

Turning the Tide: Role of Statutory Bodies in Abating River Pollution



2nd May 2024 | 14:00 – 16:30 IST

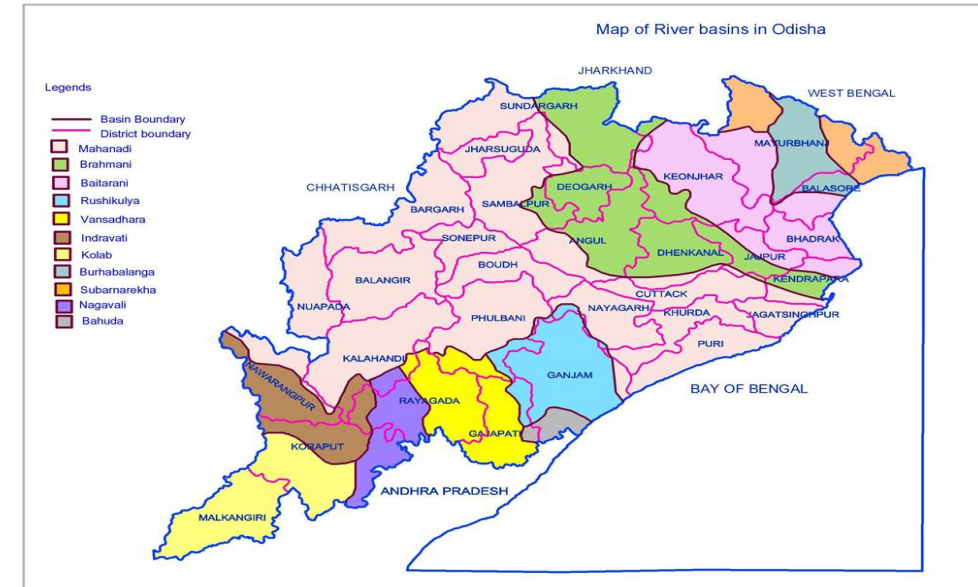
Initiatives of Government of Odisha to abate River Pollution

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Department, Government of Odisha &
Dr. Hrudananda Mohanty, SCI AI**

POLLUTED RIVER STRETCHES IN ODISHA IDENTIFIED BY CPCB (2018)



Priority	Polluted River Stretches
I (BOD concentration 30 mg/1)	01 Gangua-D/s of Bhubaneswar
II (BOD between 20-30 mg/l.)	Nil
III (BOD between 10-20 mg/l.)	03 <ul style="list-style-type: none"> ▪ Guradih nallah-Along Rourkela, ▪ Kathajodi-Cuttack to Urali, ▪ Nandira Jhor-D/s Talcher
IV (BOD between 6-10 mg/l.)	02 <ul style="list-style-type: none"> ▪ Daya-Bhubaneswar to Bargarh, ▪ Kuakhai – Urali to Bhubneswar
V (BOD between 3-6 mg/l.)	13 <ul style="list-style-type: none"> ▪ Banguru nallah along Talcher, <ul style="list-style-type: none"> ▪ Bheden along Bheden, ▪ Brahmani – Rourkela to Biritola, ▪ Budhabalanga-Mahulia to Baripada, <ul style="list-style-type: none"> ▪ Kusumi along Angul-Talcher , ▪ Mahanadi - Sambalpur to Paradeep, <ul style="list-style-type: none"> ▪ Mangala along Puri, ▪ Nagavali : Jaykaypur to Rayagada, <ul style="list-style-type: none"> ▪ Nuna along Bijipur, Puri, ▪ Ratnachira along Bhubaneswar, Puri, <ul style="list-style-type: none"> ▪ Rushikulya : Pratappur to Ganjam, ▪ Sabulia along Jagannathpatna – Rambha, <ul style="list-style-type: none"> ▪ Serua : Khandeita to Sankhatarasa



Rivers	Polluted river stretches
Mahanadi River basin	12
Brahmani River basin	4
Rushikulya River basin	1
Nagavali River basin	1
Budhabalang River basin	1

NGT ORDERS FOR ABATEMENT OF RIVER POLLUTION IN INDIA



In re: News item published in ‘The Hindu’ authored by Shri Jacob Koshy titled more river stretches are now critically polluted: CPCB; O.A. 673/2018

The present matter in the National Green Tribunal was initiated *suo-motu*, based on a news item dated 17.09.2018 in ‘The Hindu’, titled “More river stretches are now critically polluted: CPCB”. According to the news item, 351 polluted river stretches have been identified by the CPCB as polluted river stretches. 117 such stretches are in the States of Assam, Gujarat, and Maharashtra. Odisha had 19 river stretches that were polluted.

The CPCB has apprised the concerned States of the extent of pollution in the rivers.

However, in ongoing matter of **Re: Compliance of Municipal Solid Waste Management Rules, 2016 and other Environmental Issues O.A. 606/2018**, NGT is issuing orders for monitoring of water quality data.

GIST OF NGT ORDERS FOR GOVERNMENT OF ODISHA



- Preparation of Action Plans for the Polluted River Stretches
- Setting up of Inter departmental committees for abating River Pollution
- Direction of 100% treatment of sewage to the extent of in-situ remediation, commencement of setting up of STPs and the work of connecting all the drains and other sources of generation of sewage to the STPs.
- Regular monitoring on the progress of action plan.
- Any default will be visited with serious consequences at every level, including initiation of prosecution, disciplinary action and entries in ACRs of the erring officers.
- Coastal pollution to be dealt with in the same manner as polluted river stretches by preparing action plans.





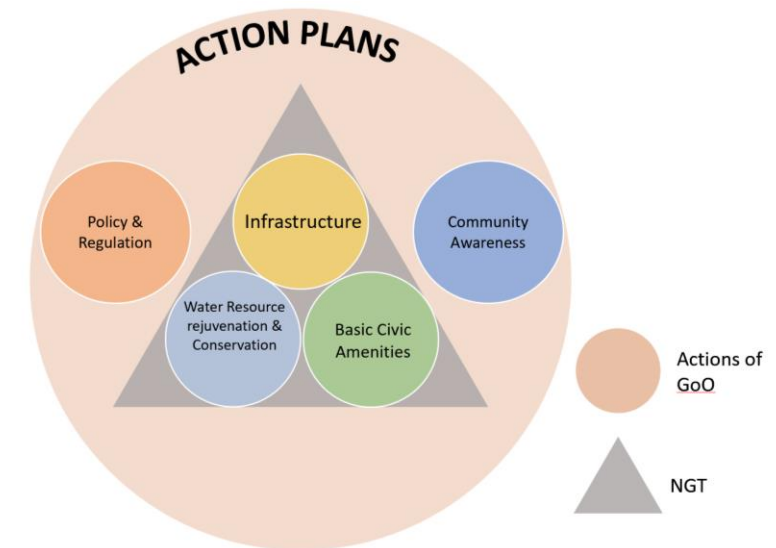
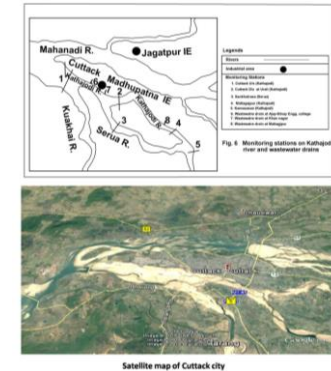
I. ACTION PLANS FOR POLLUTED RIVER STRETCHES

- Pursuant to the NGT orders, Action plan for the 19 polluted river stretch prepared and have been sent to CPCB.
- While preparing the Action Plans, attributes such as Source Control, River catchment/ Basin Management-controlled ground water extraction and periodic quality assessment; Flood Plain Zone; Ecological/Environmental Flow among others were taken into consideration.

ACTION PLAN FOR RESTORATION OF POLLUTED STRETCH OF GANGUA (DOWNSTREAM OF BHUBANESWAR) (PRIORITY-I)



Action Plan for Restoration of Polluted Stretch of River Kathajodi and River Serua



II. CONSTITUTION OF STATE AND DISTRICT LEVEL COMMITTEES FOR ABATING RIVER POLLUTION IN PURSUANCE OF NGT ORDERS



River Rejuvenation Committee constituted under the overall supervision and coordination of Additional Chief Secretary, Forest and Environment Department, Govt. of Odisha to prepare and monitor the execution of action plans for rejuvenation of rivers in Odisha.

Special Environment Surveillance Task Force constituted by the Forest and Environment Department at the district level to ensure no illegal mining takes place in riverbeds of such polluted stretches of Odisha.

16762 22/11/18

GOVERNMENT OF ODISHA
FOREST & ENVIRONMENT DEPARTMENT

NOTIFICATION
Dated, Bhubaneswar, the 12.11.18

ENV-1-2/2018 24426 /F&E, In pursuance of the directions of the Hon'ble National Green Tribunal, Principal Bench, New Delhi dated 20th September, 2018 contained in Para 50(ii) of the said direction in O.A. No. 673/2018, the Government of Odisha in Forest & Environment Department is pleased to constitute a "River Rejuvenation Committee (RRC)".

1. The Director, Env-cum-Spl. Secy. to Govt., Forest & Environment Department Member
2. Director, Municipal Administration, H & U.D. Department (Urban Development) Member
3. Director of Industries, Killa Maidan, Buxi Bazar, Cuttack Member
4. Member Secretary, State Pollution Control Board, Odisha, Bhubaneswar Member Convener

The Committee shall prepare an Action Plan for rejuvenation of rivers in the State and shall also monitor execution of the Action Plan. It shall function under the overall supervision and coordination of the Addl. Chief Secretary, Forest & Environment, Government of Odisha.

By order of the Governor
(S.C. Mahapatra)
(Addl. Chief Secretary to Government)

Memo No. 24427 /F&E, dt. 12.11.18
Copy with soft copy of the notification forwarded to the Director, Printing, Stationery & publication, Odisha, Cuttack with a request to kindly publish this notification in the next issue of Extraordinary Gazette of Odisha and supply 100 copies to this Department.

50
F&E
12.11.18

24428 /F&E, dt. 12.11.18
Director, Env-cum-Spl. Secy. to Government
Copy forwarded to all members of the Committee for information and necessary action.

24429 /F&E, dt. 12.11.18
Director, Env-cum-Spl. Secy. to Government
Copy forwarded to all departments of Government for information and necessary action.

Director, Env-cum-Spl. Secy. to Government

Notification for constitution of
River Rejuvenation Committee

GOVERNMENT OF ODISHA
FOREST & ENVIRONMENT DEPARTMENT

OFFICE ORDER
Dated, Bhubaneswar, the 24.11.18

ENV-1-2/2018 25341 /F&E, In pursuance of the directions of the Hon'ble National Green Tribunal, Principal Bench, New Delhi dated 20th September, 2018 at Para 50(iii) of O.A. No. 673/2018 read with Para 50(vii) of O.A. No. 138 of 2016, the Government of Odisha in Forest & Environment Department is pleased to set up Special Environment Surveillance Task Force with the following members.

1. District Magistrate Member
2. District Superintendent of Police Member
3. Regional Officer of State Pollution Control Board Member
4. One person to be nominated by Dist. Judge in his capacity as Chairman of Legal Services Authority Member

The Task Force shall ensure that no illegal mining takes place in river beds of such polluted stretches and shall identify persons responsible for violation of law so that action can be taken.

(S.C. Mahapatra)
(Addl. Chief Secretary to Government)

By Order of the Govt.

Memo No. 25341 /F&E, dt. 24.11.18
Copy forwarded to all District Collectors with a request that steps may kindly taken to comply with the direction of the Hon'ble Tribunal and to furnish Action Taken Report to this Department.

Director, Env-cum-Spl. Secy. to Government

Memo No. 25342 /F&E, dt. 24.11.18
Copy forwarded to all departments of Government for information and necessary action.

Director, Env-cum-Spl. Secy. to Government

Notification for constitution of
Special Environment
Surveillance Task Force

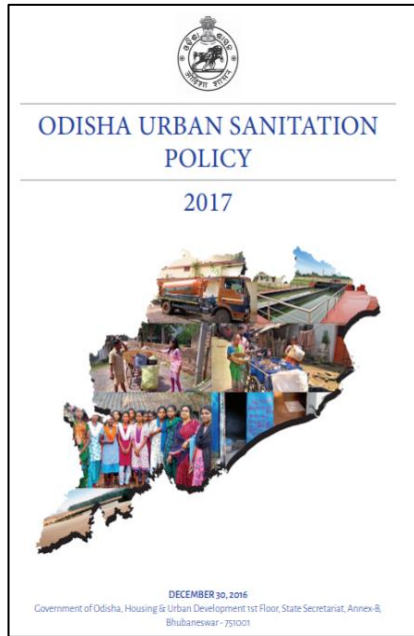
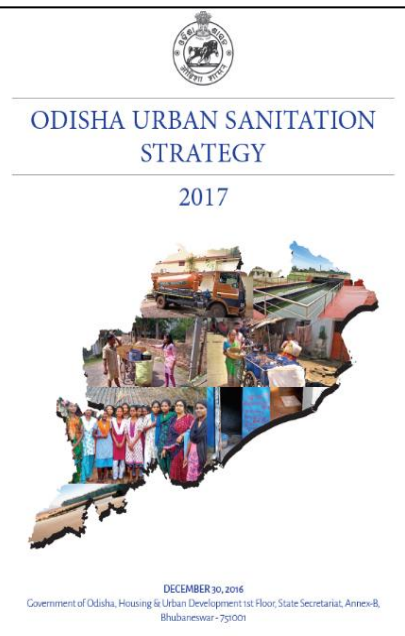
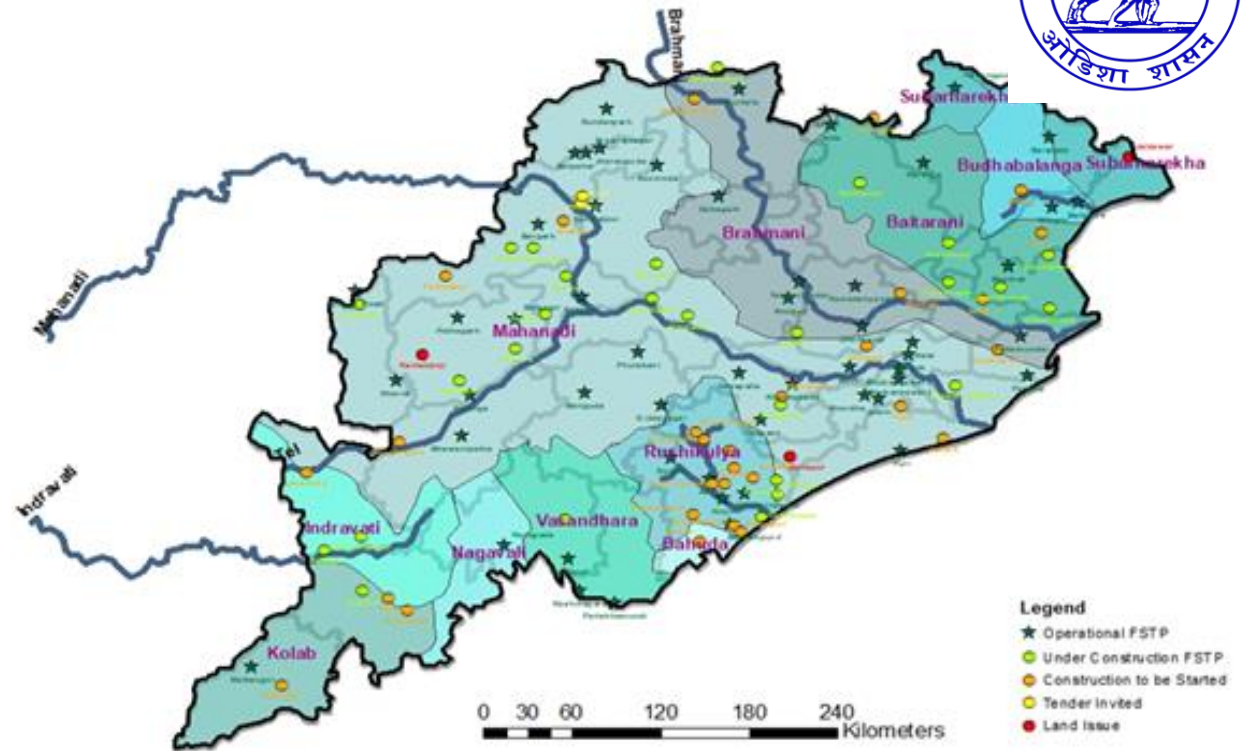
DECENTRALISED LIQUID WASTE MANAGEMENT IN ODISHA



UNIVERSAL SANITATION: FSM

Sewage System not suitable for retrofitting a Functional City

- Absence of Public Will
- Higher Land Requirement for Pumping Station & STP
- Extremely Complex Construction
- High CapEx & OpEx
- Post Construction Connection issues
- Time Consuming- Construction & Operationalization



Sl. No.	Status of Septage Management in 115 ULBs	No.	Capacity (in KLD)
1	Septage generated in 115 ULBs*		1136
	Functional SeTPs	119	2057
2	Under Construction SeTPs	1	30
	Total Capacity of SeTPs in 115 ULBs	120	2087

UNIVERSAL SANITATION: FSM



Scheme for Safety & Dignity of Core Sanitation Workers

To ensure protection & welfare of core sanitation workers dealing with faecal matter in toilets/ septic tank/ sewer and treatment facilities.

Regulating core sanitation work of both government and private agencies

Special category of higher wages

Special risk & hardship allowance

Housing and two-wheeler subsidy

Mandating use of personal protective equipment

Moving towards mechanised cleaning

Free health care facilities

Illness allowance to compensate for injury/accidents

Free education of children upto post-graduation level

EPF, insurance & retirement benefit

Setting up of Emergency Response Sanitation Unit



Ease of FSM service

- Online FSM service booking through **SUJOG Portal**

Property Tax	Trade License	Water and Sewerage	Online Building Plan Approval
Marriage Registry	Financial Budget & Accounting	Public Grievance Redressal	Fecal Sludge Mgmt



- Covers all 30 districts
- 2 Million+ Citizens
- 480K Applications
- >200 Crores in Revenue

COMMUNITY ENGAGEMENT



SeTP Handover to MSGs in Sambalpur



Training of MSGs for SeTP O&M in Sorada



SeTP handover to TG Group in Cuttack



MSGs in Action- SeTP Berhampur

- Mission Shakti SHGs and Transgender Groups** engaged in entire value chain
- 109 plants** are being managed by **Women and Transgender Groups**
- Technical Resources** deployed at all SeTPs for support in Testing & O&M
- Social Security & Health Benefits** extended to Core Sanitation Workers- through GARIMA

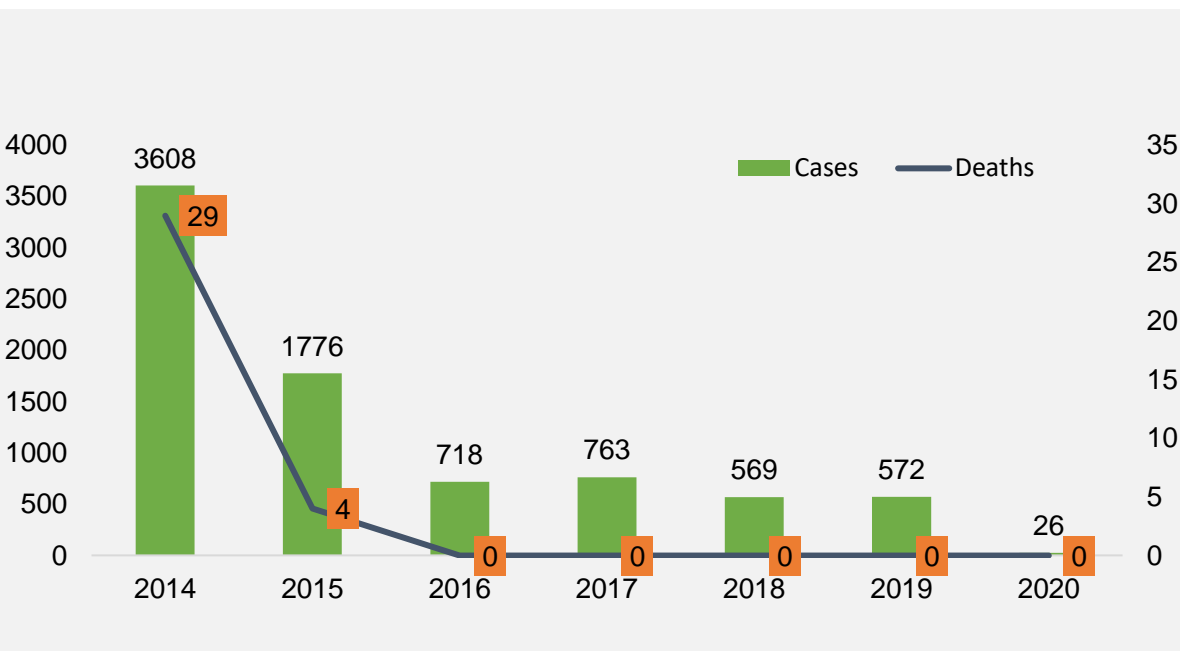
WALL PAINTINGS FOR AWARENESS CREATION



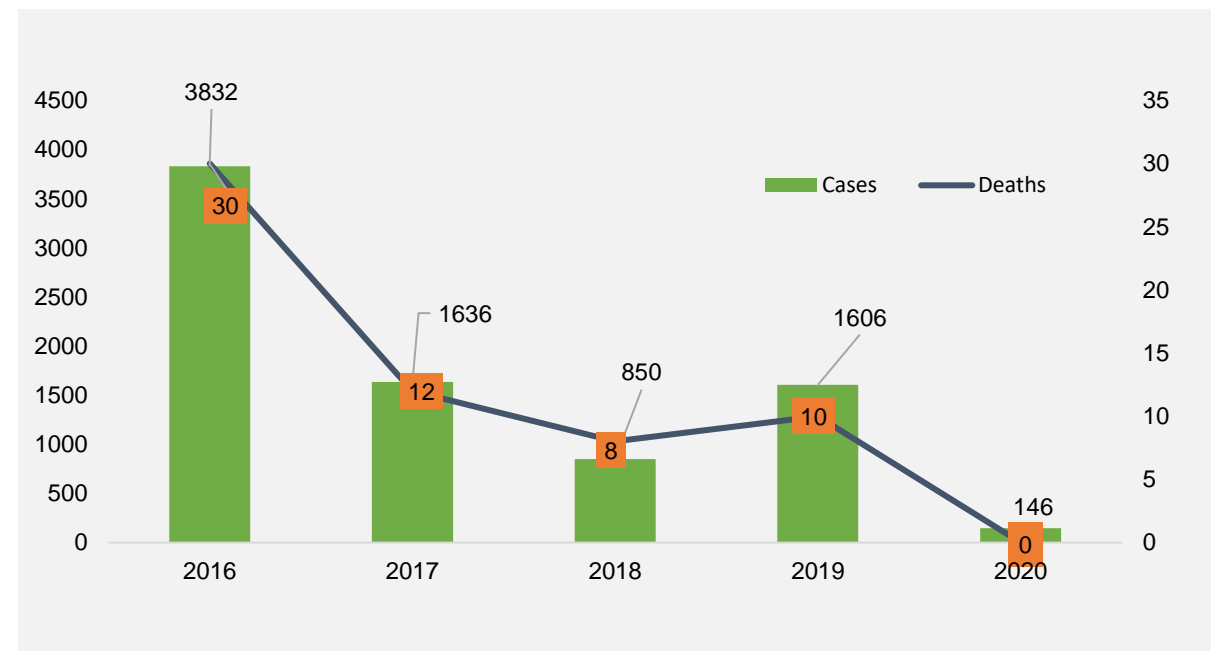
PUBLIC HEALTH IMPLICATIONS



Reported Jaundice cases & deaths in Odisha



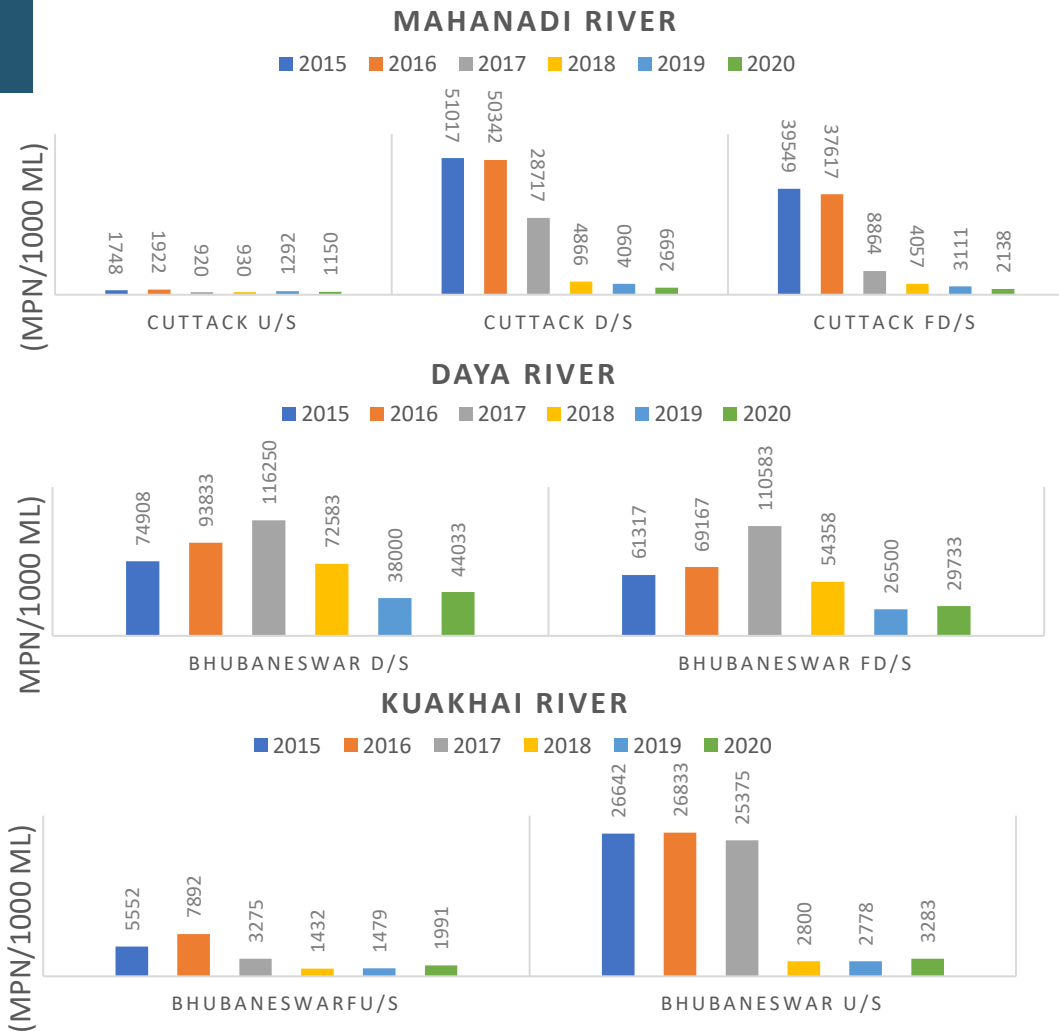
Diarrhea Outbreaks With Cases & Deaths



IMPACT ON THE RIVER POLLUTION



Decline in river pollution as recorded by the CPCB (2020)



Source: <https://cpcb.nic.in/openpdf.php?id=UmVwb3J0RmlsZXMTQ5OF8xNjcyOTg4MDQ1X21lZGlhcGhvdG8xMjk5NS5wZGY=>

Decline in Severity in pollution on the river stretches as recorded by CPCB (2022)*

State-wise and Priority-wise of polluted river stretches identified during assessment Year 2018 and 2022

Annexure IX

State/ UT	Priority I			Priority II			Priority III			Priority IV			Priority V			Total		
	2018	2022	Variation	2018	2022	Variation	2018	2022	Variation	2018	2022	Variation	2018	2022	Variation	2018	2022	Variation
ANDHRA PRADESH	0	1	↑	0	0	—	0	0	—	2	1	↓	3	1	↓	5	3	↓
ASSAM	3	1	↓	1	0	↓	4	0	↓	3	0	↓	33	9	↓	44	10	↓
BIHAR	0	0	—	0	1	↑	1	2	↑	0	7	↑	5	8	↑	6	18	↑
CHHATTISGARH	0	0	—	0	1	↑	0	0	—	4	2	↓	1	3	↑	5	6	↑
DAMAN AND DIU, DADRA AND NAGAR HAVELI	1	0	↓	0	0	—	0	1	↑	0	0	—	0	0	—	1	1	—
DELHI	1	1	—	0	0	—	0	0	—	0	0	—	0	0	—	1	1	—
GOA	0	0	—	0	0	—	1	0	↓	2	1	↓	8	5	↓	11	6	↓
GUJARAT	5	6	↑	1	1	—	2	1	↓	6	1	↓	6	4	↓	20	13	↓
HARYANA	2	2	—	0	1	↑	0	0	—	0	0	—	0	0	—	2	3	↑
HIMACHAL PRADESH	1	4	↑	1	0	↓	1	0	↓	0	1	↑	4	4	—	7	9	↑
JAMMU & KASHMIR	0	0	—	1	0	↓	2	2	—	2	4	↑	4	2	↓	9	8	↓
JHARKHAND	0	0	—	0	0	—	0	1	↑	3	2	↓	4	6	↑	7	9	↑
KARNATAKA	0	3	↑	0	0	—	4	0	↓	7	3	↓	6	11	↑	17	17	—
KERALA	1	0	↓	0	0	—	0	1	↑	5	2	↓	15	15	—	21	18	↓
MADHYA PRADESH	3	2	↓	1	0	↓	1	1	—	3	5	↑	14	11	↓	22	19	↓
MAHARASHTRA	9	4	↓	6	5	↓	14	18	↑	10	17	↑	14	11	↓	53	55	↑
MANIPUR	0	0	—	1	0	↓	0	0	—	0	2	↑	8	11	↑	9	13	↑
MEGHALAYA	2	2	—	0	0	—	0	0	—	3	1	↓	2	4	↑	7	7	—
MIZORAM	0	0	—	0	0	—	1	0	↓	3	2	↓	5	1	↓	9	3	↓
NAGALAND	1	0	↓	0	0	—	1	1	—	2	0	↓	2	3	↑	6	4	↓
ODISHA	1	1	—	0	0	—	3	0	↓	2	3	↑	13	3	↓	19	7	↓
PUDUCHERRY	0	0	—	0	1	↑	0	1	↑	1	1	—	1	0	↓	2	3	↑

ONGOING ENDAVOURS



**Urban-Rural Convergence in
FSSM: First In The Country**



**Greywater Pilot Project Implementation in
Jatni Municipality**

Thank you

