

# INFORMATION DASHBOARD

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NATIONAL  
CENTRE FOR  
RIVER  
RESEARCH

GANGA  
AQUALIFE  
CONSERVATION  
MONITORING  
CENTRE

WILDLIFE  
INSTITUTE  
OF INDIA,  
DEHRADUN

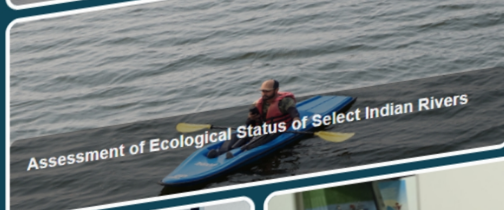
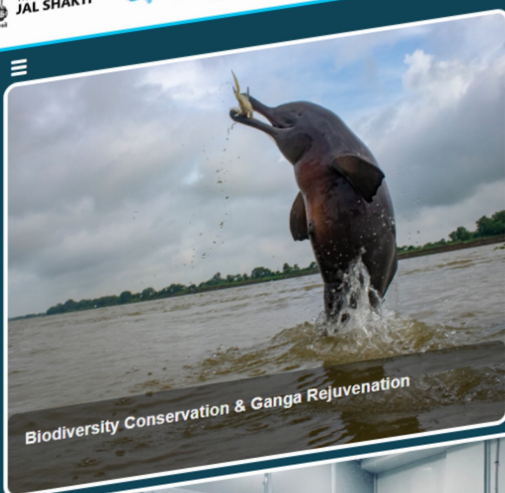
National Centre for River Research  
Ganga Aqualife Conservation Monitoring Centre  
Wildlife Institute of India, Dehradun



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Wildlife Institute of India

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The Ganga Aqualife Conservation Monitoring Centre (GACMC) is based at the Wildlife Institute of India (WII), Dehradun which provides information on the Ganga River and its tributaries for river biodiversity conservation. Established through the collaboration between the National Mission for Clean Ganga (NMCG) and WII, the GACMC was created to promote science-based ecological restoration of the Ganga River under the *Namami Gange* Programme in line with *Aviral* and *Nirmal Dhara*. One of the centre's notable achievements is the completion of the comprehensive ecological monitoring of Ganga River and its major tributaries, creating a cadre of trained personnel dedicated to river biodiversity conservation and engaging a diverse group of stakeholders for promoting river conservation. Through these initiatives, the GACMC plays a vital role in supporting the initiatives of Government of India in safeguarding the Ganga River's unique aquatic ecosystem.

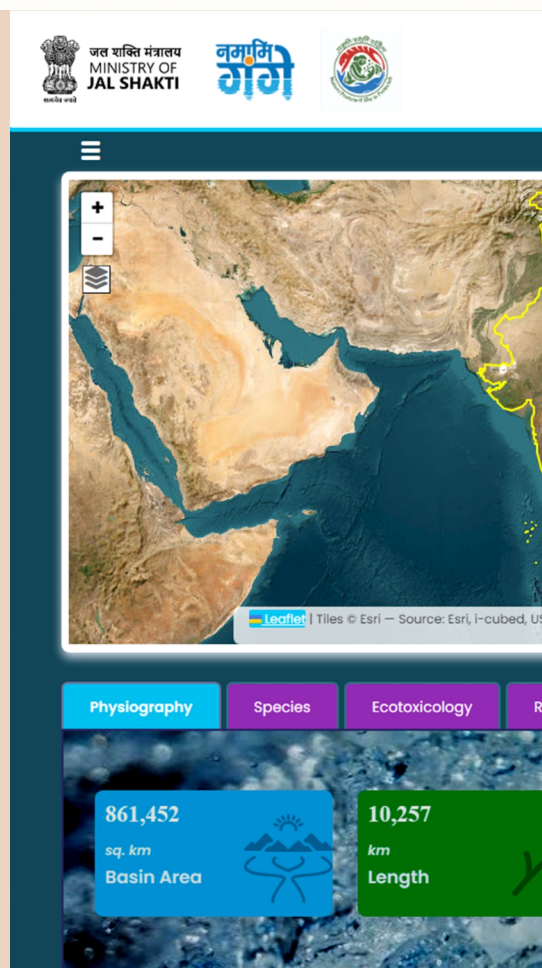
Subsequently, with further financial assistance from the National River Conservation Directorate (NRCD), Ministry of Jal Shakti, Government of India, this Centre was upgraded to the National Centre for River Research (NCRR) to cater to the need for river conservation in India .

The information on activities conducted by NCRR is available through <https://www.rivres.in>. The dashboard provides the snapshot of the project activities such as (a) Biodiversity Conservation and Ganga Rejuvenation, (b) Jalaj - Connecting River and People, (c) Assessment of Ecological status of Select Indian Rivers, (d) Academics and Training activities undertaken by NCRR, (e) Laboratories and other facilities available, and (f) Information Centre which collect, collates and disseminate information on river conservation.

## BIODIVERSITY CONSERVATION AND GANGA REJUVENATION

This section provides information on the Ganga River and its biodiversity including biodiversity of its major tributaries such as Yamuna, Ramganga, Gomti, Ghaghra, Gandak, Kosi, Mahananda, Rupnarayan, Son, etc. It provides information on the river's biophysical status which includes basin area, length, biogeographic zones and biotic province, forest cover of the basin, major dams and barrages present along the river. It also gives present status of the following species associated with the rivers. The species are Gangetic dolphin, otters, Indian skimmer, black-bellied tern, gharial, mugger, freshwater turtles, amphibians and fishes. The information on water quality and ecotoxicological parameters such as Dissolved oxygen (DO), pH, nitrate content, conductivity, heavy metals, organochlorine pesticides (OCP) are also given.

Additionally, it provides information on aquatic wildlife rescue centres and their activities, capacity building activities undertaken, community based conservation and nature interpretation centres such as Ganga Darpan, Anubhuti, Ganga Avlokan and a series of low-cost interpretation Centres known as Jalmala Samvaad.



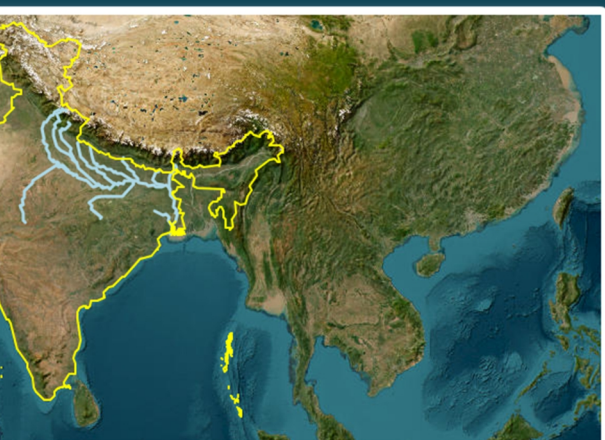




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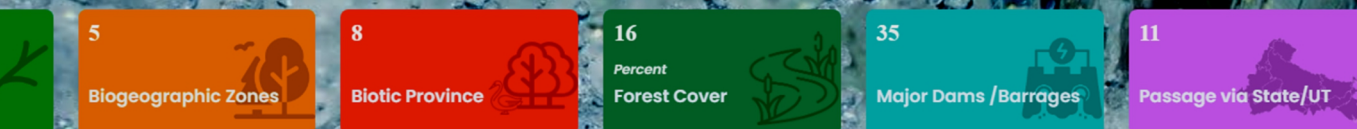


SDA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGN, IGP, UPR-EGP, and the GIS User Community



- Select River -

Rescue Capacity Building Community Based Conservation Nature Interpretation







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## JALAJ-CONNECTING RIVER AND PEOPLE

The Jalaj project was undertaken under the NMCG to engage local communities in Ganga River conservation through sustainable livelihood development so as to contribute to Government of India's Arth Ganga Programme. This is recognised by district as well as state administrations all over the Ganga Basin States. This project is replicating and upscaling the pilot conservation efforts in the Ganga basin by linking local livelihoods with the conservation of aquatic species. The dashboard contains the following information about Jalaj.

1. Establishment of Jalaj sites,
2. Beneficiary groups
3. Ganga Praharis and local communities associated
4. Jalaj Products and services
5. Awareness and sensitisation programmes
6. Skill development and marketing
7. Linked self-help groups and their activities



Establishment of Jalaj

Awareness & Sensitization

50

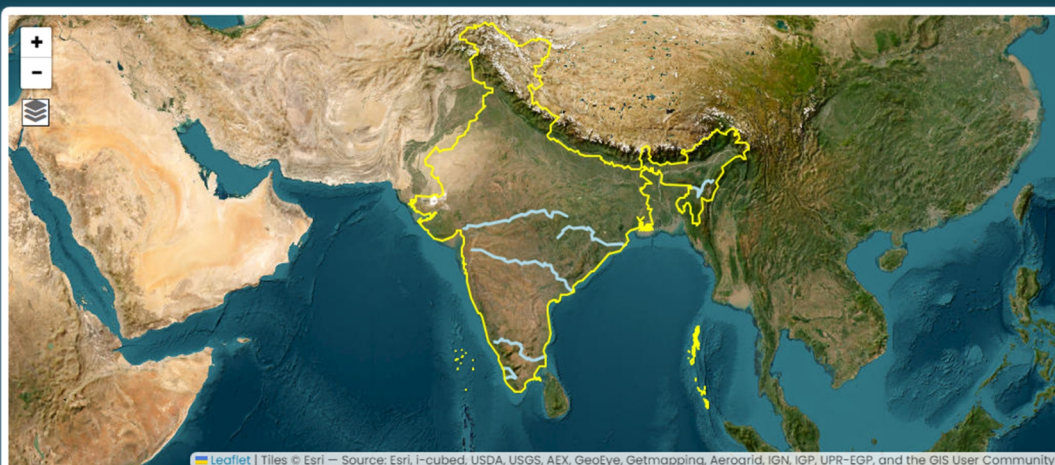
Established Jalaj Sites

62

Beneficiary Groups



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River

Physiography

Species

Ecotoxicology

Awareness Programs

Barak



Cauvery



Godavari



Mahanadi



Narmada



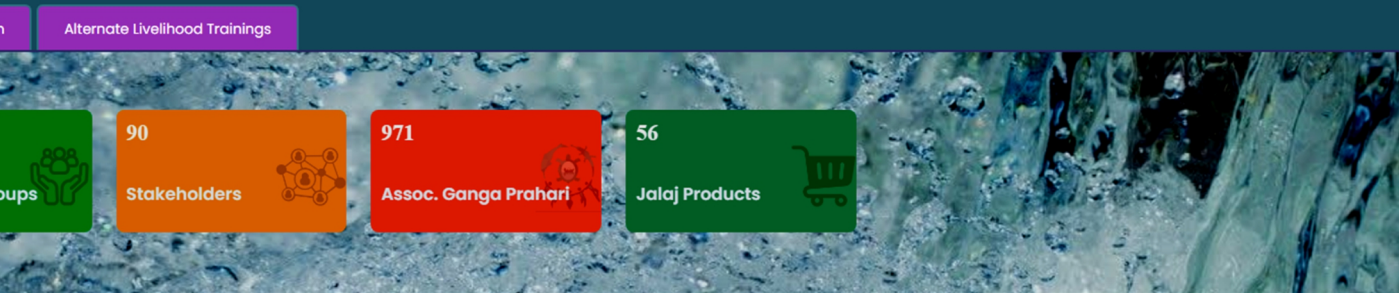
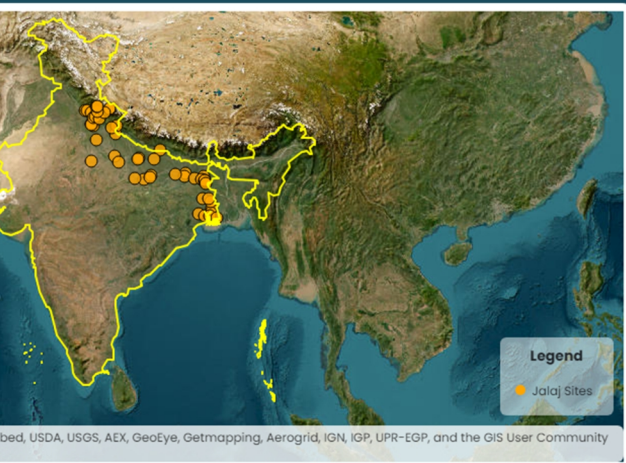
Pamba

ATHAMALLIK  
MAHANADI RIVER





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## ASSESSMENT OF ECOLOGICAL STATUS OF SELECT INDIAN RIVERS

This project provides information on the ecological status of select Indian rivers viz., Barak, Cauvery, Godavari, Mahanadi, Narmada, Periyar and Pamba, for planning river conservation in the face of growing anthropogenic pressures and increased freshwater demand. The dashboard provides a snapshot of basin area, length, biogeographic zones, biotic province, forest cover, passage via States/Union Territories, species conservation values of the rivers wherein the details about the locations of riparian macro fauna such as otter, river lapwing, freshwater turtles, fish, etc. are mentioned. The ecotoxicological parameters such as DO, pH, nitrate, conductivity, heavy metals, pharmaceuticals, plastic additives, endocrine disrupting chemicals, and emerging contaminants are assessed for identification of pollution hotspots.



## ACADEMICS AND TRAINING

This section provides information on M.Sc. course in Freshwater Ecology and Conservation, an innovative programme focused on understanding freshwater ecosystems. NMCG is funding this initiative as part of the Namami Gange Programme. This programme seeks to create a specialized group of freshwater ecologists and biologists who will help manage India's freshwater resources in association with respective agencies managing the river ecosystem in the country.





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[Home](#) >> [Master's in Freshwater Ecology and Conservation](#)

### # Admission to First Batch of M.Sc.




[Academics](#)
[Trainings](#)
[PhD Students Registered](#)



The first batch of students for the M.Sc. course in Freshwater Ecology and Conservation has been selected. The course is a two-year programme designed to create a specialized group of freshwater ecologists and biologists who will help manage India's freshwater resources in association with respective agencies managing the river ecosystem in the country.


Show  entries

Sino	Seat No
1	MSCFEC202400322
2	MSCFEC202400131
3	MSCFEC202400285
4	MSCFEC202400048
5	MSCFEC202400005

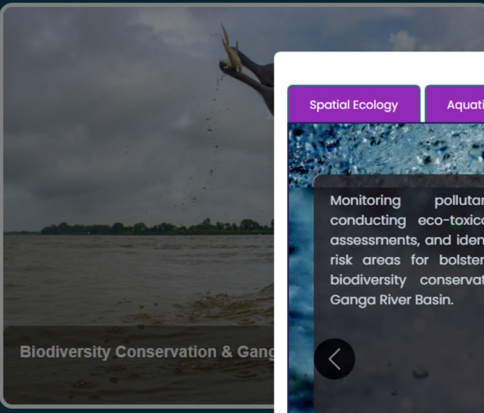




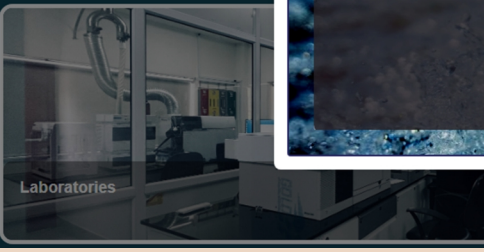
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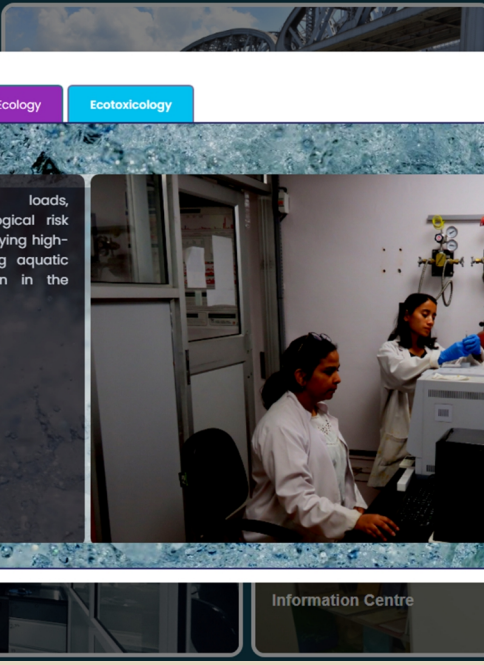
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[Spatial Ecology](#)
[Aquatic Ecology](#)
[Ecotoxicology](#)

Monitoring pollutant loads, conducting eco-toxicological risk assessments, and identifying high-risk areas for bolstering aquatic biodiversity conservation in the Ganga River Basin.



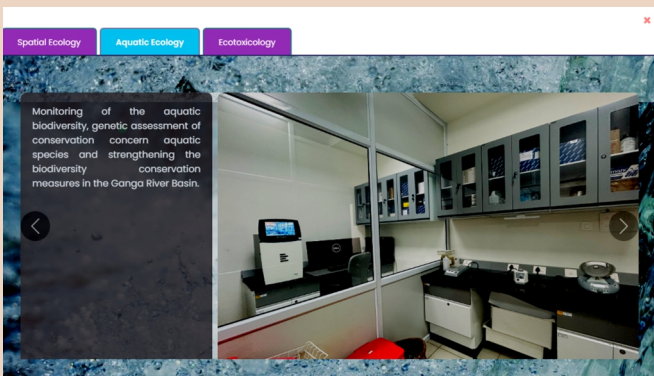
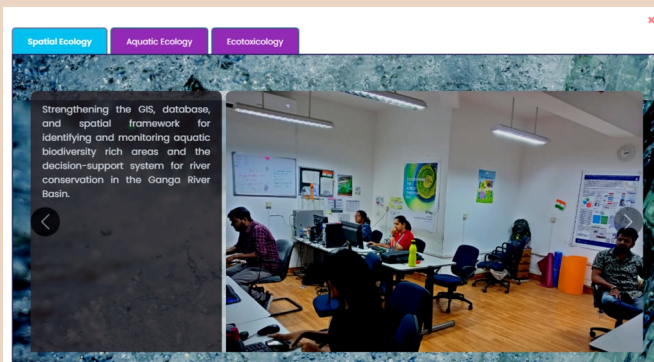
## MSc. Course in Freshwater Ecology and Conservation (2024–26)

The first batch of MSc Freshwater Ecology and Conservation (2024–2026), a pioneering course to understand the nuances of freshwater ecosystems, was initiated. The course is supported by the National Mission for Clean Ganga (NMCG), Ministry of Jal Shakti, Government of India under its Namami Gange Programme. The course aims to develop a cadre of freshwater ecologist and biologist, for managing the freshwater resources and its conservation in India. Meritorious students will gain knowledge on the concepts, principles, techniques, analytical skills and field techniques in Freshwater Ecology and Conservation from eminent scientists and field practitioners in freshwater ecology. The application process for the first batch began on 1st March 2024 and the course began from 1st August 2024, with 10 students.

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Name	
Nishika Yadav	
Nayana Prasanna	
Cherie Joby Achandy	
Priyanjali Singh	
Gayatri Sharma	


## LABORATORIES

The centre houses three laboratories viz., Spatial Ecology, Aquatic Ecology and Ecotoxicology. The spatial ecology lab works on enhancing the geographic information systems, databases, and spatial analysis capabilities to locate and track areas with rich aquatic biodiversity, while improving the decision-support framework for river conservation efforts throughout the river basin. The aquatic ecology lab concentrates on tracking aquatic biodiversity, conducting genetic evaluations of at-risk aquatic species, and strengthening biodiversity protection strategies for the river basin. The ecotoxicology lab focuses on tracking contaminant levels, using cutting-edge technology and methodology, to assess the presence, distribution, bioaccumulation profiles and biomagnification dynamics and bioaccumulation of pollutants in freshwater ecosystems. The primary focus is on identifying and investigating the impact of toxic substances, including heavy metals, pharmaceuticals, plastic additives, endocrine disrupting chemicals, and emerging contaminants, on aquatic biodiversity, food webs, and ecological processes.





This section provides information on scientific literature, reports and other knowledge products, both technical and non-technical, that are associated with river conservation, collated by the NCRR into a comprehensive database. The section has two sub-sections i.e., 'Library' that provides technical reports and books present in the information centre and 'Publications' that deals with research papers and articles generated by NCRR.




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☰

[Publication](#)
[Library](#)


## 2024



**Conservation in action: Cost-effective UAVs and real-time detection of the globally threatened swamp deer (*Rucervus duvaucelii*)**

Ravindra Nath Tripathi, Karan Agarwal, Vikas Tripathi, Ruchi Badola, Syed Ainul Hussain(2024)


[Papers](#)
[Abstract](#)



**Addressing the issues of ghost gear in the Ganga River through an incentive-based institutional mechanism.**

Badola, S., Gill, A. K., Dobriyal, P., Patel, S., Khan, M. Z., & Hussain, S. A. *Frontiers in Conservation Science*, 5, 1341434.


[Papers](#)
[Abstract](#)




**Optimizing Riparian Habitat Conservation: A Spatial Approach Using Aerial and Space Technologies**

Tripathi, R. N., Ramachandran, A., Tripathi, V., Badola, R., & Hussain S. A. (2024). *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. 1–20

[Papers](#)
[Abstract](#)




**Morphometric analysis and LULC change dynamics of Nayar watershed for the sustainable watershed management**




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Home >> Library

### Library

Show 5 entries

Search...

Sino	Title	Authors	Publisher	Year	Pages
1	The ecology and management of wetlands : Ecology of wetlands	Hook, D.D. McKeel, W.H. Smith Jr, H.K. Gregory, J. Burrell, V.G. Devoe Jr, M.R. Sojka, R.E. Gilbert, S. Banks, R. Stolzy, L.H. Brooks, C. Matthews, T.D. & Shear, T.H.	Timber Press Portland, Oregon	1988	592p.
2	The ecology and Management of wetlands: Management, use and value of wetlands	Hook, D.D. McKeel, W.H. Smith Jr, H.K. Gregory, J. Burrell, V.G. Devoe Jr, M.R. Sojka, R.E. Gilbert, S. Banks, R. Stolzy, L.H. Brooks, C. Matthews, T.D. & Shear, T.H.	Timber Press Portland, Oregon	1988	394p.
3	Indian Economic Development and Policy	Brahmananda, P.R. Nanjundappa, D.M. & Narayan, B.K.	Vikas Publishing House Pvt. Ltd.	1979	352p.
4	Taxonomy, Ecobiology and Distribution Pattern of the Brachyuran Crabs of Mangrove Ecosystem in Andaman Islands: Records of the Zoological Survey of India	Roy, Dev M.K. & Das, A.K.	Zoological Survey of India ,Calcutta	2000	185p.
5	Born To Be Good : The science of a meaningful life	Keltner, Dacher.	Norton Paperback	2009	336p.

Sino

Search Title

Search Authors

Search Publication

Year

Pages

Showing 1 to 5 of 618 entries

Previous 1 2 3 4 5 124 Next



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सत्यमेव जयते



Ministry of Environment,  
Forest and Climate Change



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**Wildlife Institute of India**

**National Mission for Clean Ganga,**  
Department of Water Resources,  
River Development & Ganga Rejuvenation,  
Ministry of Jal Shakti, Major Dhyan Chand  
Stadium, India Gate, New Delhi - 110001

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[wii.gov.in/nmcg/national-mission-for-clean-ganga](http://wii.gov.in/nmcg/national-mission-for-clean-ganga)

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