO ALANDIGAON

Polluted River Stretches in Manipur



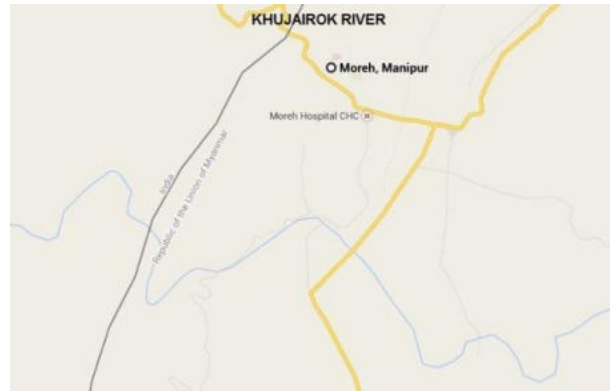
RIVER BARAK FROM TAMENGLONG TO SENAPATI



RIVER IMPHAL FROM KANGLA MOAT TO SAMUROU



RIVER KHUGA FROM KHUGA LAKE TO CHURACHANDPUR



RIVER KHUJAIROK FROM MOREH TO MAOJANG



RIVER LOKCHAO FROM BISHNUPUR TO LOKTAK LAKE



RIVER MAHA FROM MANTRI PANTHA TO CHANDEL



RIVER MANIPUR FROM SEKMAIJAN TO THOUBAL



RIVER NAMBUL FROM SINGDA DAM TO BISHNUPUR



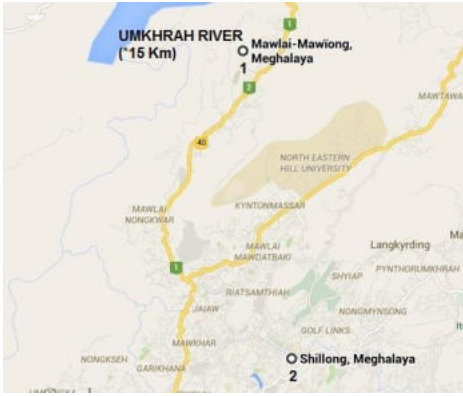
RIVER SEKMAI FROM SEKMAI DAM TO KAKCHING, THOUBAL



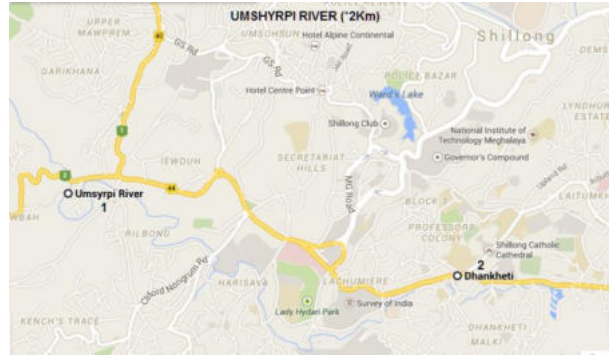
RIVER THOUBAL FROM SHONG KONG TO PHADOM



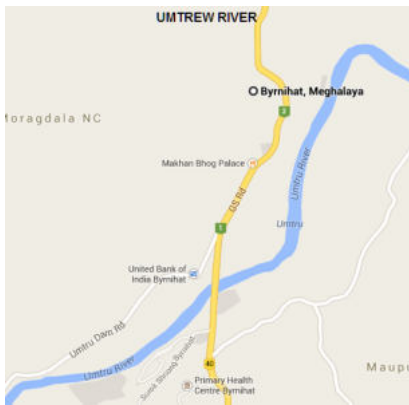
RIVER WANGJING FROM WANGJING TO HEIROK



RIVER UMKHRAH FROM MAWLAI TO SHILLONG



RIVER UMSHYRPI FROM UMSHYRPI BRIDGE TO DHANKETI



RIVER UMTREW FROM BYRNIHAT TO MORANG DALA

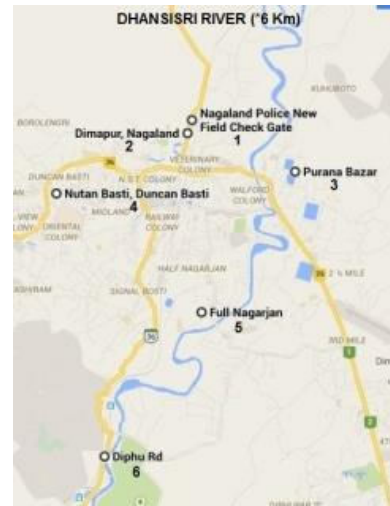


RIVER WAHBLEI FROM SHDADDKHAR, WEST KHASI HILLS TO RANIKOR

Polluted River Stretches in Nagaland



RIVER CHATHE FROM MEDZIPHEMA TO DIMAPUR



RIVER DHANSIRI FROM CHECK GATE TO DIPHU BDG

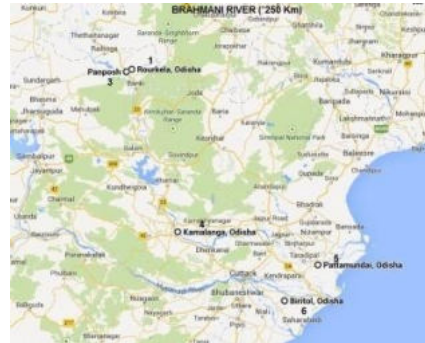


RIVER DZU FROM KOHIMA TO DZUKOU VALLEY

Polluted River Stretches in Orissa



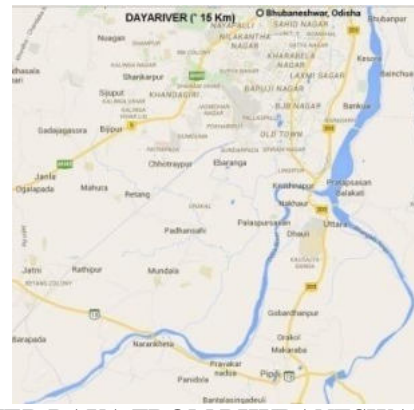
RIVER BAITRANI FROM JAJPUR-KUAKHIA RD TO DHAMRA



RIVER BRAHAMANI FROM ROURKELA TO BIRTOL



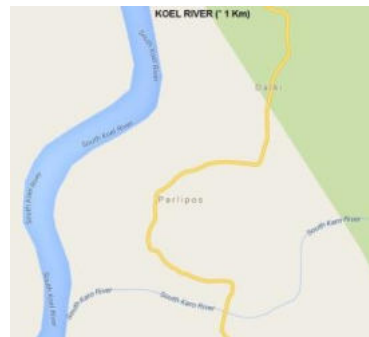
RIVER BUDHABALNAGA FROM MAHULIA TO BARIPADA



RIVER DAYA FROM BHUBANESWAR TO BARAGARH



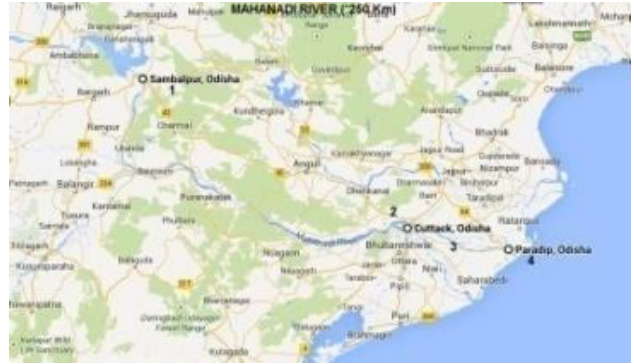
RIVER KATHAJODI FROM CUTTACK TO URALI



RIVER KOEL FROM DALKI TO PARLIPOS



RIVER KUAKHAI FROM URALI TO BHUBANESWAR



RIVER MAHANADI FROM SAMBALPUR TO PARADEEP



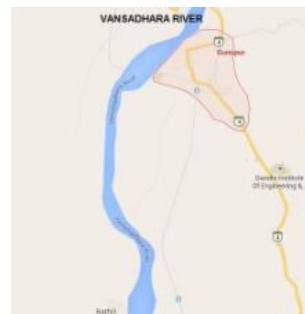
RIVER NAGAVALLI FROM JAYKYPUR TO RAYAGADA



RIVER RUSHIKULYA FROM PRATAPPUR TO GANJAM



RIVER SERUA FROM KHANDAETA TO SANKHATRASAS



RIVER VANSADHARA FROM GUNUPUR TO BATHILI

Polluted River Stretches in Punjab

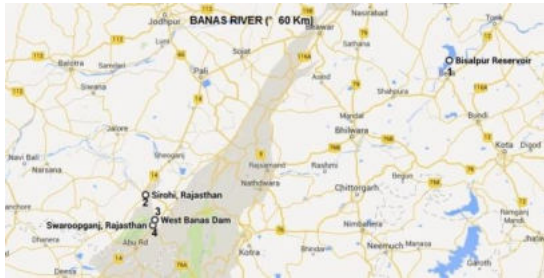


RIVER GHAGGAR FROM SARDULGARH TO MUBARAKPUR



RIVER SATLUJ FROM RUPNAGAR TO HARIKE BRIDGE

Polluted River Stretches in Rajasthan



**RIVER BANAS ALONG BISALPUR DAM,
SWAROOPGANJ, NEWTA DAM**



**RIVER CHAMBAL FROM SAWAIMADHOPUR TO
KOTA**



**RIVER CHAPPI FROM CHHAPI DAM,
JHALAWAR TO CHHAPIHERA**



**RIVER GHAGGAR FROM SUREWALA TO
HAMUMANGARH**



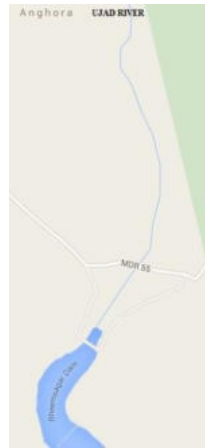
RIVER KALI SINDH FROM BAROD TO GADEPAN



RIVER PARVATI FROM KHATOLI, KOTA TO TODRA



RIVER JAWAI FROM JAWAI DAM , SENA TO GALTHANI

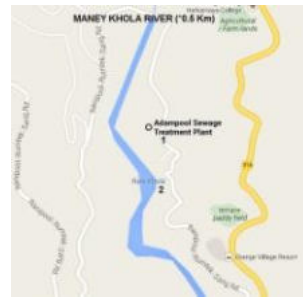


RIVER UJAD FROM MORI (BHIM SAGAR DAM) TO ANGHORA

Polluted River Stretches in Sikkim



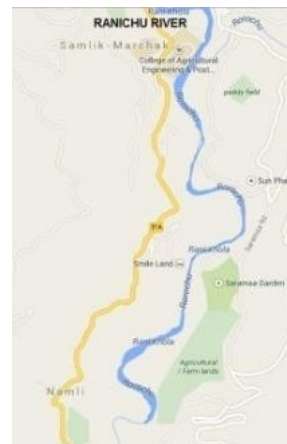
RIVER DIKCHU FROM NAMPONG TO DIKCHU



RIVER MANEYKHOLA FROM ADAMPOOL TO BURTUKK



RIVER RANJIT FROM DAM SITE (NHPC) TO TREVENI

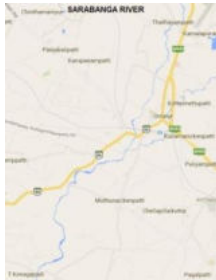


RIVER RANICHU FROM NAMLI TO SINGTAM

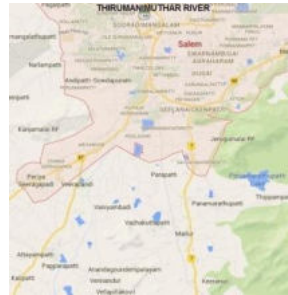


RIVER TEESTA FROM MELLI TO CHUNGTHANG

Polluted River Stretches in Tamil Nadu



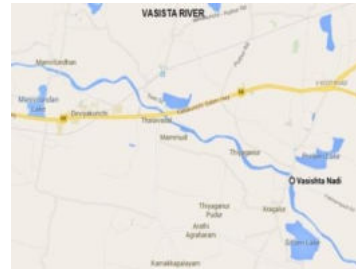
**RIVER SARABANGA FROM
THATHAYAMPATTI TO T.KONAGAPADI**



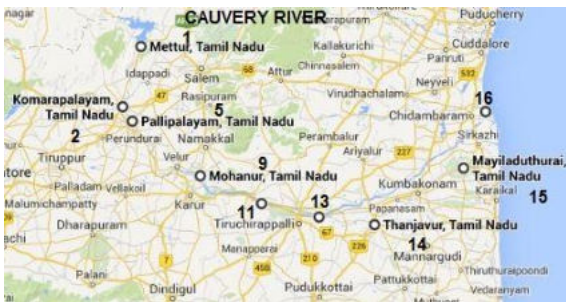
**RIVER THIRUMANIMUT FROM SALEM TO
PAPPARAPATTI**



**RIVER PALAR FROM VANIYAMBADI TO
MINNUR**



**RIVER VASISTA FROM MANIVILUNDHAN
TO THIYAGANUR**



**RIVER CAUVERY FROM METTUR TO
MAYILADUTHURAI**



**RIVER TAMBIRAPANI FROM
PAPPANKULAM TO ARUMUGANERI**

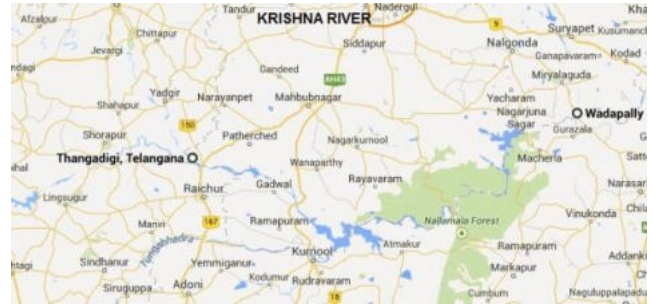


RIVER BHAVANI FROM SIRUMUGAI TO KALINGARAYAN CANAL

Polluted River Stretches in Telangana



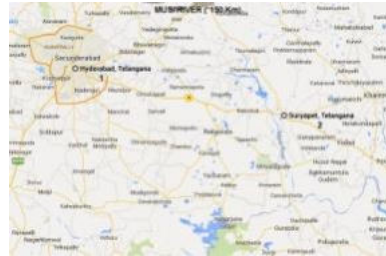
GODAVARI FROM KAMALAPUR TO BURGAMPAHAD



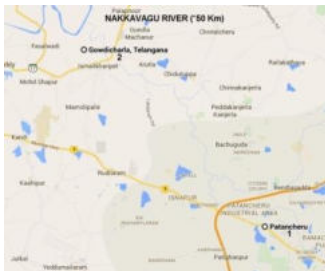
KRISHNA FROM THANGADIGI TO WADAPALLY



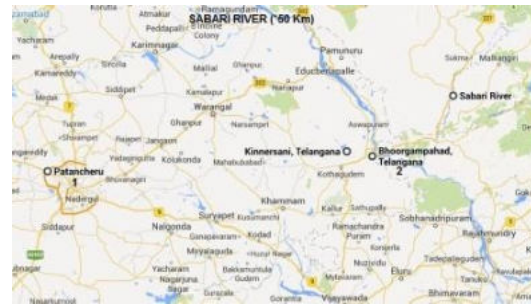
MANJEERA FROM GOWDICHARLA TO NAKKAVAGU



MUSI FROM HYDERABAD TO SURYAPET



NAKKAVAGU FROM PATANCHERU TO GOWDICHARLA

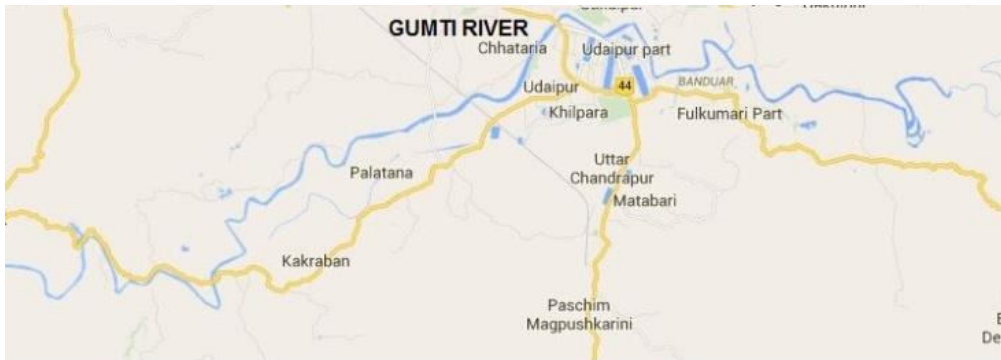


SABARI FROM PALANCHU TO BURGAMPAHAD



MANER FROM WARANGAL TO SOMNAPALLI

Polluted River Stretches in Tripura

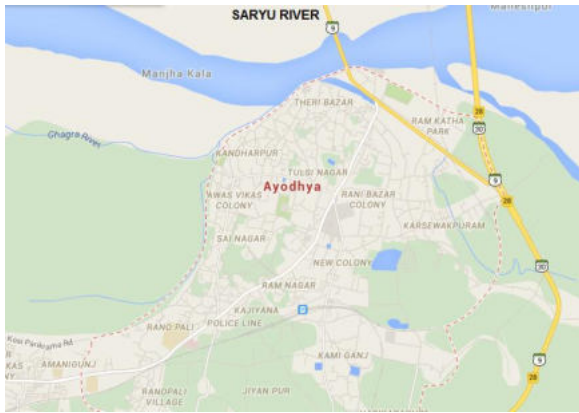


RIVER GUMTI FROM TELKAJILA TO AMARPUR



RIVER HAORA FROM AGARTALA TO BISHRAMGANJ

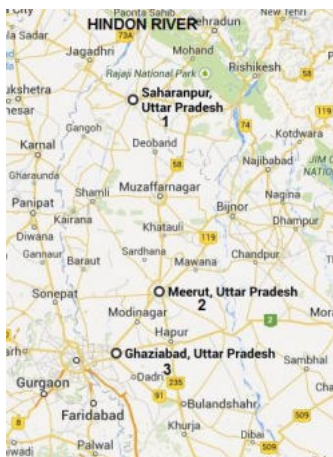
Polluted River Stretches in Uttar Pradesh



RIVER SARYU FROM AYODHYA TO ELAFATGANJ



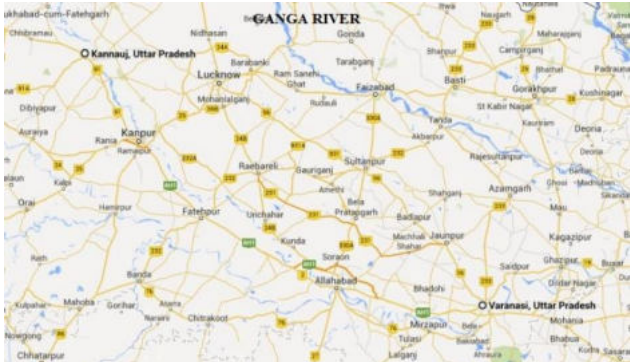
RIVER SAI FROM UNNAO TO JAUNPUR



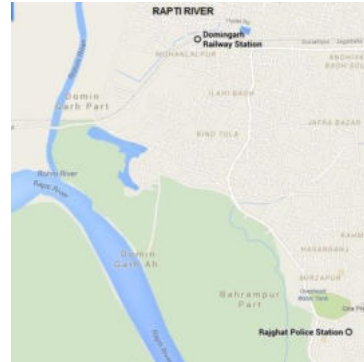
RIVER HINDON FROM SAHARANPUR TO GHAZIABAD



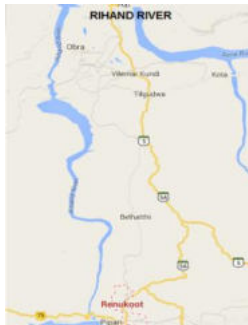
RIVER KALINADI FROM MUZAFFAR NAGAR TO GULAOTHI TOWN



RIVER GANGA FROM KANNAUJ TO VARANASI



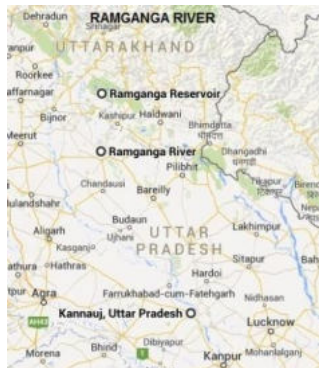
RIVER RAPTI FROM DOMINGARH TO RAJGHAT



RIVER RIHAND FROM RENUKUT TO PIPARI



RIVER BETWA FROM HAMIRPUR TO WAGPURA



RIVER RAMGANGA FROM MURADABAD TO KANNAUJ



RIVER YAMUNA FROM SHAHPUR TO ALLAHABAD (BALUA GHAT)



RIVER GOMTI FROM SITAPUR TO VARANASI



RIVER GHAGHARA FROM BARHALGANJ TO DEORIA



RIVER KOSI FROM AJITPUR TO CHAMRAUL

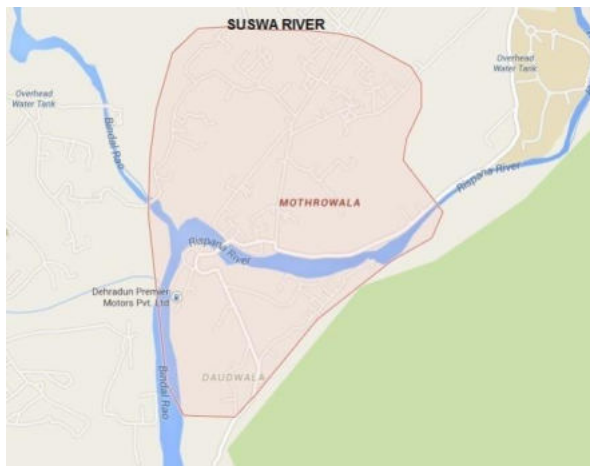
Polluted River Stretches in Uttarakhand



RIVER GANGA FROM HARIDWAR TO ROORKEE



RIVER KOSI FROM SULTANPUR PATTI TO PATTIKALAN



RIVER SUSWA FROM MORTHOWALA TO RAIWALA

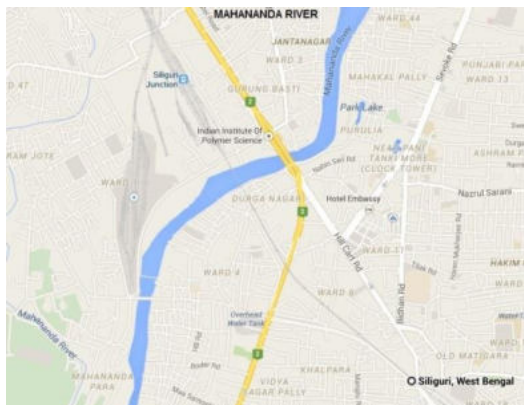


RIVER DHELA FROM KASHIPUR TO THAKURDWARA



RIVER BHELA FROM KASHIPUR TO RAJPURA TANDA

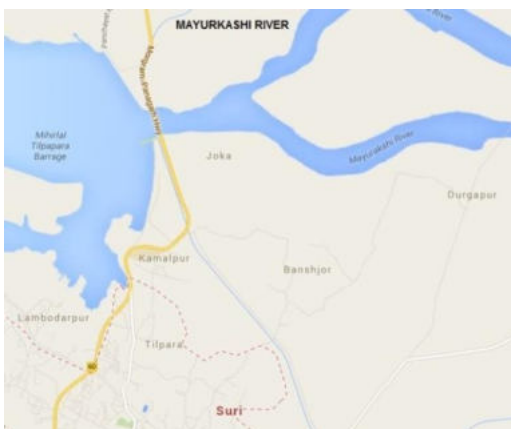
Polluted River Stretches in West Bengal



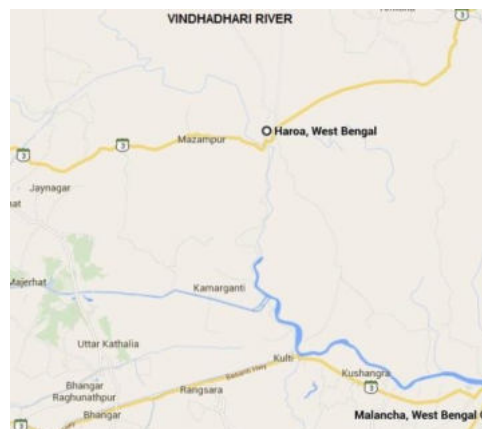
RIVER MAHANANDA FROM SILIGURI TO BINAGURI



RIVER TEESTA FROM SILIGURI TO PAHARPUR



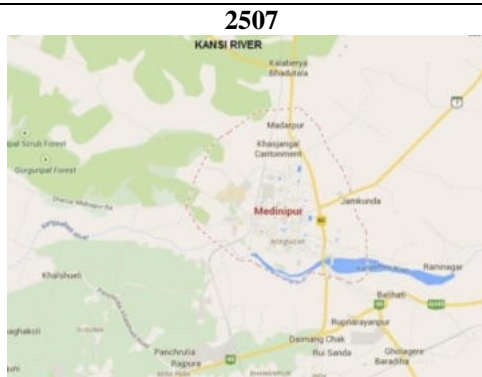
RIVER MAYURKASHI FROM SURI TO DURGAPUR



RIVER VINDHADHARI FROM HAROA BRIDGE TO MALANCHA BURNING GHAT



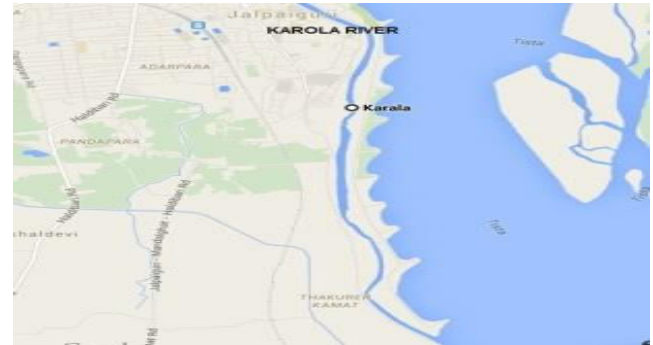
RIVER DAMODAR FROM DURGACHAK TO DISHERGARH VILLAGE



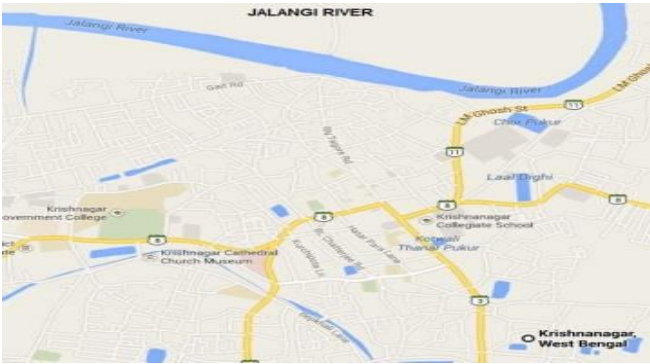
RIVER KANSI FROM MIDNAPORE TO RAMNAGAR



RIVER DWARKA FROM TARAPITH TO SADHAK BAMDEB GHAT



RIVER KAROLA FROM JALPAIGURI TO THAKURER KAMAT



RIVER JALANGI FROM LAAL DIGHI TO KRISHNA NAGAR



RIVER KALJANI FROM BITALA TO ALIPURDUAR



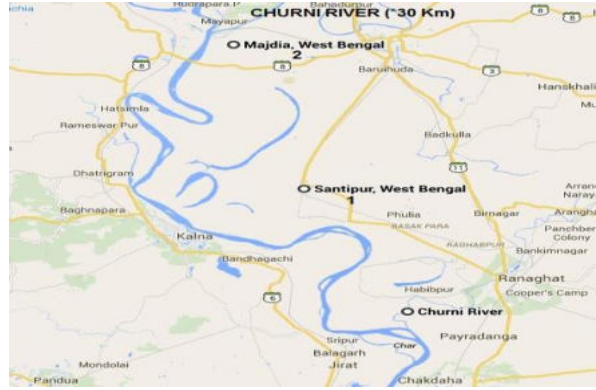
RIVER BARAKAR FROM KULTI TO ASANSOL



RIVER DWARKESHWAR FROM BANKURA TO KUSHTIA



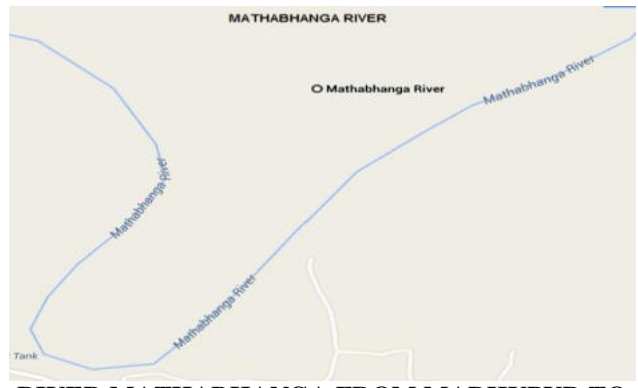
RIVER SILBATI FROM GHATAL TO NISCHINDIPUR



RIVER CHURNI FROM SANTIPUR TO MAJHADIA



RIVER RUPNARAYAN FROM KOLAGHAT TO BENAPUR



RIVER MATHABHANGA FROM MADHUPUR TO GOBINDAPUR



RIVER GANGA FROM TRIBENI TO DIAMOND HARBOUR

ANNEXURE III**LIST OF POLLUTED RIVERS**

S NO.	POLLUTED RIVER	S NO.	POLLUTED RIVER	S NO.	POLLUTED RIVER	S NO.	POLLUTED RIVER
1.	AMBA	41.	CHAMBAL	81.	HASDEO	121.	KHAROON
2.	AMBIKA	42.	CHANDRABHAGA	82.	HINDON	122.	KHARSANG
3.	AMLAKHADI	43.	CHAPORA	83.	HIWARA	123.	KHUGA
4.	AMRAVATI	44.	CHAPPI	84.	HUNDRI	124.	KHUJAIROK
5.	ANAS	45.	CHATHE	85.	IMPHAL	125.	KIM
6.	ARKAVATHI	46.	CHENAB	86.	INDRAYANI	126.	KOEL
7.	ASSONORA	47.	CHILLAR	87.	IRIL	127.	KOHORA
8.	BAITRANI	48.	CHITRAPUZHA	88.	JAI BHARALI	128.	KOLAK
9.	BALEHWAR	49.	CHUNT KOL	89.	JALANGI	129.	KOLAR
10.	BANAS	50.	CHURNI	90.	JAMMER	130.	KOLONG
11.	BANGANGA	51.	DAMANGANGA	91.	JAWAI	131.	KOSI
12.	BANJAR	52.	DAMODAR	92.	JHANJI	132.	KOYNA
13.	BARAK	53.	DARNA	93.	JHELAM	133.	KRISHNA
14.	BARAKAR	54.	DAYA	94.	JUMAR	134.	KSHIPRA
15.	BASANTER	55.	DEEPAR BILL	95.	KABINI	135.	KUAKHAI
16.	BEAS	56.	DENWA	96.	KADAMBAY	136.	KUNDA
17.	BEKI	57.	DEWAK	97.	KAGINA	137.	KUNDALIKA
18.	BETWA	58.	DHADAR	98.	KALI	138.	KUNDLI
19.	BHADAR	59.	DHANSIRI	99.	KALI SINDH	139.	KUNDU
20.	BHADRA	60.	DHELLA	100.	KALINADI	140.	KUPPAM
21.	BHARALU	61.	DIGBOI	101.	KALISOT	141.	KUSHIARA
22.	BHATSA	62.	DIKCHU	102.	KAI IANI	142.	KYNSHI
23.	BHAVANI	63.	DISANG	103.	KALLAI	143.	KYRHUKHLA
24.	BHELA	64.	DWARAKESHWAR	104.	KALONG	144.	LAKSHMANTIRTHA
25.	BHIMA	65.	DWARKA	105.	KALU	145.	LIDDER
26.	BHOGAVO	66.	DZU	106.	KAN	146.	LOKCHAO
27.	BHOGDO	67.	GANGA	107.	KANHAN	147.	LUKHA
28.	BICHIA	68.	GAWKADAL	108.	KANSI	148.	MAHA
29.	BICHOLIM	69.	GHAGGAR	109.	KAPILI	149.	MAHANADI
30.	BINDUSARA	70.	GHAGHARA	110.	KARAMANA	150.	MAHANANDA
31.	BINWA	71.	GHATPRABHA	111.	KARO	151.	MAHI
32.	BOGINAD	72.	GHOD	112.	KAROLA	152.	MALEI
33.	BOKARO	73.	GIRNA	113.	KATHAJODI	153.	MALPRBHA
34.	BORI	74.	GODAVARI	114.	KATHAKAL	154.	MANAS
35.	BRAHAMPUTRA	75.	GOHAD	115.	KAVERI	155.	MANDOVI
36.	BUDHABALNAG	76.	GOMAI	116.	KEECHERI	156.	MANER
37.	BUGI	77.	GOMTI	117.	KELO	157.	MANEY KHOLA
38.	BURAI	78.	GOUR	118.	KHAN	158.	MANIMALA
39.	BURHIDIHING	79.	HAORA	119.	KHANDEPAR	159.	MANIPUR
40.	CAUVERY	80.	HARBORA	120.	KHARI	160.	MANJEERA

S NO.	POLLUTED RIVER	S NO.	POLLUTED RIVER	S NO.	POLLUTED RIVER
161.	MANJIRA	201.	RAM REKHA	241.	TAPI
162.	MANUSMAR	202.	RAMGANGA	242.	TAPTI
163.	MAPUSA	203.	RANGA NADI	243.	TAWI
164.	MARKANDA	204.	RANGAVALI	244.	TEESTA
165.	MATHABHANGA	205.	RANGIT	245.	THIRUMANIMUTHAR
166.	MAYURKASHI	206.	RANICHU	246.	THIRUR
167.	MITHI	207.	RAPTI	247.	THOUBAL
168.	MOR	208.	RIHAND	248.	TITUR
169.	MORA BHARALI	209.	RUPNARAYAN	249.	TONS (TRIBUTORY OF GANGA)
170.	MORNA	210.	RUSHIKULYA	250.	TONS (TRIBUTORY OF YAMUNA)
171.	MUCHKUNDI	211.	SABARI	251.	TRIVENI
172.	MULA	212.	SABARMATI	252.	TUNGABHADRA
173.	MULA-MUTHA	213.	SAI	253.	TUNGA
174.	MUSI	214.	SAL	254.	UJAD
175.	MUTHA	215.	SANKH	255.	ULHAS
176.	MYNTDU	216.	SANKOSH	256.	UMKHRAH
177.	NAGAVALLI	217.	SARABANGA	257.	UMSHYRPI
178.	NAKKAVAGU	218.	SARYU	258.	UMTREW
179.	NAMBUL	219.	SATLUJ	259.	UPPALA
180.	NARMADA	220.	SAVITRI	260.	URMODI
181.	NEELESWARAM	221.	SEKMAI	261.	VAITARNA
182.	NIRA	222.	SEONATH	262.	VALVANT
183.	NONBAH	223.	SERUA	263.	VANSADHARA
184.	PAGLDIA	224.	SHEDHI	264.	VASHISTI
185.	PALAR	225.	SHIMSHA	265.	VASISTA
186.	PANAM	226.	SHIVNA	266.	VEL
187.	PANCHGANGA	227.	SILABATI	267.	VENNA
188.	PANCHNAI	228.	SINA	268.	VINDHADHARI
189.	PANZARA	229.	SIRSA	269.	WAGHUR
190.	PARVATI	230.	SIRSIA	270.	WAHBLEI
191.	PATALGANGA	231.	SONAI	271.	WAINGANGA
192.	PAWNA	232.	SUBANSIRI	272.	WANGJING
193.	PEDHI	233.	SUBARNAREKHA	273.	WARDHA
194.	PEHLAR	234.	SUKETI KHAD	274.	WENA
195.	PENGANGA	235.	SUKHANA	275.	YAMUNA
196.	PENNNAR	236.	SURYA		
197.	PERIYAR	237.	SUSWA		
198.	PULLUR	238.	SWAN		
199.	PURNA	239.	TAMBIRAPANI		
200.	PUZHACKAL	240.	TANSA		