

# नमामि गंगा

पत्रिका

अंक-6

अप्रैल-जून-2018

“We have launched the massive  
Namami Gange initiative.  
This programme, which has already  
started giving results,  
will soon revive  
Ganga - our most precious river.”

माननीय प्रधानमंत्री के  
मोतिहारी दौरे का  
विस्तृत ब्यौरा  
पृष्ठ-14 एवं 15 पर



## राष्ट्रीय स्वच्छ गंगा मिशन

जल संसाधन, नदी विकास एवं गंगा संरक्षण मंत्रालय,  
भारत सरकार





Ganga is a matter of faith for all of us. Our foremost priority is Nirmal Ganga-Aviral Ganga. Government alone cannot maintain the pristine glory of this sacred river. We need people's participation to make this mission a success.



**Shri Nitin Gadkari**

*Minister for Water Resources, River Development & Ganga Rejuvenation, Road Transport & Highways and Shipping, Government of India.*

## Mission Ganga - Marching Ahead

The Mission 'Clean Ganga' is making rapid progress under the dynamic leadership of Hon'ble Minister of WR, RD & GR Shri Nitin Gadkari. The Hon'ble Minister has been holding regular review meetings with all the Central & State Level authorities to speed up the progress of projects and other interventions taken up for rejuvenation of river Ganga. These meetings have resulted in fast tracking the progress on ground & key issues being resolved at the highest levels.

### Glimpses of Review Meetings taken by the Hon'ble Minister for WR, RD & GR

Hon'ble Minister of WR, RD & GR, Shri Nitin Gadkari reviewing the progress of pollution abatement projects in the state of Uttar Pradesh on 25.04.2018 along with Hon'ble MoS, WR, RD & GR, Dr. Satpal Singh, Shri Suresh Khanna, Minister of Public Works Department, Uttar Pradesh, Shri Rajiv Ranjan Mishra, DG, NMCG & other State Government authorities.



Hon'ble Minister WR, RD & GR, Shri Nitin Gadkari took a review meeting on 16.04.2018 to take stock of status of ongoing works in the state of Uttarakhand. During this meeting Dr. Ramesh Pokhriyal Nishank, Hon'ble Member of Parliament & Shri Prakash Pant, Minister of PwJal Uttarakhand were also present.

Review of progress of projects in Bihar, Jharkhand and West Bengal on 24.04.2018 by Hon'ble Minister WR, RD & GR, Shri Nitin Gadkari along with Shri Suresh Kumar Sharma, Minister of PWD, Govt. of Bihar.



Hon'ble Minister of WR, RD & GR, Shri Nitin Gadkari briefing the media in New Delhi and in 5 cities along with Hon'ble Minister of DWS, Sushree Uma Bharti and Minister of State WR, RD & GR, Shri Aruj Ram Meghwal on the progress of projects under Clean Ganga Mission on 10.5.2018

Review of Yamuna river projects in Delhi by Hon'ble Minister WR, RD & GR, Shri Nitin Gadkari along with Hon'ble Delhi CM, Shri Arvind Kejariwal, JICA, DDA and all other stakeholders on 24.05.2018. The aim is to expedite the progress of infrastructure development and for creating biodiversity and clean and green river front in Delhi.



## From Chief Editor's desk...



**Dear Patrons,**

I am happy to bring to you the 6<sup>th</sup> edition of the Namami Gange newsletter covering the important activities and projects which have been taken up for Ganga rejuvenation during the months of April to June 2018. We are also proud to roll out the new and fresh Namami Gange logo, which depicts Ganga in its true white and blue form symbolizing energy and purity. This logo, which has been finalized after painstaking process of going through a number of options, would surely endear one and all to the theme behind the mission.

National Mission for Clean Ganga (NMCG) continues to forge ahead in its journey of turning around the health and pristine glory of river Ganga. It was not far back that the rejuvenation of the river and its tributaries was considered as a mission impossible. Today, the clean and green Ganga is turning out to be a Mission Possible and with the whole heated support of one and all in the country and even abroad. Such is the reverence for the river that people from different walks of life are keen and enthusiastic to lend their support in whatever way they can to this mission.

I would like to inform our readers that projects and interventions taken up for wholesome rejuvenation and management of Ganga basin are progressing at a frenetic pace in all the states on main stem of river Ganga. The projects are at different stages of completion and we are constantly engaging with all our executing agencies, stakeholders and other entities to ensure that the interventions continue on the right track. We have now truly shifted to Ganga basin and fulsome rejuvenation approach rather than restricting this mission to one river and that too municipal sewage treatment which has been the approach in the earlier attempts to clean Ganga.

It's no mean feat that the sincere efforts being made by this mission are now finding acceptability at the highest levels in the country. The Hon'ble Prime Minister in his address to the nation in the recent past has recognized the progress of Namami Gange program. The Minister of Water Resources, River Development and Ganga Rejuvenation has continued to give us unconditional support and has regularly reviewed the progress of projects with all Ganga basin states which has given a greater impetus to timely completion of the programs. This support has given us tremendous confidence and vigor to make this a truly mission possible.

I would like to make a special mention of our outreach initiatives and the response to our program,

which we are receiving from various quarters. It has been heartening to note that the sustained outreach activities amongst the general public has changed the perception and the mission Clean Ganga is now becoming a peoples' movement where right from children to youth and even the elderly are now realizing the importance of restoring the pristine glory of the river, which is held in the highest esteem. The mission activities are also gaining greater acceptability amongst various sections of the society and even the perception of media seems to be turning around from gross negative to a more balanced reporting. The mission would continue to engage with all stakeholders and at every level to protect the river and its basin.

Our efforts to engage the Corporate sector in Ganga rejuvenation are also bearing fruits as not only is there keen interest amongst them to lend their might to the cause of clean Ganga but action is also under way to sponsor Ganga rejuvenation projects under Corporate Social Responsibility (CSR) mandate. The Clean Ganga Fund continues to receive donations from various entities and individuals and we are grateful to some of our donors who regularly contribute to this fund as a matter of their faith and reverence to this holy river. We would continue to seek liberal donations to the Clean Ganga Fund to sponsor more projects and engage with our Corporate fraternity for greater support and assistance in this national cause.

The Namami Gange News letter while giving us an opportunity to convey the interventions taken up by NMCG also provides a window for us to get feedback on the mission activities and suggestions for making improvements. This edition brings you closer to various Ganga rejuvenation projects being taken up at various levels and the key activities and happenings of the mission in the last quarter. The new look edition in white and blue in sync with the new energetic Namami Gange logo for the first time ever showcases pictures of actual project sites across various states depicting the pace of ongoing works.

I hope you would like this edition and will leave you wanting for more about this mission and also urge you to join hands with us in this most noble mission to clean the holy and mighty river Ganga. Do write to us on this edition and the mission initiatives.

Jai Hind



Rajiv Ranjan Mishra, DG,  
National Mission for Clean Ganga



# हमारा ध्येय: निर्मल गंगा, अविरल धारा, स्वच्छ किनारा।

पत्रिका अंक-6 अप्रैल-जून, 2018

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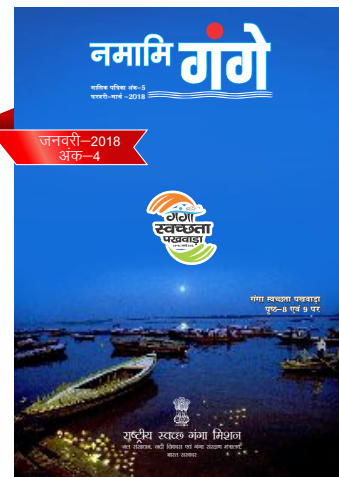
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## Feedback on Namami Gange Patrika January 2018



This patrika effectively shows the sincere efforts and activities of NMCG team towards cleaner ganga. I would like to congratulate the Namami gange team towards their efforts for rejuvenation of river ganga. My good wishes to the whole team for future prospectives.

**Somendra Singh, C.S.J.M.U, Kanpur**



I appreciate the sincere efforts of namami gange team towards the rejuvenation and beautification of river ganga. The monthly patrika is a nice effort for creating awareness and showing the efforts and activities of national mission for clean ganga team towards cleaner ganga. Good wishes to the whole team.

**Ankita Verma, C.S.J.M.U, Kanpur**



Namami gange is the excellent initiative towards the cleaning of our mother Ganga. Namami gange Patrika is gives wonderful overview of events and activities of National Mission of Clean Ganga. The efforts made by the team namami gange is really appreciating. It's not only the responsibility of namami gange team to clean Ganga, it's ours. Good luck!!!! and looking forward for clean Ganga.

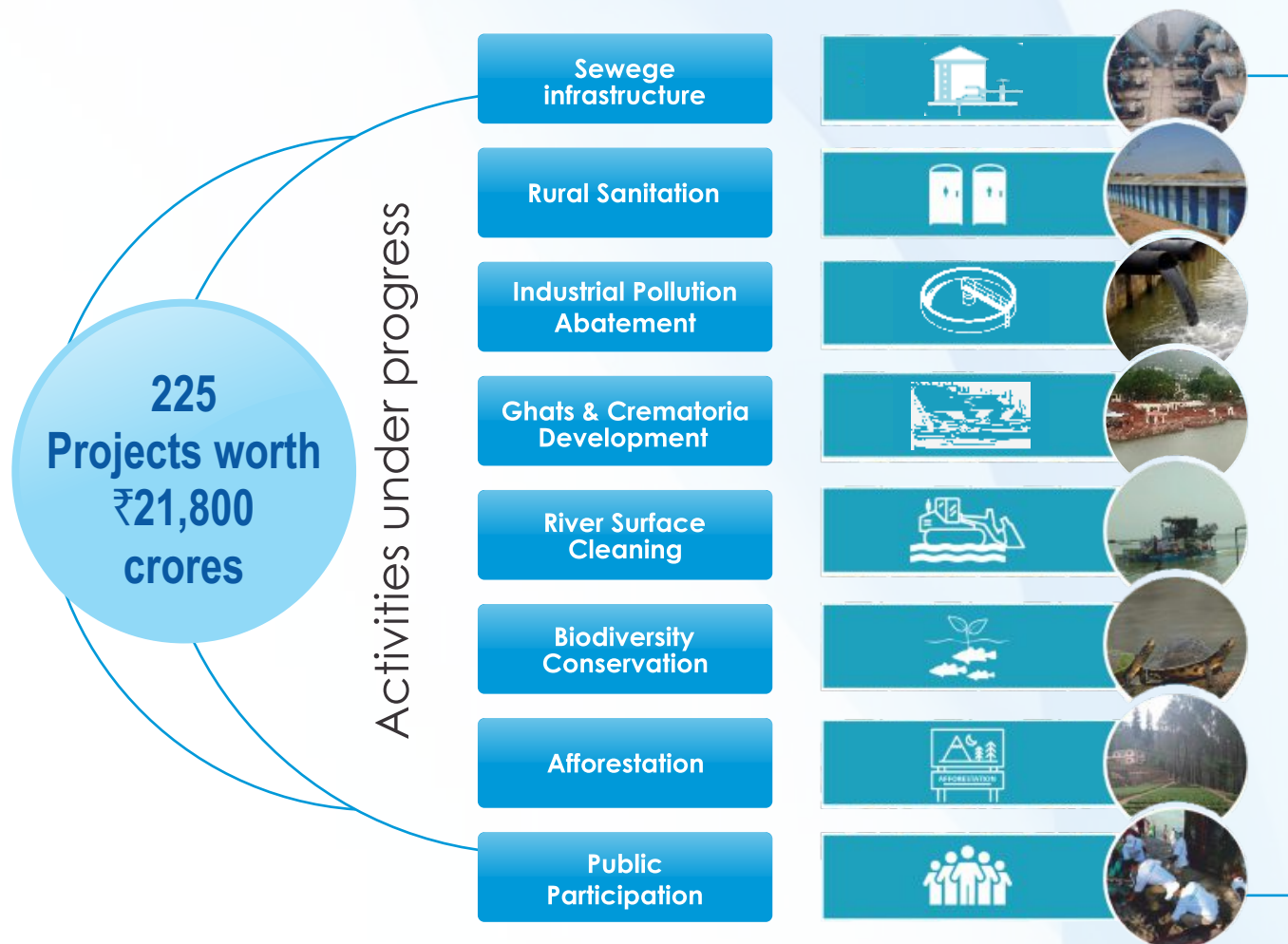
**Shivani Gupta, C B P Govt Engg. College, Delhi**



The patrika excellently brings forward all the advancements that Namami Gange has brought forward in the technologies for Ganga Cleaning. I was impressed by the fact that Namami Gange has been awarded nationally as well as internationally. The magazine was able to convey the developments in different towns regarding Ganga Conservation. The quiz section of the patrika draws my special interest. I heartily congratulate the team for all these amazing efforts in preserving the holy river.

**Naman Jain, Delhi Technological University, New Delhi**

## Project Fact File

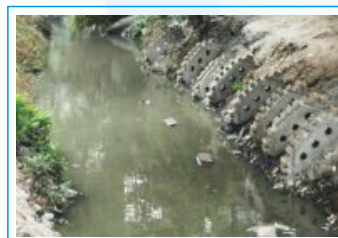


## Ongoing Projects

S. No.	Projects Undertaken	No.	Sanction Cost (₹ in Cr)
<b>Pollution Abatement Projects</b>			
1	Sewage Infrastructure (94 on Ganga, 8 on tributaries)	104	17,366.28
2	Bioremediation	8	26.94
3	Modular STPs –Decentralised Treatment	20	410
	<b>Sub Total</b>	<b>132</b>	<b>17,803.22</b>
4	Rural Sanitation (4465 villages along Ganga)	1	1,426.26
5	Industrial Pollution Abatement	4	799.18
	<b>Sub Total</b>	<b>5</b>	<b>2,225.44</b>
	<b>Total</b>	<b>137</b>	<b>20,028.66</b>
<b>River Front, Ghats &amp; Crematoria Projects</b>			
6	River Front Development	2	270.55
7	Ghats & Crematoria (Old)	24	204.39
8	Ghats & Crematoria (New)	37	721.94
9	Ghats Cleaning	1	15
10	River Surface Cleaning	1	55.24
	<b>Sub Total</b>	<b>65</b>	<b>1,267.12</b>
<b>Afforestation and Biodiversity Conservation</b>			
11	Biodiversity	4	31.91
12	Afforestation	11	113.28
	<b>Sub Total</b>	<b>15</b>	<b>145.19</b>
<b>Other Projects</b>			
13	Institutional Development	5	182.47
14	Project Implementation Support / Research & Study Projects	2	9.96
15	Composite Ecological Task Force	1	167
	<b>Sub Total</b>	<b>8</b>	<b>359.43</b>
	<b>Grand Total</b>	<b>225</b>	<b>21,800.4</b>



Sewage Infrastructure Projects



Bioremediation



Triveni Ghat SPS, Rishikesh



# NMCG- 'Making Mission Clean Ganga Possible'

## Ongoing Projects in Pictures



**Sarai STP, Haridwar**



**Jagjeetpur STP, Haridwar**



**Beur STP, Patna**



**Uttarkashi STP**



**Anupshahar STP**



**SPS at Muni Ki Reti**



**Sisamau Nala, Kanpur**



**Ramana STP, Varanasi**



**Chandi Ghat, Haridwar**



**Bhogpur Crematorium, Haridwar**



**PWD-SPS, Haridwar**



**Sewerage Scheme & STP  
at Halishahar**

NMCG continues to engage with a variety of stakeholders for taking up new projects, interventions and activities relating to Ganga rejuvenation agenda. In the past quarter, a number of projects have been approved. Besides, NMCG participated in various exhibitions and seminars showcasing its interventions and engaging with multiple entities.

### New projects and interventions of NMCG

Details of projects sanctioned by Executive Committee of NMCG in April-June 2018.



11th EC Meeting-27.04.2018



12th EC Meeting-29.05.2018



13th EC Meeting-26.06.2018

- Namami Gange Awareness Programme on DD Network: Awareness Rising and Public Information.  
Estimated Cost – ₹9.85 crores
- Generation of High Resolution DEM and GIS Ready Database for part of River Ganga to be developed by Survey of India.  
Estimated Cost – ₹86.84 crores
- Interception and Diversion of sewerage network system including repair and renovation of existing lifting station and new STP at Hooghly- Chinsurah Municipality Area, West Bengal.  
Estimated Cost – ₹160 crores
- Interception and Diversion of sewerage network along with STP by using the existing pumping stations for Maheshtala town, West Bengal.  
Estimated Cost – ₹198.43 crores
- Proposal for strengthening of laboratories of State pollution Control Boards of five Ganga basin states for water quality monitoring.  
Estimated Cost – ₹85.87 crores
- Interception and Diversion of drains discharging in Saryu River at Ayodhya, District Faizabad, Uttar Pradesh.  
Estimated Cost – ₹37.67 crores
- Interception and Diversion network for existing drains falling in river Ganga including sewage treatment at Jangipur Municipality, West Bengal.  
Estimated Cost – ₹68.47 crores
- Eco-skills and Capacity Building Training Program for Ganga Mitra (Task force at grass root level) to help in Rejuvenating the Ganga and its associated Water Bodies.  
Estimated Cost – ₹63.07 lakhs
- Interception and Diversion and 25 MLD Sewage Treatment Works at Moradabad, Uttar Pradesh.  
Estimated Cost – ₹118.69 crores
- Ghat Cleaning Project at 4 towns of Bithoor, Kanpur, Allahabad and Mathura-Vrindavan in Uttar Pradesh.  
Estimated Cost – ₹14.27 crores
- Ghat Cleaning Project in Haridwar, Uttarakhand  
Estimated Cost – ₹15.90 crores
- Community Toilets and Urinals for Cleanliness and Sanitation in Kumbh Mela 2019 at Allahabad.  
Estimated Cost – ₹113.00 crores
- Procurement of Dustbins and Lining Bags for Solid Waste Collection during Kumbh Mela 2019 at Allahabad, Uttar Pradesh.  
Estimated Cost – ₹3.60 crores
- Promotion of cultivation of Medicinal Plants along the catchment area of River Ganga from Allahabad to Ballia stretch in Uttar Pradesh.  
Estimated Cost – ₹35.47 crores
- Reconstructing the Ganga of the past through Corona Archival imagery by IIT Kanpur.  
Estimated Cost- ₹40.97 Lakhs



# National Mission for Clean Ganga 'Driving the Agenda'



Shri U.P. Singh, Secretary WR, RD & GR along with Shri Rajiv Ranjan Mishra, DG, NMCG & Shri Hitesh Makwana, ED (Projects) NMCG attending Indo Dutch seminar on 24<sup>th</sup> May, 2018 in the august presence of Hon'ble PM of Netherlands Mr. Mark Rutte.



NMCG engaging with Israel delegation led by Israel Ambassador, Mr. Daniel Camron on 3<sup>rd</sup> May, 2018 for exploring areas of convergence and support for Ganga rejuvenation.



5<sup>th</sup> Edition of Namami Gange News Letter released by Hon'ble Minister, WR, RD & GR, Shri Nitin Gadkari in the presence of Hon'ble MoS WR, RD & GR, Dr. Satpal Singh on 24<sup>th</sup> April, 2018.

Review of Project Status in Uttarakhand by Hon'ble CM, Shri Trivendra Singh Rawat along with Hon'ble Peylal Minister, Shri Prakash Pant, Shri Utpal Kumar Singh, Chief Secretary, Uttarakhand, & Shri Rajiv Ranjan Mishra, DG NMCG on 1<sup>st</sup> May, 2018.



NMCG pavilion at World Environment Day from 2<sup>nd</sup> to 5<sup>th</sup> June, 2018 which was visited by Hon'ble Minister of Environment, Forest and Climate Change, Dr. Harsh Vardhan & Hon'ble MoS, WR, RD & GR, Shri Arjun Ram Meghwal. The pavilion was a hit amongst the children who wanted to know more about Ganga.





Shri Rozy Agarwal, Executive Director(Finance) NMCG interacting with Capital market entities, Institutional Investors & Corporates during Philip India Capital conference in Mumbai on 1<sup>st</sup> June, 2018 with updates on Clean Ganga Projects.



Shri U.P. Singh, Secretary, WR, RD & GR, Shri Rajiv Ranjan Mishra, DG, NMCG and Professor Vinod Tare, C Ganga at an event on World Environment day on 5<sup>th</sup> June, 2018 which was attended by global partners of NMCG and C Ganga.



Shri Rajiv Ranjan Mishra, DG, NMCG, inaugurating NMCG Pavilion during 4<sup>th</sup> Smart Cities India 2018 Expo held from 23<sup>rd</sup> to 25<sup>th</sup> May, 2018 at Pragati Maidan, New Delhi.



Hon'ble Minister WR, RD & GR, Shri Nitin Gadkari launched the Ganga Prahari website on 22<sup>nd</sup> May, 2018.

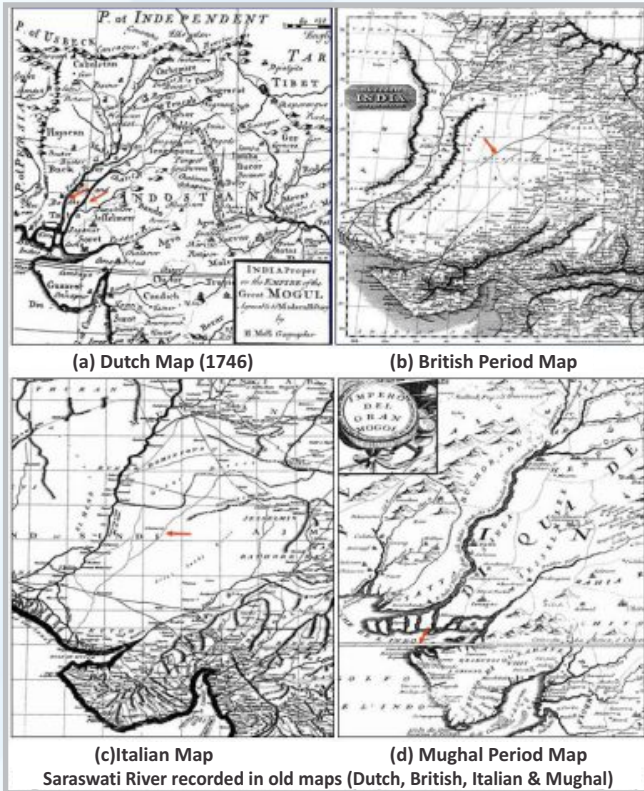


Shri Rajiv Ranjan Mishra DG, NMCG inspecting projects in state of Uttarakhand on 1<sup>st</sup> May, 2018.



The Saraswati is described as a river greater than the Indus and the Ganges, which flowed from the mountains to the oceans. The Saraswati has often been dismissed as a mere legend, or simply a figment of poetic imagination. However, in recent years, attempts have been made by geologists, historians, and archaeologists, to determine whether the great Saraswati did indeed exist.

According to the sacred Vedic texts, the Saraswati River was so powerful and majestic that it inspired the Rig Veda to be composed on its banks. It was even elevated to the level of a goddess. Saraswati is revered as the Hindu goddess of knowledge, music, arts, wisdom and nature. She is a part of the trinity of Saraswati, Lakshmi and Parvati. All the three forms help the trinity of Brahma, Vishnu and Shiva in the creation, maintenance and destruction of the Universe. In the Rig Veda,



Saraswati, a name meaning 'having many pools', is also the goddess of the river and she is nearly always depicted sitting on the banks of a flowing river. Saraswati is the most mentioned river in Vedas (80 times over that of River Ganga).

The name 'Saraswati' has been used in most of the ancient literatures like Vedas, Manusmriti, Mahabharata and Puranas. In Rigveda, Saraswati is described as:

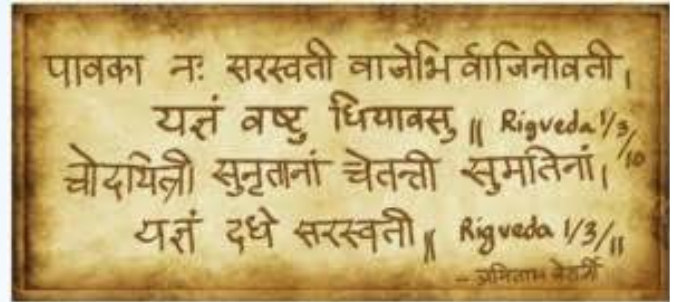
*Ambitame, naditame, devitame, Saraswati Aprasasta iva smasi prasastim Amba naskrit—(Rigveda—2. 41. 16)*

This means:

"Oh Mother Saraswati you are the greatest of mothers, greatest of rivers, greatest of goddesses. Even though we are not worthy, please grant us distinction"

According to the Mahabharata, the Saraswati dried up to a desert (at a place named Vinasana or Adarsana) and joins the sea 'impetuously'. The desert made when Saraswati dried up was the Thar Desert.

Since the 19<sup>th</sup> century, attempts have been made to identify the mythical Saraswati of the Vedas with physical rivers. Two theories are popular in the attempt to identify the Saraswati. Several scholars have identified the river with the present-day Ghaggar-Hakra river or dried up part of it, which is



located in North western India and Pakistan. A second popular theory associates the river with the Helmand River or an ancient river in the present Helmand Valley in Afghanistan. Others consider Saraswati a mythical river.

The first evidence of the ancient underground channels came in the 1930s, when scientist Haren and B C Gupta from the GSI spoke of the channels. They claimed that these channels might belong to river Saraswati. Bimal Ghose, former scientist at Central Arid Zone Research Institute (CAZRI), Jodhpur, also made a reading based on the topography map of Rajasthan. He confirmed that the ancient channels were a dead river that could well be Saraswati. It is to be mentioned here that the ancient literature and texts and the geographical history of the region were constant bases of reference in these studies.

In April, 2015 the Haryana Government sanctioned an initial amount of ₹50 crore for the project to revitalise the ancient Saraswati heritage and to underscore the antiquity of the world's oldest Saraswati river civilization, and its heritage to the world.



Shri Prashant Bhardwaj

This article about river Saraswati has been developed with inputs from Shri Prashant Bhardwaj, Deputy Chairman of Haryana Saraswati Heritage Development Board. Shri Bhardwaj has diverse educational qualification with Master in Computer Application (MCA), Advance Diploma in Computer Application (ADCA), Post Graduate Diploma in Computer Application (PGDCA), BSc, B.Ed., and Advance Diploma in German language (Gold Medalist). He is also associated with various organizations under different capacities. These include Member, Multi disciplinary Advisory Committee on Saraswati, Ministry of Culture Govt of India, Chairman, Tourism Committee on Saraswati Heritage Project, HSHDB Govt of Haryana, National Vice President Saraswati Nadi Shodh Sansthan, Founder member of the Saraswati Research and Education Centre Chennai and many more. Shri Bhardwaj has written 18 research papers on Saraswati Civilisation, Manuscripts, Ramayana, Hindu Dharma, and Technology published at National and International level and also working on Manuscripts studies since last eighteen years and collected more than 200 exclusive and rare manuscripts on Vedas, Mahabharata, Ramayana, Bahgwd Gita and Yantra-Tantra and synthesised, Identified and excavated them. He has compiled "धरातल पर फिर बहेगी सरस्वती की धारा" and is co-author of 'Mumbai Siege Enough is Enough'.

We thank Shri Prashant Bhardwaj for his valuable inputs on the article for our new series—Tributaries of river Ganga



राष्ट्रीय स्वच्छ गंगा मिशन विभिन्न माध्यमों के द्वारा गंगा सफाई पर चल रही परियोजनाओं को जन जन तक पहुँचाने के लिए प्रयासरत है और साथ साथ इस सफाई अभियान में जन भागीदारी की भी अपील कर रहा है। इसी कड़ी में दिनांक 27.03.2018 को महानिदेशक, राष्ट्रीय स्वच्छ गंगा मिशन, श्री राजीव रंजन मिश्रा ने दूरदर्शन के राष्ट्रीय चैनल पर अपने साक्षात्कार में 'नमामि गंगे' कार्यक्रम की जानकारी दी।



#### नमामि गंगे के बारे में-

हमारे देश में नदियों का बहुत महत्व है। हम उन्हें माता समझते हैं। नदियों का महत्व प्राकृतिक, सांस्कृतिक, आर्थिक एवं सामाजिक दृष्टि से भी बहुत महत्वपूर्ण है। 2014-15 में भारत सरकार ने एक बहुत बड़े कार्यक्रम 'नमामि गंगे' के नाम से शुरु किया जिसका मुख्य उद्देश्य गंगा नदी को समग्र रूप से स्वच्छ करना है जिससे गंगा की निर्मलता, अविरलता को सुनिश्चित किया जा सके। केवल गंगा नदी ही नहीं बल्कि इस कार्यक्रम के तहत गंगा की सहायक नदियों की सफाई का कार्य भी प्राथमिकता के आधार पर किया जा रहा है। इस कार्य को हम एकीकृत प्रोग्राम के तहत कर रहे हैं।

#### गंगा बेसिन कार्यप्रणाली-

इससे पहले भी नदियों की सफाई के लिए प्रयास किए गए लेकिन वे केवल कुछ शहरों तक ही सीमित रहे। हमारी कार्यप्रणाली गंगा को बेसिन मानकर उसकी सफाई में तबदील कर दी गई है। गंगा नदी पांच राज्यों से होकर गुजरती है, लेकिन कुल 11 राज्य गंगा नदी के बेसिन के अंतर्गत आते हैं। नमामि गंगे कार्यक्रम के तहत जो बड़े शहरों का म्यूनिसिपल सीवेज गंगा नदी में सीधे आकर गिर रहे हैं, इस सीवेज के लिए हम शोधन इकाइयाँ लगा रहे हैं। हम यह भी सुनिश्चित कर रहे हैं कि गंगा बेसिन में स्थित औद्योगिक इकाइयों का भी प्रदूषण खत्म किया जाए। पिछले कार्यक्रमों में हम गांवों पर अधिक ध्यान नहीं दे पाए थे। आज जो बड़े गांव हैं वे कल को छोटे शहर और फिर बड़े शहर बन सकते हैं। इसलिए गंगा के किनारे के गांवों से निकलने वाले अपशिष्ट नदी में न जाए इसके लिए भी प्रयास कर रहे हैं। इसके अलावा हम घाटों और मोक्षधाम के निर्माण एवं पुनरुद्धार के कार्य भी कर रहे हैं।

#### गंगा सफाई पर जन चेतना-

जैसा कि हम सब जानते हैं कि गंगा और इसकी सहायक नदियों के घाटों पर हजारों की संख्या में श्रद्धालु और पर्यटक आते हैं। इसलिए हम गंगा के किनारे रहने वाले लोगों को गंगा चौपाल और

नुकड़ नाटक के द्वारा उन्हें जागरूक करने का प्रयास कर रहे हैं जिससे की वह नदियों में और उनके घाटों पर कूड़ा-कचरा न डालें। जब घाट साफ रहते हैं तो जो लोग बाहर से घाटों पर आते हैं तो वे भी घाटों पर साफ-सफाई देखकर कूड़ा फेंकने से कतराते हैं।

#### जैव विविधता एवं पर्यावरण-

हम गंगा के किनारे पर वृक्ष लगवाने के लिए प्रयासरत हैं, जिससे गंगा नदी का पानी निर्मल हो सके और नदी की जैवविविधता सुनिश्चित की जा सके। जब नदियों में जीव-जंतु जीवित रहते हैं तो पानी के साफ होने का अंदाजा लगाया जा सकता है।

#### जनजागरण कार्यक्रम-

राष्ट्रीय स्वच्छ गंगा मिशन की ओर से इस बार गंगा स्वच्छता पखवाड़ा 16 मार्च से 31 मार्च तक मनाया गया। इसका शुभारंभ इलाहाबाद से हुआ और इसका समापन हरिद्वार में हुआ। इस अभियान में हमें कई तरह के काम किये, जैसे घाटों पर जाकर श्रमदान, नदियों के किनारे बसे लोगों को सफाई के प्रति जागरूक करना, सांस्कृतिक कार्यक्रम और गंगा चौपाल लगाकर सफाई में हो रही परेशानियों और उसके निपटान के बारे में विचार-विमर्श करना आदि। स्वच्छता पखवाड़ा के दौरान राष्ट्रीय स्वच्छ गंगा मिशन और मंत्रालय के लोगों ने यमुना के अलग-अलग घाटों पर जाकर सफाई की और वहाँ पर हमने देखा कि लोग घाट पर आकर पूजा करते हैं और पूजा सामग्री को नदी में डालकर चले जाते हैं। हम लोग श्रद्धालु से मिले और उन्हें सफाई के महत्व के बारे में बताया तो वह मान गये और दुबारा पूजा सामग्री को नदी में न डालने की बात कही। जिस तरह से लोग नदियों के घाटों पर जाकर पूजा-अर्चना करते हैं उसी तरह से लोगो को यह भी समझाना होगा कि नदियों की सफाई भी एक पूजा है। शायद तभी हम अपने मिशन को जल्द से जल्द सफल बना पाएंगे।

#### जल संरक्षण संदेश-

आज विश्व के कई देश पानी की किल्लत से जूझ रहे हैं। हमारे यहां भी वैसी स्थिति न बने इसलिए लोगों में पानी के संरक्षण को लेकर जागरूक करने की बहुत जरूरत है क्योंकि जिस तरह से पानी का दोहन फैक्ट्रियों, कल-कारखानों और खेतों में हो रहा है उससे नदियों, तालाबों और भू-जल में पानी की कमी हो रही है। खेती की सिंचाई के लिए हम माइक्रो इरीगेशन तकनीक का प्रयोग कर हम ज्यादा से ज्यादा फसल पैदा कर सकते हैं। हमें स्कूली शिक्षा के माध्यम से बच्चों को यह बताने की जरूरत है कि पानी को किस तरह से प्रयोग करना चाहिए जिससे कि पानी की बर्बादी न हो। बच्चों को ऐसा करते देखकर और लोग भी उनसे सीखेंगे और पानी की बचत कर सकेंगे।





# असर दिखाने लगी है 'नमामि गंगे' परियोजना

केंद्रीय दत्त • देहली

गंगा को स्वच्छ व निर्मल बनाने के लिए केंद्र की महत्वाकांक्षी 'नमामि गंगे' परियोजना का असर 'देवभूमि' उत्तराखंड में नजर आने लगा है। गोमुख से लेकर लक्ष्मण झूला (ऋषिकेश) तक गंगा के जल की 'ए-श्रेणी' की गुणवत्ता बरकरार है। उत्तराखंड प्रदूषण नियंत्रण बोर्ड (पीसीबी) की ताजा रिपोर्ट बताती है कि तीर्थोत्सव-पर्यटन के लिहाज से भारी जनदबाव के बावजूद लक्ष्मणझूला तक गंगा का पानी पीने योग्य है।

करीब 20 हजार करोड़ की लागत वाली इस परियोजना के तहत उत्तराखंड में लगभग 1100 करोड़ रुपये के कार्य होने हैं। इसमें खास फोकस सीवरेज ट्रीटमेंट पर है। बड़े पैमाने पर नाले टैंप किए गए हैं तो गंगोत्री से लक्ष्मण झूला तक कई जगह सीवरेज ट्रीटमेंट प्लांट तैयार हो चुके हैं। यही नहीं, राज्य के ग्रामीण इलाकों को भी अब खुले में शौच से मुक्त (ओडीएफ) घोषित किया जा चुका है। इन प्रयासों का ही

- उत्तराखंड पीसीबी की रिपोर्ट, हरिद्वार में यह नहाने लायक पानी की श्रेणी में
- 20 हजार करोड़ रुपये लागत है परियोजना की
- 1100 करोड़ रुपये हैं उत्तराखंड के लिए



## प्रधानमंत्री नरेंद्र मोदी का ड्रीम प्रोजेक्ट

'नमामि गंगे' प्रधानमंत्री नरेंद्र मोदी का ड्रीम प्रोजेक्ट है। प्रधानमंत्री बनने से पहले ही मोदी ने गंगा की सफाई को बहुत समर्थन दिया था। वादा किया था कि भाजपा यदि सत्ता में आई तो यह परियोजना जल्द शुरू की जाएगी। अपने वादे के अनुसार मोदी ने प्रधानमंत्री बनते ही कुछ महीनों में यह परियोजना शुरू कर दी थी।

तक कई जगह सीवरेज ट्रीटमेंट प्लांट तैयार हो चुके हैं। यही नहीं, राज्य के ग्रामीण इलाकों को भी अब खुले में शौच से मुक्त (ओडीएफ) घोषित किया जा चुका है। इन प्रयासों का ही

नतीजा है कि राज्य में लाखों की संख्या में तीर्थयात्रियों व सैलानियों की आमद के बावजूद गंगोत्री से लक्ष्मणझूला तक गंगा का पानी पीने योग्य बना हुआ है। पिछले यात्रा सीजन की ही बात करें तो

बदरीनाथ, केदारनाथ, गंगोत्री व यमुनोत्री के साथ ही हेमकुंड साहिब में दर्शनों को पहुंचे यात्रियों की संख्या 23.24 लाख थी। इसके अलावा कांवड़ यात्रा में लाखों श्रद्धालु उमड़ते हैं। सैलानियों की भी आमद भी बढ़ी है। इसके बावजूद गंगा का पानी स्वच्छ निर्मल रहना किसी बड़ी उपलब्धि से कम नहीं है।

पीसीबी की हालिया रिपोर्ट पर गौर करें तो गंगोत्री से लेकर हरिद्वार तक गंगा के पानी की 15 स्थानों पर मॉनीटरिंग की जाती है। इसमें बात सामने आई कि गंगोत्री से लक्ष्मणझूला तक गंगाजल की 'ए' श्रेणी बरकरार है। यानी वह पानी स्वच्छ और पीने योग्य है। हालांकि, ऋषिकेश से आगे हरिद्वार तक राज्य की सीमा में गंगा का पानी बी श्रेणी यानी सिर्फ नहाने लायक ही है।

## Ganga water cleaner than it was in 1986?

Rajesh Alreja and Muskhani Das Gupta

**NEW DELHI:** The Ganga may be cleaner today than it was in 1986, when efforts to first clean the river were launched, with the quality of its water showing an improvement on two out of three key parameters used for measurement, in some stretches across 10 important cities, according to data from the National Mission for Clean Ganga (NMCG) that has been seen by Hindustan Times.

The parameters where the water quality has shown improvement between 1986 and 2017 are dissolved oxygen (DO) and biological oxygen demand (BOD). The third parameter is faecal coliform level, which is crucial to assess if the water is fit for drinking and bathing; this data was not provided by NMCG, which comes under the Union water resources ministry and is spearheading the ₹20,000 crore Namami Gange programme to clean the river.

Interestingly, the Central Pollution Control Board (CPCB) — the country's pollution watchdog — measured the water quality



It was in 1986 that efforts to clean the Ganga were launched. The water quality has improved on two of three key parameters.

against all three parameters and provided the data to NMCG. Coliforms are a broad class of bacteria found in faeces of humans and animals and their presence may indicate the possible presence of harmful, disease-causing organisms.

A report of the Comptroller and Auditor General of India on rejuvenation of Ganga tabled in Parliament last year said that during 2016-17, the total coliform level in Ganga across all the cities of Uttar Pradesh, Bihar and West Bengal that it flowed through,

was six to 334 times higher than the prescribed levels.

For better water quality, the DO should be more than 5mg/l and BOD should be less than 5mg/l (as per CPCB fixed standards for outdoor bathing). Along with faecal coliform level, BOD and DO are essential to measure a river's biological health.

The CPCB data shows that DO level in ten cities spanning five states through which Ganga flows was more than 5 mg/l in 2017.

CONTINUED ON P.9

## देवभूमि में असर दिखाने लगी है नमामि गंगे

केंद्रीय दत्त • देहली

- प्रदूषण नियंत्रण बोर्ड की रिपोर्ट में स्वच्छता बढ़ा
- नमामि गंगे परियोजना के कार्यों की वजह से स्वच्छता बढ़ा
- अलाहाबाद, हरिद्वार में गंगा का पानी अब पीने लायक है
- देहली के नमामि गंगे परियोजना के तहत 1100 करोड़ रुपये के कार्य



स्थान	स्थिति संख्या
गंगोत्री	01
रूद्रनाथ	03
देवप्रयाग	03
लक्ष्मणझूला	01
हरिद्वार	07

बढ़ती नदी गंगा को स्वच्छ और निर्मल बनाने के लिए केंद्र की महत्वाकांक्षी 'नमामि गंगे' परियोजना का असर उत्तराखंड में नजर आने लगा है। उत्तराखंड प्रदूषण नियंत्रण बोर्ड (पीसीबी) की ताजा रिपोर्ट बताती है कि तीर्थोत्सव-पर्यटन के लिहाज से भारी जनदबाव के बावजूद लक्ष्मणझूला तक गंगा का पानी पीने योग्य बना हुआ है। अलाहाबाद, हरिद्वार में यह नहाने लायक पानी की श्रेणी में है। यही नहीं, राज्य के ग्रामीण इलाकों को भी अब खुले में शौच से मुक्त (ओडीएफ) घोषित किया जा चुका है। इन प्रयासों का ही

नतीजा है कि राज्य में लाखों की संख्या में तीर्थयात्रियों व सैलानियों की आमद के बावजूद गंगोत्री से लक्ष्मणझूला तक गंगा का पानी पीने योग्य बना हुआ है। पिछले यात्रा सीजन की ही बात करें तो

बदरीनाथ, केदारनाथ, गंगोत्री व यमुनोत्री के साथ ही हेमकुंड साहिब में दर्शनों को पहुंचे यात्रियों की संख्या 23.24 लाख थी। इसके अलावा कांवड़ यात्रा में लाखों श्रद्धालु उमड़ते हैं। सैलानियों की भी आमद भी बढ़ी है। इसके बावजूद गंगा का पानी स्वच्छ निर्मल रहना किसी बड़ी उपलब्धि से कम नहीं है।

पीसीबी की हालिया रिपोर्ट पर गौर करें तो गंगोत्री से लेकर हरिद्वार तक गंगा के पानी की 15 स्थानों पर मॉनीटरिंग की जाती है। इसमें बात सामने आई कि गंगोत्री से लक्ष्मणझूला तक गंगाजल की 'ए' श्रेणी बरकरार है। यानी वह पानी स्वच्छ और पीने योग्य है। हालांकि, ऋषिकेश से आगे हरिद्वार तक राज्य की सीमा में गंगा का पानी बी श्रेणी यानी सिर्फ नहाने लायक ही है। पीसीबी के नए मापदंडों के मुताबिक नमामि गंगे परियोजना के माध्यम से गंगा की पानी की गुणवत्ता में सुधार हुआ है।

## गंगा के प्रति जागरूक करेंगे 'गंगा प्रहरी'

नई दिल्ली, (आईएनएस) 'नमामि गंगे' के तहत जागरूकता और गंगा सफाई के लिए 'गंगा प्रहरी' की शुरुआत की जाएगी। यह योजना गंगा के तट पर रहने वाले लोगों को गंगा में नदी की सफाई के लिए जागरूक करेगी।

गंगा प्रहरी की शुरुआत की जाएगी। यह योजना गंगा के तट पर रहने वाले लोगों को गंगा में नदी की सफाई के लिए जागरूक करेगी।

गंगा प्रहरी की शुरुआत की जाएगी। यह योजना गंगा के तट पर रहने वाले लोगों को गंगा में नदी की सफाई के लिए जागरूक करेगी।

## Dutch PM hails Modi for Clean Ganga goals

New Delhi, May 24: Lauding the goals set by Prime Minister Narendra Modi for cleaning the Ganga, Dutch Premier Mark Rutte on Thursday said worldwide there was a need to value water, not only as an economic asset, but for its social, cultural and environmental importance.

The Namami Gange initiative, aimed at cleaning the 2525 km-long river, was undertaken and approved as its flagship programme in June 2014.

## GIS tech to aid in Ganga clean-up

Vishva Mohan Singh

New Delhi: In 15 months time, Survey of India, the country's principal mapping agency, will map the entire stretch of the Ganga using geographic information system (GIS) technology and provide high resolution maps to the government.

It will help river cleaning authorities in getting minute details of sewage and effluent discharge outlets and identify pollution hot spots up to 10 km on both sides of the river.

The high resolution map will help in keeping tabs on sources of pollution and taking quick corrective measures. Such scientific map is necessary for effective execution and monitoring of the river cleaning works," said Raj

## MONITORING & TESTING

- NEW PROJECTS UNDER GANGA REJUVENATION PROGRAMME
- Use of GIS technology for Ganga cleaning projects - ₹66.84 crore
- Mapping of entire sewage and other industrial and commercial discharge outlets
- Monitoring critical pollution hot-spots
- Strengthening state pollution control boards

Jay Ranjan Mishra, director general of the National Mission for Clean Ganga (NMCG), said that mapping the entire stretch of the river Ganga is quite a lengthy

task. The project will map sewage outlets and other discharges from all units (industrial, commercial and others) from the source to the public drainage network. It will help in monitoring of pollution sources and quicken the process of taking appropriate action.

The NMCG has approved ₹66.84 crore for this work in its five-year mission plan. It's part of the Mission's latest approval of other key projects worth over ₹500 crore for five main Ganga basin states - Uttar Pradesh, Bihar, Jharkhand and West Bengal.

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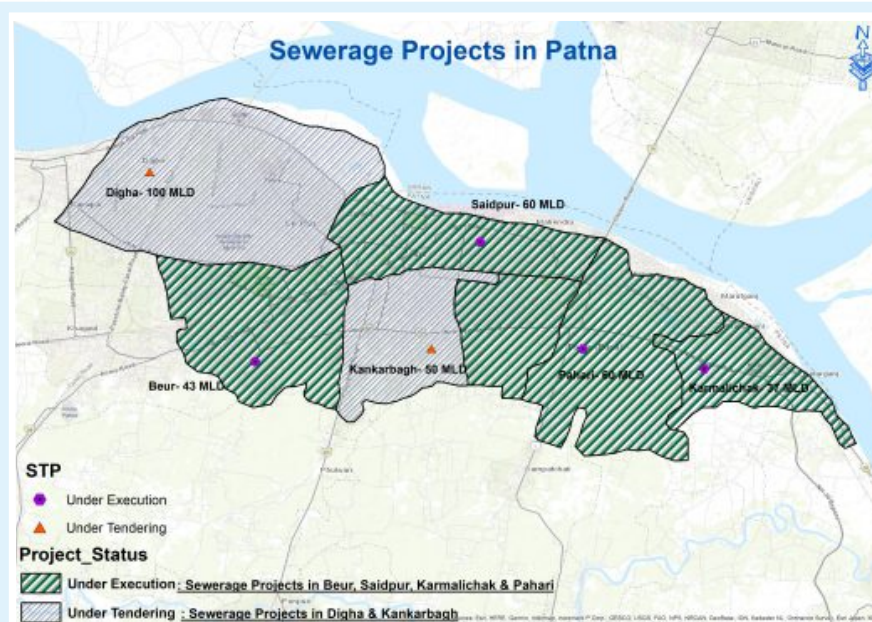


# माननीय प्रधानमंत्री का मोतिहारी दौरा

माननीय प्रधानमंत्री ने गत 10 अप्रैल, 2018 को मोतिहारी में नमामि गंगे कार्यक्रम के तहत पटना शहर की परियोजनाओं का शिलान्यास किया

माननीय प्रधानमंत्री द्वारा 10 अप्रैल, 2018 को पटना बिहार में निम्नलिखित 4 परियोजनाओं का शिलान्यास किया गया

परियोजना	लागत (करोड़ों में)	एस.टी.पी. क्षमता (मिलियन लीटर प्रतिदिन)	सीवर तंत्र (नेटवर्क) किलोमीटर
सैदपुर सीवरेज नेटवर्क	225.77	.....	172.5
पहाड़ी एस.टी.पी. (जोन III)	191.62	60	.....
पहाड़ी सीवरेज नेटवर्क (जोन IV ए (एस))	356.37	.....	87.69
पहाड़ी सीवरेज नेटवर्क (जोन V)	184.86	.....	115.93
कुल योग	959.02	60	376.12



क्रियान्वित की जा रही परियोजनाओं का लेखा-जोखा

पटना सीवरेज जोनस्	परियोजनाओं की संख्या	सीवर-तंत्र (नेटवर्क) किलोमीटर	एस.टी.पी. क्षमता (मिलियन लीटर प्रतिदिन)	परियोजना लागत (करोड़ों में)
बेउर (जोन II)	2	43	179.74	293.93
करमालीचक (जोन V)	2	37	96.54	354.46
सैदपुर (जोन III) जोन IV (एन)	2	60	227.61	453.56
पहाड़ी (जोन V) जोन IV ए (एस)	3	60	203.62	732.85
दीघा एस.टी.पी. तथा सीवरेज नेटवर्क (जोन I)	1	100	288.00	824.00
कंकड़ बाग एस.टी.पी. व सीवरेज नेटवर्क (जोन IV)	1	50	150.00	578.89
कुल योग	11	350	1,145.51	3,237.69

हाईब्रिड एन्युटी प्रणाली के माध्यम से दो परियोजनाओं का क्रियान्वयन

दीघा (जोन-I) तथा कंकड़बाग (जोन-IV) में, सार्वजनिक - निजी क्षेत्र भागीदारी के अन्तर्गत 'हाईब्रिड एन्युटी प्रणाली' के माध्यम से सीवेज ट्रीटमेंट प्लांट का निर्माण किया जा रहा है। दोनों परियोजनाओं के सम्बन्धित सीवेज नेटवर्क का निर्माण कार्य डी.बी.ओ.टी. (डिजाइन, निर्माण, परिचालन व हस्तान्तरण) पद्धति के अन्तर्गत किया जाएगा।

परियोजनाओं का व्यौरा:

दीघा (जोन-I)

- 100 एम.एल.डी. क्षमता का सीवेज ट्रीटमेंट प्लांट
- इण्टरस्पेशन तथा डाईवर्जन कार्य
- दीघा सीवरेज नेटवर्क-303कि.मी.

कंकड़बाग (जोन-IV)

- 50 एम.एल.डी. क्षमता का सीवेज ट्रीटमेंट प्लांट
- इण्टरस्पेशन तथा डाईवर्जन कार्य
- कंकड़बाग सीवरेज नेटवर्क-105कि.मी.

## माननीय प्रधानमंत्री के भाषण के कुछ अंश

'स्वच्छता से जुड़ा हमारा एक और आग्रह, जीवनदायिनी माँ गंगा को निर्मल बनाने में सरकार गंगोत्री से लेकर गंगा सागर तक गंगा को साफ और स्वच्छ करने के संकल्प के साथ कार्य कर रही है। बिहार इस मिशन का अहम हिस्सा है, घर या फ़ैक्ट्री के गंदे पानी को गंगा में जाने से रोकने के लिए बिहार में अब 3 हजार करोड़ से ज्यादा के 11 प्रोजेक्ट की मंजूरी दी जा चुकी है। इस राशि से 1100 किलोमीटर से लंबी सीवरेज लाइन बिछाने की योजना है। इसमें से 4 प्रोजेक्ट का शिलान्यास आज हुआ है। पिछले साल में जब मोकामा आया था, तब भी 4 सीवेज प्रोजेक्ट का शिलान्यास किया गया था उनपर भी काम तेज गति से चल रहा है। बहुत जल्द ही बाकी परियोजनाओं में काम शुरू कर दिया जाएगा। गंगा तट के किनारे बसे गाँव को प्राथमिकता के आधार पर खुले में शौच मुक्त



कराया जा रहा है। उत्तराखंड, उत्तर प्रदेश, बिहार, झारखंड और पश्चिम बंगाल इन पाँच राज्यों में गंगा जी होकर गुजरती है, वहाँ गंगा किनारे के कई गाँव इस मिशन में सफल हो चुके हैं। गंगा किनारे बसे गाँवों में कचरे के प्रबंधन की योजनाएं लागू की जा रही हैं, ताकि गाँव का कचरा भी नदी में ना बहाया जाए। मुझे उम्मीद है कि जल्द ही गंगा तट पूरी तरह खुले में शौच मुक्त हो जाएंगे। पिछले दिनों बनारस में कचरा महोत्सव मनाया गया। मैं गंगा तट के शहरों के नागरिकों से कहूंगा कि आप भी कचरा महोत्सव मनाइये। हर कचरे से कंचन कैसे बन सकता है, वेस्ट मे से वेल्थ कैसे बन सकती है इस पर लोगों को शिक्षित कीजिये और आप देखते रह जाएंगे कि कितना बड़ा काम कचरे से भी होता है।'



माननीय प्रधानमंत्री के कर कमलों द्वारा पटना के चार प्रोजेक्ट का शिलान्यास



माननीय प्रधानमंत्री की जनसभा में जनता का सैलाब



माननीय प्रधानमंत्री का स्वच्छतायुधियों से संवाद



माननीय प्रधानमंत्री मंच पर अन्य अतिथियों के साथ



# Ganga Praharis: Guardians of the Ganga

## A grassroots level movement for the conservation and cleanliness of Ganga river

To elicit the participation of local people in conservation of Ganga river biodiversity and cleanliness, the Wildlife Institute of India has created *Ganga Praharis*- a cadre of self-motivated and trained volunteers from the local community. Coming from different walks of life, this cadre is created to ensure the sustainability of efforts in conservation of the depleting biodiversity in the Ganga river. Till date, 427 Ganga Praharis across the five states (Uttarakhand, Uttar Pradesh, Bihar, Jharkhand and West Bengal) have been involved in the program. Trained in ecological monitoring of Ganga aqualife, plantation techniques, awareness creation and community mobilization activities, these individuals are tirelessly working with the NMCG-Wild Life Institute of India team. These Praharis were trained through a series of national, state and site level workshops in diverse skills such as, ecological surveys, rescue and rehabilitation of aquatic species, awareness meetings, social interactions and green livelihood skills. They are now capable of assisting any governmental and non governmental organization in site level activities related to the Ganga river at various levels and in different aspects. Ganga Praharis are ensuring protection and conservation of biodiversity of the river in their stretch and carrying out cleanliness of the ghats. They are

creating awareness and motivating other members of their community to adopt sustainable practices for resource extraction.

As an output to this initiative, a database of the Ganga Praharis across the five Ganga states has been created. This retrievable database has complete information of each and every Ganga Prahari. This includes personal information such as age, gender, educational qualification, occupation, skills and interests besides expedient details of their contact along the Ganga river. Details on the number of awareness meetings, training workshops conducted for Ganga Praharis and onsite activities conducted by the Praharis have also been listed. All the organizations associated with NMCG can access this information through NMCG and WII <http://wii.gov.in>. They can further train these individuals in the respective R&D activities and get necessary support at grass root level. In turn, Ganga Praharis will be linked to various institutes of national and international importance. By igniting a grassroots level movement for a clean and vibrant Ganga, these Praharis are ensuring Nirmal and Aviral Dhara of Ganga river.

For Further details, please visit @<https://nmcg.nic.in/wii/prgbggp.aspx>



Ganga Prahari conducting awareness program for school children on World wetlands day 2018, Devprayag



Ganga Praharis at Ramghat bridge, Narora



Ganga Praharis trained in alternative livelihood skills, Village Rampur, Varanasi



Plantation by Ganga Praharis during World Environment Day, Farrukabad



## राज्यों से रिपोर्ट | उत्तराखण्ड

राष्ट्रीय स्वच्छ गंगा मिशन एवं राज्य परियोजना प्रबन्धन ग्रुप के तत्वाधान में दिनांक 9 मई 2018 को माननीय मुख्यमंत्री उत्तराखण्ड, श्री त्रिवेन्द्र सिंह रावत एवं माननीय पेयजल मंत्री, श्री प्रकाश पंत के करकमलों से कॉफी टेबल बुक, गंगा को निर्मल एवं स्वच्छ बनाने के लिये गंगा थीम पर आधारित जिंगल, एवं राज्य परियोजना प्रबन्धन ग्रुप की विभागीय वेबसाइट: [www.spmguttarakhand.uk.gov.in](http://www.spmguttarakhand.uk.gov.in) को लॉन्च किया गया। साथ ही जल संरक्षण अभियान का भी उद्घाटन किया गया तथा लोगों में गंगा स्वच्छता एवं संरक्षण के प्रति जनमानस को जागरूक करने हेतु, माननीय मुख्यमंत्री एवं माननीय पेयजल मंत्री ने जल चेतना रथ को हरी झण्डी दिखाकर रवाना किया।

नमामि गंगे योजना के तहत गंगा को गंगोत्री से उत्तराखण्ड के अंतिम सीमा तक स्वच्छ रखने का लक्ष्य उत्तराखण्ड सरकार ने रखा है।

गंगा किनारे उत्तराखण्ड के जो 132 गांव आते हैं, उन्हें गंगा गांव की श्रेणी में रखा गया है। इस कार्यक्रम के अवसर पर सचिव पेयजल, श्री अरविंद सिंह हयांकी ने नमामि गंगे के अन्तर्गत चल रही योजनाओं की जानकारी और भविष्य की योजनाओं के बारे में बताया।

कार्यक्रम का संचालन कार्यक्रम निदेशक, राज्य परियोजना प्रबन्धन ग्रुप, नमामि गंगे, डॉ. राघव लंगर ने किया।

इस अवसर पर स्थानीय विधायक उमेश शर्मा काऊ, विधायक मुन्ना सिंह चौहान, विश्व बैंक से डॉ. स्मिता मिश्रा, पेयजल निगम के एमडी, श्री भजन सिंह, सीजीएम जल संस्थान, श्री एस.के. गुप्ता आदि मौजूद रहे।



माननीय मुख्यमंत्री एवं पेयजल मंत्री तथा अन्य अतिथि गण कॉफी टेबल बुक लॉन्च करते हुये।



माननीय मुख्यमंत्री एवं पेयजल मंत्री जल चेतना रथ को हरी झण्डी दिखाकर रवाना करते हुये।

राष्ट्रीय स्वच्छ गंगा मिशन एवं राज्य परियोजना प्रबन्धन ग्रुप के तत्वाधान में दिनांक 24.05.2018 गंगा दशहरे के अवसर पर एक दिवसीय कार्यशाला का आयोजन किया गया। जिला गंगा समिति द्वारा यह कार्यशाला देवप्रयाग, उत्तरकाशी, रुद्रप्रयाग एवं पौड़ी गढ़वाल में आयोजित हुई, जिसमें राष्ट्रीय नदी के लिये किये जा रहे गंगा संरक्षण कार्यों पर चर्चा और सुझाव रखे गये।

देवप्रयाग में गंगा दशहरा पर्व के अवसर पर आयोजित एक दिवसीय कार्यशाला के अवसर पर राष्ट्रीय स्वच्छ गंगा मिशन के कार्यकारी निदेशक (वित्त), श्री रोजी अग्रवाल ने नमामि गंगे कार्यक्रम के अन्तर्गत गतिमान कार्यों को जनता के सामने रखा और साथ ही आगे होने वाले कार्यों की जानकारी भी दी। उन्होंने इस महा अभियान में हर एक नागरिक से योगदान देने के लिए अपील की।



कार्यकारी निदेशक (वित्त), द्वारा नव निर्मित घाट का निरीक्षण



गंगा दशहरा के अवसर पर देवप्रयाग में हुए कार्यक्रम की झलकियाँ



## राज्यों से रिपोर्ट | उत्तराखण्ड

दिनांक 13.06.2018 को राष्ट्रीय स्वच्छ गंगा मिशन के तत्वाधान में राज्य परियोजना प्रबन्धन गुप नमामि गंगे उत्तराखण्ड द्वारा गंगा स्वच्छता एवं संरक्षण के लिए तीर्थ यात्रियों एवं आम जन-मानस में जागरूकता के उद्देश्य से चार धाम यात्रा मार्गों पर तीन गंगा रथों के संचालन का शुभारम्भ किया गया।

माननीय पेयजल एवं स्वच्छता मंत्री श्री प्रकाश पंत द्वारा तीनों गंगा रथों को हरी झण्डी दिखाकर रवाना किया। माननीय मंत्री द्वारा बताया गया कि गंगा नदी को स्वच्छ एवं निर्मल बनाये रखने के लिए आम जन-मानस का सहयोग अति आवश्यक है। इस उद्देश्य से आम जन-मानस व तीर्थ यात्रियों में गंगा स्वच्छता एवं संरक्षण की भावना जागृत करने लिए चार धाम यात्रा मार्गों, हरिद्वार से बद्रीनाथ, हरिद्वार से गंगोत्री व धरासू से यमुनोत्री मार्गों पर गंगा रथों का संचालन किया जा रहा है। इस अवसर पर गंगा

स्वच्छता व संरक्षण को लेकर सांस्कृतिक कार्यक्रम का आयोजन भी किया गया, जिसमें स्कूली बच्चों द्वारा गंगा स्वच्छता एवं संरक्षण का संदेश कार्यक्रम के माध्यम से दिया गया।

कार्यक्रम के दौरान दून विश्वविद्यालय के चित्रकला विभाग की प्रोफेसर डॉ धृति ढौंडियाल और छात्र-छात्राओं को नमामि गंगे कार्यक्रम के अन्तर्गत विभिन्न स्थानों में उत्कृष्ट चित्रकला करने के लिए पेयजल मंत्री द्वारा एक स्मृति चिन्ह भेंट कर सम्मानित भी किया गया।

कार्यक्रम के दौरान गंगा विचार मंच के प्रदेश संयोजक श्री लोकेन्द्र सिंह बिष्ट, मैत्रेय रुरल एवं इन्वायरमेन्ट की अध्यक्ष श्रीमती गीता डोबरियाल, ग्रामीण तकनीकी समिति के अध्यक्ष श्री सतीश काला व राज्य परियोजना प्रबन्धन गुप, नमामि गंगे के अधिकारी व कर्मचारी मौजूद थे।



माननीय मंत्री, पेयजल एवं स्वच्छता, दून यूनिवर्सिटी की प्रोफेसर धृति ढौंडियाल को स्मृति चिन्ह भेंट करते हुए।



सांस्कृतिक कार्यक्रमों का आयोजन।



माननीय मंत्री, पेयजल एवं स्वच्छता गंगा रथों को हरी झण्डी दिखाकर रवाना करते हुए।

राष्ट्रीय स्वच्छ गंगा मिशन एवं राज्य परियोजना प्रबन्धन गुप, उत्तराखण्ड के तत्वाधान में दिनांक 22.05.2018 को अंतरराष्ट्रीय जैव विविधता दिवस के अवसर पर गंगा स्वच्छता एवं संरक्षण के दृष्टिगत आम जन-मानस में जागरूकता हेतु गढ़वाल यूनिवर्सिटी के साथ मिलकर 06 स्थानों पर गंगा रन का आयोजन किया गया।

श्रीनगर गढ़वाल में छात्र-छात्राओं एवं आम लोगों ने स्वच्छ गंगा के संकल्प को लेकर 800 प्रतिभागियों ने रन फॉर क्लीन गंगा अभियान के तहत श्रीनगर के गोला पार्क से लेकर एनआइटी परिसर तक दौड़ लगाई। स्वच्छ गंगा को लेकर गढ़वाल केन्द्रीय विश्वविद्यालय के उमंग प्रकोष्ठ की ओर से नमामि गंगे को लेकर विश्वविद्यालय के छात्र-छात्राओं के साथ ही विभिन्न स्कूलों, मेडिकल कॉलेज, पॉलिटेक्निक, एनआइटी के छात्रों के साथ सशस्त्र सीमा बल के जवान भी शामिल हुए।



गढ़वाल यूनिवर्सिटी के अधिकारी तथा छात्र-छात्राएं गंगा शपथ लेते हुए।

रुद्रप्रयाग में विश्व जैव विविधता दिवस पर रन फॉर क्लीन गंगा अभियान के तहत 150 स्वयं सेवियों ने जिला मुख्यालय में जन जागरूकता रैली निकालकर लोगों को स्वच्छता के प्रति जागरूक किया। इस दौरान छात्रों ने अलकनंदा तथा मंदाकिनी संगम तट पर सफाई अभियान भी चलाया। रैली को जिला अधिकारी मंगलेश घिल्डियाल ने हरी झण्डी दिखाकर रवाना किया।

देवप्रयाग में अंतरराष्ट्रीय जैव विविधता दिवस पर रन फॉर क्लीन गंगा अभियान के तहत कार्यक्रम का आयोजन हुआ जिसमें संस्कृत संस्थान एवं रा.इ.का. देवप्रयाग, एन.एस.एस एवं स्वयं सेवियों तथा संस्कृत महाविद्यालय के छात्रों ने भागीदारी की और स्वच्छ गंगा का संदेश देते हुये स्वयं सेवियों ने गंगा संगम से भगवान राम की तपस्थली रामकुण्ड तक 03 किलो मीटर की दौड़ लगायी, साथ ही संगम स्थल के समीप सफाई अभियान भी चलाया।



गढ़वाल यूनिवर्सिटी के अधिकारी एवं छात्र-छात्राएं गंगा रन की तैयारी करते हुए।





## Ganga Haritima Abhiyan-Greening Ganga

The 'Ganga Haritima Abhiyan' is an initiative by Uttar Pradesh Government to plant 10 crore trees all along the banks of Ganga. The campaign was flagged off by the Honourable Chief Minister of Uttar Pradesh Shri Yogi Adityanath on 7<sup>th</sup> April, 2018 at Allahabad. The main objective of campaign is to improve and maintain the forest/ vegetation cover in the buffer zone along the course of river Ganga and its tributaries in the state of Uttar Pradesh.

The Campaign aims to achieve - Aviral Dhara (continuous flow), Nirmal Dhara (clean water) and ecological restoration of Ganga River, adopting community participatory approach. The buffer zone on either side of the river will be cleaned through proper solid waste management, water/soil conservation activities and developing proper beneficiary schemes.

A 'Top Committee' has been constituted, chaired by Hon'ble Chief Minister, UP, for continuous monitoring of the campaign. More than twenty seven departments of the UP state government are involved in this campaign. The campaign will ensure participation of corporate sector for the plantation activities with an aim to ensure people's participation through 'One Person One Tree' scheme.

The State Government has estimated ₹203.24 crores for the campaign mainly for publicity, awareness, plantation activities, meetings and workshops. During specific identified dates (festivals/religious occasions), all the concerned and participating departments will be responsible to organise the campaign at their end.

This programme provides a perfect synergy with the ongoing afforestation drive under the Namami Gange programme. Since 2016 NMCG has funded ₹18.65 crores for plantation in 831 ha. of land in the state of UP. Further for 2018-19, NMCG has allocated ₹21.86 crores for carrying out plantation in 4111.0 ha. of land in the Ganga river bank in U.P, which will be a part of the Haritima Abhiyan.



Hon'ble Chief Minister, U.P., Planting a sapling during Ganga Haritima Abhiyan

## Ganga Vatika

Development of Ganga Vatika is an important activity under afforestation programme along buffer zone of Ganga. These green hubs attract a numbers of visitors who get to interact with nature with a message to keep Ganga clean.



A view of Ganga Vatika developed at Rishikesh under Namami Gange



**N**ational Mission for Clean Ganga is making all out efforts to convert the clean Ganga mission into a peoples' movement by reaching out to and involving the masses, the stakeholders and various entities both resident and non-resident in this campaign of cleaning river Ganga. A special push is being given to engage the corporate sector – both public and private for enlisting their support for taking up various projects, interventions and activities in connection with cleaning, protection and management of river Ganga basin.

## Clean Ganga Fund:

The beginning of this engagement with the general public started in 2014 with the setting up of a Clean Ganga Fund on 24.09.2014 as a Trust to harness the enthusiasm and willingness of Indians living in the country and abroad for ensuring clean and healthy waters of the much revered river Ganga. Since then, the public and private corporate sector, Indians living in any part of the world have made significant contributions to Clean Ganga Fund. NMCG is making further efforts to reach out to maximum number of people and entities for seeking donations in to the Fund.

## Corporate Social Responsibility

The public and private sector Corporate world has an important role to play specially when it comes to taking up activities of social, environmental and ecological impact. There have been a number of examples where the corporate sector has come forward to take up various socially relevant projects under the Corporate Social Responsibility mandate either on 'swachhta', educational front and also for ensuring environmental sustainability. Projects for rejuvenation and cleaning of river Ganga have also been defined as an activity under Corporate Social Responsibility Policy as detailed in Schedule VII of the Companies Act 2013 which otherwise includes activities relating to environmental sustainability, ecological balance, protection of flora and fauna, animal welfare, agro forestry, conservation of natural resources and maintaining quality of soil, air and water.

## Corporate Engagement

The Clean Ganga mission offers a unique opportunity for corporate sector to participate in the nation's largest environmental effort – rejuvenation of river Ganga. Corporates can either make monetary contributions to Clean Ganga Fund or can undertake certain activities like adopting ghats, piloting new technologies, collecting & disposing floating debris/solid waste etc., (For details see box). In this effort, NMCG plays the role of facilitator for providing necessary support and coordination required for execution of these projects and activities through the local urban bodies and State Government machinery.

The engagement with the Corporate sector has yielded very positive results as not only note worthy amounts have been donated by both public and private sector to the Clean Ganga Fund but also a number of corporates specially private sector have come forward and shown their intent for taking up various river Ganga cleaning and rejuvenation projects along the banks of Ganga in various parts of the country. NMCG is currently engaged with a number of private sector corporate entities – special mention in this regard is made of entities like Yes Bank, Indo-Rama Group, IndusInd Bank, Bajaj Electricals, Tata Sons and others. These projects are likely to roll out in the coming months and will be a shining example of Public Private Partnership in this unique effort.

## Broad Activities under CSR Mandate (For river Ganga rejuvenation).

- Ghat cleaning initiatives at important Ghats in major towns.
  - Ghat development / Ghat adoption.
  - Crematoria development at major religious locations.
  - Tree plantation.
  - River surface cleaning using trash skimmers.
  - IEC activities for promoting Clean Ganga mission.
  - Rural sanitation and Ganga Gram adoption.
  - In-situ bioremediation for Drains.
  - Green composting at important / religious Ghats.
  - Solid waste management around Ghats.
- 
- A unique online donation gateway for contributing towards river Ganga cleaning and rejuvenation programmes.
  - Established as a Trust on 24th September 2014 as approved by the Government of India.
  - Contributions to this fund by domestic donors are 100% Income-Tax exempt under Section 80 G (1) (I) of Income-Tax Act 1961.
  - To act as catalytic in nature for funding specific projects including R&D projects for river Ganga cleaning.
  - The fund is administered by CEO and DG NMCG under the overall supervision of Board of Trustees headed by Union Finance Minister.
  - Contributions to Clean Ganga Fund can be made through:-
    - Cheque / DD drawn in favor of "Clean Ganga Fund"
    - Donations can also be made directly through electronic mode to account no. 34213740838 with the New Delhi Main Branch of State Bank of India. (SWIFT Code: SBININBB104),
    - A payment gateway at the url: [www.cleangangafund.com](http://www.cleangangafund.com).
    - Through BHIM/UPI Mobile application. (QR code available at [www.nmcg.nic.in/donation\\_form.aspx](http://www.nmcg.nic.in/donation_form.aspx))

NMCG requests all corporate entities to join hands in this comprehensive river Ganga rejuvenation mission. Enquiries and further information can be sought at [www.nmcg.nic.in/csr/csrindex.aspx](http://www.nmcg.nic.in/csr/csrindex.aspx) or at the following mail addresses: [admnmcmg@nic.in](mailto:admnmcmg@nic.in), [rozy.agarwal@nic.in](mailto:rozy.agarwal@nic.in), [csractivity@nmcg.nic.in](mailto:csractivity@nmcg.nic.in)

CSR Activities

Donate to Clean Ganga Fund

Enquiries

'Even while living away from home Come join this people's movement'.





# Mission Ganga-Setting Milestones

## India's first ever One City One operator project in waste water treatment and reuse of waste water

Continuing to set milestones in waste water management, National Mission of Clean Ganga (NMCG), has sanctioned first ever One City One Operator project in Mathura for rehabilitation of existing sewage treatment infrastructure and creation of new sewerage treatment plant under Hybrid Annuity based PPP model by One operator for

singular accountability and long term efficient operation of plants. In another first of its kind initiative, NMCG has successfully partnered with Indian Oil Company limited (IOCL) for reuse of treated waste water by Indian Oil refinery situated at Mathura.

In a glittering function held on 13<sup>th</sup> June 2018 at

Convention centre, The Ashok, New Delhi presided over by Honourable Minister of WR RD & GR Shri. Nitin Gadkari in the presence of Honourable Minister of Petroleum and Natural Gas Shri Dharmendra Pradhan, a historic tripartite concession agreement was signed between Shri Hitesh Makwana, Executive Director (Projects) NMCG, Shri L.W. Kongwir, Executive Director, Mathura Refinery and Shri Rajesh Mittal Managing Director, UP Jal Nigam facilitating reuse of 20 MLD treated sewage water to be supplied to Mathura Oil refinery. This was preceded by a tripartite concession agreement signed between Shri Hitesh Makwana, Executive Director (Projects) NMCG, Shri Rajesh Mittal Managing Director, UP Jal Nigam and Shri B. K. Agarwal, President & CEO

Triveni Engineering and Industries Limited for development of a new 30 MLD STP, rehabilitation of existing STP, laying of pipeline and operation and maintenance for 15 years by a single operator for Mathura project (details in the box).

The function was attended by Dr. Satpal Singh & Shri Arjun Ram Meghwal Hon'ble Ministers of State for WR RD & GR, Shri U.P. Singh, Secretary, Water Resources, dignitaries from various walks and academic institutions, officers from Central and state government authorities, representatives from various banking institutions and from investors' fraternity.



Shri Rajiv Ranjan Mishra, DG, NMCG, welcoming the guests

## Project Details

- Development of a 30 MLD capacity Sewage Treatment Plant at Masani Mathura.
- Rehabilitation of existing 6.8 MLD STP at Masani, and two 14.5 & 16 MLD existing STPs at Trans Yamuna.
- Development of a 20 MLD tertiary treatment plant for supply of treated sewage water to IOCL refinery.
- Rehabilitation of pumping stations and associated infrastructure.
- Creation of 20 Interception and diversion works and pipeline works of 17 km.
- Operation and maintenance of the facilities for 15 year period.
- Total project cost ₹437.95 crores.
- Cost of development of Tertiary Treatment Plant(TTP) is ₹162.37 crores.
- Capital cost of TTP to be borne by NMCG and IOCL to bear O & M cost.
- Concessionaire for the entire project – M/s Triveni Engineering & Industries Limited.



Hon'ble Minister WR, RD & GR, Shri Nitin Gadkari speaking on Ganga rejuvenation projects at the function



Hon'ble Minister of Petroleum & Natural Gas Shri Dharmendra Pradhan assured full assistance to Namai Gange program



Signing of Tripartite agreement for One city One operator project at Mathura





# Mission Ganga-Setting Milestones

## Partnering with Yes Bank for public outreach campaign

As the folklore goes, Ganga was brought to the earth by King Bhagirath after years of 'tapasya'. Today such is the state and health of river Ganga that another Bhagirathi effort is required to be undertaken by one and all to restore the pristine glory of Ganga and its health. The campaign to clean and rejuvenate river Ganga and its tributaries seeks involvement of everyone at all levels to make it a people's movement subsuming the efforts undertaken by the Government and engaging various entities and groups for spreading awareness on the need to keep Ganga clean and healthy for all times to come.

In another path breaking initiative, NMCG is partnering with banking institutions to utilize their network in every nook and corner of the country to convey clean Ganga message and to exhort the countrymen to say Yes to clean Ganga and No to pollute Ganga and its tributaries. In a first of this series of partnership, NMCG has brought Yes Bank on board to utilize their network of ATMs and Bank branches for displaying clean Ganga message to engage the countrymen in this mission of national importance.

In a well-attended function held on 13<sup>th</sup> June, 2018 at Convention centre, The Ashok, New Delhi, the Hon'ble Minister of WR RD & GR Shri Nitin Gadkari in the presence of Hon'ble Minister of Petroleum and Natural Gas Shri Dharmendra Pradhan and along with Shri Bhupesh Rathore President and head, Strategic Govt. Advisory. Yes Bank unveiled a charter pledging Yes Bank support to Namami Gange program for clean Ganga mission and to comprehensively work with NMCG on abating pollution, conserving and rejuvenating river Ganga. The Honourable Minister of WR RD & GR Shri Nitin Gadkari also released a clean Ganga message which was flashed across all 1724 Yes Bank ATMs. 40 Yes Bank branches have also been adorned with arch gates welcoming the visitors with clean Ganga message.



Release of Clean Ganga Mission in Yes Bank ATMs



Unveiling of Yes Bank Charter

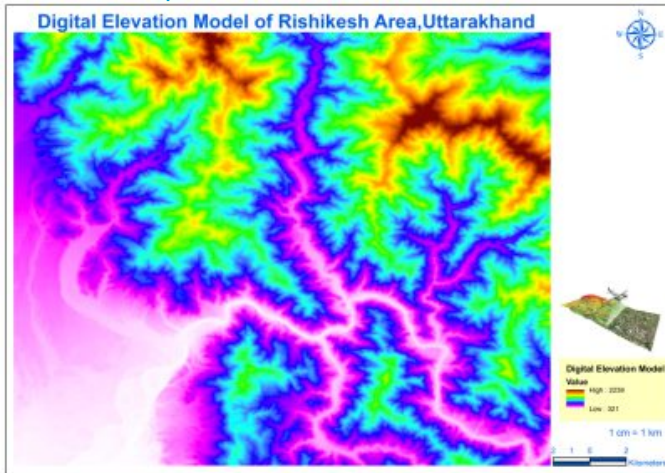


Arch gate at Yes Bank with Clean Ganga Message



*Have you said Yes to clean Ganga  
Come Join the Mission to rejuvenate  
Ganga Say NO to polluting Ganga  
& YES to save Ganga*





### About LiDAR

LiDAR is an acronym for Light Detection and Ranging. It is also referred to as laser altimetry. LiDAR is a relatively new technological tool that can be used to accurately geo-reference terrain features. This technology has some advantages such as higher accuracy, fast acquisition, fast processing, minimum human dependence, weather/light independence, canopy penetration, higher data density, GCP independence and cost effectiveness. As per current advanced technology elevation differences in flood plain are small and hilly areas is rugged topography. So LiDAR data are typically useful in River Ganga basin mapping and monitoring study. It is conservatively estimated that the accuracy of LiDAR, as determined from error propagation, is about 15 centimeters in elevation and horizontal position. This can be thought of as typical results from LiDAR surveys. This does assume that the system is properly calibrated and functioning correctly and that the surface terrain conditions are ideal.

### NMCG partnering with Survey of India

Survey of India, The National Survey and Mapping Organization of the country under the Department of Science & Technology, is the oldest scientific department of the Govt. of India. It was set up in 1767 and has evolved rich traditions over the years. In its assigned role as the nation's Principal Mapping Agency, Survey of India bears a special responsibility to ensure that the country's domain is explored and mapped suitably, provide base maps for expeditious and integrated development. National Mission for Clean Ganga and Survey of India have joined hands to facilitate the Ganga rejuvenation task by using LiDAR & Geographic Information System (GIS) technology, for mapping of Ganga basin at an estimated cost of ₹86.84 crore.

The Project would facilitate major support to Ganga River basin Management by bringing GIS

support in decision-making and embedding GIS in different aspects of planning and implementation at national/state/ local levels. It will also enable a sound process of monitoring development work as well as real time identification of critical hotspots. Project area extends up to 10 km on both sides of the banks of the river. One of the major task of the project is to integrate GIS ready database with Administrative Boundaries up to village level and make available Public Drainage Network datasets under project limits.

### Silent Features of the project with Survey of India

- Project Outcomes: GIS ready datasets including high resolution DEM would facilitate major support to Ganga River Basin Management by embedding GIS in different aspects of planning and implementation at national/state/local levels; bringing GIS support in decision-making; enable a sound process of monitoring development and identifying critical hotspots. To make GIS data available at all levels and groups associated in this process that helps bringing accountability and responsibility in policy decisions.
- Project Cost: ₹86.84 Cr./-
- DPR appraised by Prof. Saumitra Mukharjee, Professor of Geology Remote sensing and Space Sciences, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi

### Deliverables:

- DEM (vertical accuracy better than 50 cm), contour of 1.0 m for the project area of Ganga basin
- Ortho photos (25 cm GSD or better) for the project area of Ganga basin
- GIS ready dataset including for the project area of Ganga basin
- Outlet/vent of sewerage and other discharges from all dwelling units, industrial, commercial and all types of other institutions will be mapped from the source outlet to the public drainage network
- The entire public drainage network in the project area will be integrated with the present project mapping
- Final data will also be hosted on Survey of India secure portal and will be made accessible as service through simple customized applications for NMCG
- Capacity Building: Training of staff and officer's of NMCG

### LiDAR Applications

DEM

Environmental Assessment

Flood Model

Mapping

Micro Topography

Viewshed Analysis

Modelling of Pollution

River Survey

Sewer &amp; Manhole Survey

Watershed &amp; Stream Delineation

Urban Municipality



## FORT SERIES

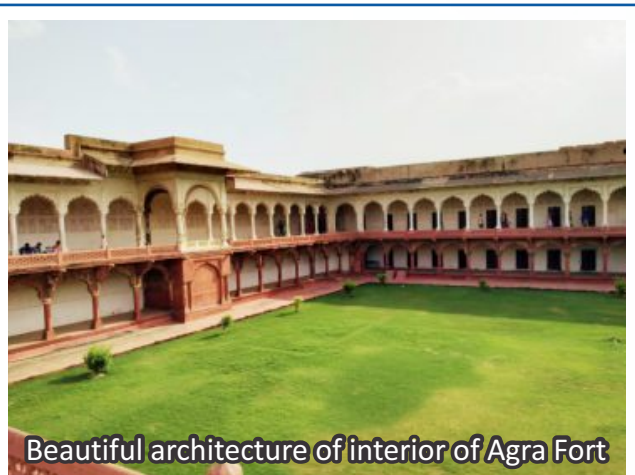
## Agra Fort

**A**gra Fort, situated in Agra of Uttar Pradesh, India is one of the iconic and strongly built edifices of the Mughal rulers, with opulent adorned buildings incorporating the daunting Mughal style of art and construction. The fort is popular among tourists as Red Fort, Fort Rouge and Laal Quila of Agra. It is positioned on the rightward bank of the Yamuna River and was built by the third Mughal king Akbar on the leftovers of a pre historic place well known as Badalgarh. The fort has been owned by many emperors and rulers in the past, undergoing many changes in its appearance. It all began in the year 1526 when the first battle of Panipat was fought between Babur and Ibrahim Lodi of the Lodi dynasty. When Babur defeated Ibrahim Lodi, he made the fort and the palace of Ibrahim Lodi as his home. He then modified the fort by building



Sheesh Mahal

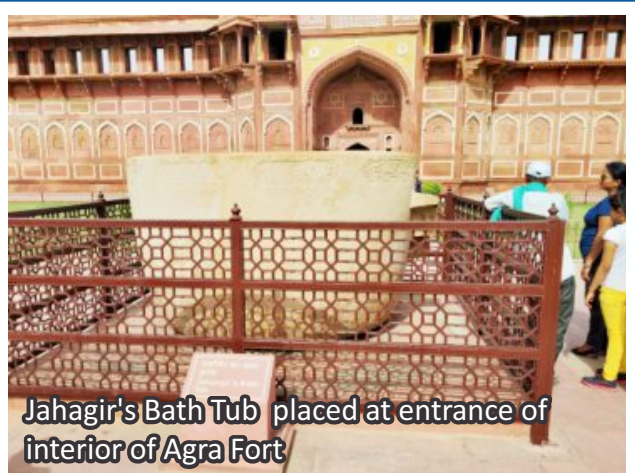
through with the consolidation of his power after accession to tower in 1654, worked both as a military strategic point as well as the royal residence. Ever since Babur defeated and killed Ibrahim Lodi at Panipat in 1526, Agra played an important center of Mughal Empire. It was Akbar who decided to make it his capital and arrived in Agra in 1558 and rebuilt it with red sandstone. Architects laid the foundation and it was built with bricks in the inner core with sandstone on external surfaces. Some 1,444,000 builders worked on it for eight years, completing it in 1573. Towards the end of Mughal Lineage, Aurangzeb imprisoned Shah Jahan in the fort, a punishment that might not seem so harsh, considering the luxury of the fort. It is rumored that Shah Jahan died in Muasamman Burj, a tower with a marble balcony with an excellent view of the Taj Mahal. The fort contains splendid palaces both in red sandstone and white marble built by two generations of prolific builders, Akbar and later Jehangir and Shahjahan. Of the nearly 500 Akbari buildings built in the Bengal and Gujarati traditions, only a few have survived, arrayed in a band on the riverfront.



Beautiful architecture of interior of Agra Fort

a huge step well (baoli) inside. The fort soon became an important monument to the Mughals. In fact, Babur's successor, Humayun's coronation took place at the fort in the year 1530.

Agra Fort built by Akbar in Red Sandstone when he was



Jahagir's Bath Tub placed at entrance of interior of Agra Fort



Angoori Bagh



## Agra Fort



Khas Mahal

Agra Fort a UNESCO World Heritage site located is about 2.5 km northwest of its much more famous sister monument, the Taj Mahal. The fort can be more accurately described as a walled palatial city.

Agra Fort expands more or less 2.5 km. It comprises of a wall made of red stone and quite a lot of structures inside. There



Diwan-e-Khas

are two gates in the wall, the Amar Singh Gate and the Delhi Gate. A tourist can enter the fort by way of the Amar Singh Gate. After entering through the gateway, one has to walk over a gradient and move in the Great Courtyard. There is the sundry pillared Deewan-e-aam (Great hall of Public Audience). This hall was erected by Shah Jahan in the year 1628. Moving forward, tourist will come across the Regal Pavilions that contain amazing mosques namely Mina Masjid and Nagina Masjid. There are also many palaces namely Shah Jahani Mahal, Macchi Bhavan, Sheesh Mahal and Khas Mahal located



Beautiful carvings of Khas Mahal



Beautiful architecture of Agra Fort

inside the fort, along with a beautiful Zenana Meena Bazaar. There are also numerous constructions made of unadulterated sandstone with eye-grabbing carvings. The wonderful piece of smart architecture is clearly displayed on the walls that are hollow and are full of continuously running water, in order to cool off the rooms of the fort. One of the most striking facts that make Agra Fort a must-visit destination is the arresting view of Taj Mahal and the gleaming Yamuna river from the balcony of this fort. In 1983, UNESCO added this monument in the list of the World Heritage Sites.

**Some of the exquisite structures that deserve a mention are:**

1. **Sheesh Mahal** - Literally meaning 'Glass Palace' it was the royal dressing room adorned by tiny mirror-like glass-mosaic decorations on the walls.
2. **The Diwan-e-aam** - Which was used as a communications ground between the public and the aristocracy and once housed the Peacock Throne.
3. **Diwan-e-Khas** - A hall of private audience, it was used to welcome kings and dignitaries.
4. **The Anguri Bagh** - It houses 85 square, geometrically arranged lush gardens.
5. **Khas Mahal** - An immaculate white marble palace.
6. **Mina Masjid** - Literally meaning 'Heavenly Mosque' it is a tiny mosque closed to the public.
7. **Nagina Masjid** - Literally meaning 'Gem Mosque', it was designed exclusively for the ladies of the court.
8. **Musamman Burj** - A large, octagonal tower with a balcony facing the Taj Mahal.



Diwan-e-aam



**Dr. Anthony R. Acciavatti**

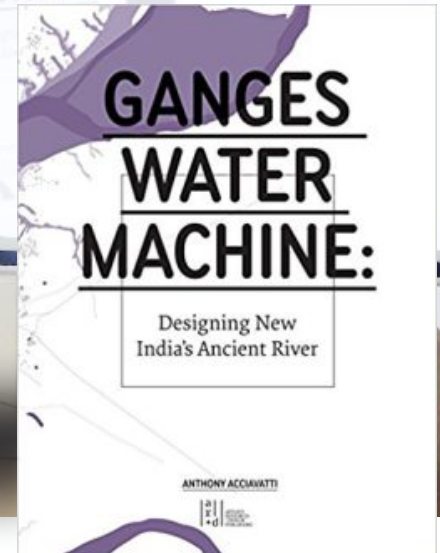
# Heros of Ganga

**D**r. Anthony R. Acciavatti, Adjunct Professor, Columbia University in the City of New York is a historian, cartographer, and architect. He is a principal of Somatic Collaborative and a founding editor of Manifest: A Journal of American Architecture and Urbanism. His work has been published in the New York Times, Cabinet, Architectural Design, and Topos among other places. Dr. Acciavatti is the author of *Ganges Water Machine: Designing New India's Ancient River* (awarded the 2016 John Brinckerhoff Jackson Book Prize), the first comprehensive mapping and history of India's Ganga river basin in half a century. He has spent the last decade hiking, driving, and boating across the Ganga in order to map it and to understand the growing conflicts over water for drinking, agriculture, and industry. Combining fieldwork with archival research, the book is an atlas of the enterprise to transform the Ganga. Along with the book, *Ganga Water Machine* is an internationally travelling exhibition. His research has been supported by grants and fellowships from the National Science Foundation USA along with the Graham Foundation and Princeton University, and his work on the Ganga has also been supported by a J. William Fulbright Fellowship as well as grants and fellowships from the Ford Foundation and Harvard University.

Dr. Anthony Acciavatti immersed himself in travel. He traversed and experienced as much of this landscape from Gaumukh (Uttarakhand) to Patna (Bihar), as he could. He

travelled on foot, by car, in boats (and even slept in them sometimes), visited sarais, towns, villages, historic sites, and agricultural landscapes. He spoke with and interviewed villagers, city dwellers, farmers, industrialists, academics, activists, government officials, and the Minister of environment and forests in the Central Government of India. In sum, he engaged with range of constituencies that are intrinsic to the formation, the occupation, and the future of this landscape. It is this deep excavation that informed his insightful understanding of the territory of the Ganga. Limited by the fact that there has not been a systematic mapping of this terrain since the 1950's, Acciavatti developed tactics to capture the fluidity of the river he experienced: he created maps that worked on a temporal scale, allowing information to intersect itself and be visually layered. He worked through methods of mapping that showed correlations among otherwise disparate pieces of information. These techniques of super imposition and mapping based on time rhythms allowed Acciavatti to truly create a hybrid between almanac and atlas.

NMCG while acknowledging the efforts and studies carried out by this unknown Hero of Ganga who dedicated 10 years of his life researching about river Ganga, invited him to deliver an expert lecture on 4th May 2018 to enhance the knowledge base of the NMCG employees and other related stakeholders.





# NAMAMI GANGE

## Photo Contest

(Ganga Through Lens)

### Ganga - A photo story

As they say, every photo narrates a story, a story of its surroundings, of the people around, the flora and fauna and the activities. Ganga has many a story to tell. From its origin in the mountains to its journey in the great Indian plains to its union with the Bay of Bengal, Ganga provides myriad views of life and people living on and by its banks. The early morning Sun sneaking out from the banks, the birds serenading the waters, devotees thronging the ghats and paying obeisance to the deity, people hoarded across platforms and performing their daily chores alongside Ganga, a dolphin or a turtle emerging out of the folds of the river and many such views enthrall one and all who happen to be with Ganga.

NMCG in its drive to involve and engage the public at large has been conducting painting and photo contests on its social media platforms. A photo contest was conducted by the NMCG from 16<sup>th</sup> to 31<sup>st</sup> March 2018 on social media with 'River Ganga' as the theme. The objective of the photo contest was to emphasize public participation in clean Ganga campaign and to arouse awareness amongst the viral public about 'Namami Gange' programs and interventions.

The contest as an overwhelming success as more than 2000 entries were received on Facebook, Twitter and Instagram from people of all ages and various walks of life during the 16 days period. It was heartening to note that entries were received from every nook and corner of the country which only reaffirms the reverence of the people for Ganga. Most of the photos have been clicked by amateur photographers who pursue this as their hobby. The proud winners were handed over their prizes by the Honourable Minister of WR RD & GR Shri Nitin Gadkari in a function held in Delhi on 13<sup>th</sup> June 2018.

"Your ancient home, your auspicious friendship,  
O Heros, your wealth is on the banks of the Ganga  
-Rig Veda 3.58.6

1st Prize



Dhananjay Bhuvarya (Varanasi)

1st Prize



Raj Ghosh (Howrah)

2nd Prize



Pranab Basak (Kolkata)

2nd Prize



Soumya Shankar Ghosal (Kolkata)

3rd Prize



Subhas Dutta (Kolkata)

3rd Prize



Narendra Kumar Pandey (Allahabad)

5th Prize



Sourav Pal (Kolkata)

5th Prize



Pragyan Shukla (Allahabad)

4th Prize



Sayed Wasi Haider (Varanasi)

4th Prize



Harsh Tiwari (Noida)

Consolation Prize



Susomoy Sur (Kolkata)

Consolation Prize



Ved Prakash Thawait (Haridwar)

Consolation Prize



Dhrubajyoti Bhattacharjee (Kolkata)

Consolation Prize



Dhananjay Bhuvarya (Varanasi)

Consolation Prize



Soumya Shankar Ghosal (Kolkata)

During the campaign, the entries varied from a wide variety around the theme like tourist attractions, festivals, livelihood, biodiversity and historical architectures along Ganga.



## World Bank

With 189 member countries, staff from more than 170 countries, and offices in over 130 locations, the World Bank Group is a unique partnership. The World Bank group works in every major area of development. It provides an array of financial products and technical assistance and helps countries share and apply innovative knowledge and solutions to the challenge they face. World Bank Group consists of five organizations (i) The International Bank for Reconstruction and Development (IBRD); (ii) The International Development Association (IDA); (iii) The International Finance Corporation; (iv) The Multilateral Investment Guarantee Agency; (v) The International Centre for Settlement of Investment Disputes.

Founded in 1944, The International Bank for Reconstruction and Development (IBRD), commonly referred to as the World Bank, is an international financial institution whose purposes include assisting the development of its member nation's territories, promoting and supplementing private foreign investment and promoting long-range balance growth in international trade.

The organization of the bank consists of the Board of Governors, the Board of Executive Directors and the Advisory Committee, the Loan Committee and the President and other staff members. All the powers of the bank are vested in the Board of Governors which the supreme policy making body of the bank. The initial authorized capital of the World Bank was \$ 10,000 million, which was divided in 1 lakh shares of \$ 1 lakh each. The authorized capital of the Bank has been increased from time to time with the approval of member countries.

**World Bank engagement in Ganga Rejuvenation Mission**

Building on lessons from the past, the Government of India (GoI) has developed a new and more comprehensive vision for Clean-up and conservation of the Ganga, led by establishment of the National Ganga River Basin Authority (NGBRA) in 2009 and later converging into Namami Gange programme-an integrated river Ganga conservation mission. GoI had requested the World Bank to provide upstream support to the NGBRA for institutional development, program design and priority infrastructure investments. Accordingly, World Bank agreed to provide financial support to the tune of US\$ 1,000 million (at among exchange rate ₹6,900 crore). The financing is a Specific Investment Loan (SIL), blending US\$ 180 million of IDA and US\$ 820 million of IBRD

resources. Period of Hon'ble the World Bank Loan is scheduled to expire on 31 December 2019. Cumulative withdrawal made from the loan till the quarter ended 31 June 2018 was \$180.06 million. Namami Gange project is now ranking amongst the five top programmes of the World Bank during the financial year 2018-19.



## Say NO to Plastics and YES to clean Ganga

**NATIONAL MISSION FOR CLEAN GANGA**

(Ministry of Water Resources, River Development & Ganga Rejuvenation)

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