

EDITORIAL: INDIAN EXPRESS

GENERAL STUDIES 3: ENVIRONMENT TOPIC: WATER POLLUTION

DATE: 15.03.2025

Rivers in peril: How pollution endangers India's water lifelines

Water Pollution in India:

• A CPCB report informed that during the Maha Kumbh, water in Prayagraj did not meet bathing water quality standards due to high fecal coliform levels.

Rivers in India:

- Rivers are integral to India's culture and ecosystem, but pollution continues to harm them.
- India was one of the first countries to recognize rivers as "living entities," but pollution levels are rising.

Water Quality Assessments:

- A 2022 CPCB report found 311 polluted river stretches across 279 rivers in India.
- Maharashtra has the highest number of polluted stretches (55), and Cooum River in Tamil Nadu is the most polluted.

Pollution Indicators:

- **Biological Oxygen Demand (BOD)**: A BOD higher than 3 mg/L means the water is unsafe for bathing.
- Fecal Coliform (FC): Levels above 2,500 MPN/100 ml are highly toxic and unsafe for human use.

River Ganga's Pollution:

• During the Maha Kumbh Mela, the CPCB reported that the Ganga had dangerously high fecal coliform levels in Prayagraj.

Main Causes of River Pollution:

- Untreated Sewage: Over 60% of sewage in India is released untreated into rivers.
- Industrial Effluents: Untreated industrial wastewater, especially from chemicals, textiles, and tanneries, pollutes rivers.
- **Municipal Solid Waste**: Millions of tons of waste are dumped into rivers, blocking water flow and damaging ecosystems.
- Agricultural Runoff: Pesticides and fertilizers from agriculture pollute water bodies, leading to eutrophication.

P.L. RAJ IAS & IPS ACADEMY | 1447/C, 3rd floor, 15th Main Road, Anna Nagar West, Chennai-40. Ph.No.044-42323192, 9445032221 Email: plrajmemorial@gmail.com Website: www.plrajiasacademy.com Telegram link: https://t.me/plrajias2006 YouTube: P L RAJ IAS & IPS ACADEMY



• Sand Mining and Encroachments: These disrupt river flow and contribute to pollution.

Legal Framework:

- Water (Prevention and Control of Pollution) Act, 1974: Established CPCB and SPCBs for pollution control.
- Environment Protection Act, 1986: Covers environmental protection and industrial discharge standards.
- National Water Policy, 2012: Focuses on safeguarding water bodies and tackling pollution.

River Rejuvenation Programs:

- Ganga Action Plan (GAP): Launched in 1985 to improve Ganga's water quality, but had limited impact.
- Yamuna Action Plan: Started in 1993 but failed to reduce pollution significantly.
- Namami Gange Programme (NGP): Launched in 2014, focused on cleaning Ganga but still faces
 issues with encroachments and industrial waste.

Challenges in Fund Utilization:

As of December 2024, less than half of the targeted ₹19,271 crores for NGP had been spent.

Way Forward:

- Community Participation: Encourage community involvement in waste management to reduce pollution.
- **Technological Advancements**: Use technologies like AI for real-time pollution monitoring, as done in Germany.
- **Strict Penalties**: Enforce penalties for industries discharging untreated waste into rivers, as practiced in Sweden and the Netherlands.
- Sand Mining & Encroachment Control: Set up local committees to monitor sand mining and prevent riverbank encroachments, as done in Kerala.
- Effective Fund Utilization: Ensure transparent use of funds allocated for river rejuvenation programs.

Conclusion:

- Rivers are essential for human life, but pollution continues to rise.
- Combating pollution requires stricter laws, better awareness, and advanced technology to ensure cleaner rivers and a healthier nation.

SINCE 2006

Source: <u>https://indianexpress.com/article/upsc-current-affairs/upsc-essentials/rivers-in-peril-how-pollution-endangers-indias-water-lifelines-9883074/</u>

P.L. RAJ IAS & IPS ACADEMY | 1447/C, 3rd floor, 15th Main Road, Anna Nagar West, Chennai-40. Ph.No.044-42323192, 9445032221 Email: plrajmemorial@gmail.com Website: www.plrajiasacademy.com Telegram link: https://t.me/plrajias2006 YouTube: P L RAJ IAS & IPS ACADEMY