"Flowing Towards a Plastic-Free Future"

Cleanliness drives to make Rivers Plastic Free



PLANNING AND MANAGEMENT FOR AQUATIC SPECIES CONSERVATION AND MAINTENANCE OF ECOSYSTEM SERVICES IN THE GANGA RIVER BASIN FOR A CLEAN GANGA

Report

Flowing Towards a Plastic-Free Future: Cleanliness drives to make Rivers Plastic Free

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INTRODUCTION

Ganga River often referred to as the lifeline of India, holds immense cultural, religious, and economic significance for millions. Flowing more then 2,500 Kms from the Himalaya to the Bay of Bengal, the Ganga and its tributaries sustain an array ecosystems and serve as a crucial water source for agricultural, industrial, and domestic needs. However, this revered river is under severe threat from plastic pollution, a burgeoning environmental crisis with far-reaching implications. Plastic waste, encompassing everything from single-use plastic bags and bottles to microplastics, has infiltrated the Ganga's waters, severely compromising its health and well-being. The problem is exacerbated by rapid urbanization, inadequate waste management infrastructure, and the widespread use of plastic in religious, cultural and day to day activities. Consequently, significant amounts of plastic debris are carelessly discarded into the river, where they get accumulated. This situation is even grave in the aquatic life, with species accidentally ingesting plastic particles, subsequently leading to injury, poisoning, and at times death of the individual. The detrimental effects of plastic pollution in the rivers are not only confined to environmental degradation but also extend to economic and social dimensions, affecting livelihoods dependent on the river.

In response to these pressing challenges, the Wildlife Institute of India (WII), a knowledge partner institute to the National Mission for Clean Ganga (NMCG), and the Social Development for Communities (SDC) Foundation, Dehradun, Uttarakhand joined hands on this World Environment Day to curtail the plastic contribution into river Ganga and its major tributaries by organizing one week long cleanliness drive under the NMCG-WII phase II programmes "Planning and Management for Aquatic Species Conservation and Maintenance of Ecosystem Services in the Ganga River Basin for a Clean Ganga" and "Jalaj - Connecting River and People to Realize Arth Ganga" implementing multifaceted approach involving segregated plastic waste management practices, community engagement, and innovative technological solutions.

World Environment Day 2024 themed on "Land Restoration, Desertification, and Drought Resilience," is intricately connected with the urgent need to tackle plastic pollution and enhance waste management. As desertification and drought threaten arable lands and water supplies, the accumulation of plastic waste exacerbates these challenges by contaminating soil and water resources, further degrading ecosystems. Effective plastic pollution management is essential for restoring degraded lands and maintaining soil health, crucial for agricultural productivity and biodiversity. By integrating sustainable land management practices with robust plastic waste reduction and recycling initiatives, we can rehabilitate barren landscapes, mitigate the impacts of drought, and build resilient communities. This holistic approach underscores the importance of addressing both land degradation and plastic pollution to promote a healthier, more sustainable planet capable of withstanding climate-related challenges.

WII under the mentioned projects organised a week-long cleanliness drive along 18 rivers in 46 districts of nine (N=9) Ganga River basin states namely, Himachal Pradesh, Haryana, Rajasthan, Madhya Pradesh, Uttarakhand, Uttar Pradesh, Bihar, Jharkhand and West Bengal from the 16th to 21st May, 2024. More than 970 people including stakeholders (Fig. 1) such as Local communities, Ganga Praharis, Educational institutions, Forest Department, Panchayati Raj etc. participated in the campaign at 60 select locations (Table 1).



 Table 1: Details of campaigning site along the Ganga River Basin

State	District	Place	Total No. of Participants	Stakeholders	River
Uttarakhand	Chamoli	Joshimath	28	Local Community and Ganga Prahari	Alaknanda
	Champawat	Kanda and Simalta	33	Local Community, Educational Institution and Bal Ganga Prahari	Benigad
	Haridwar	Chandighat	9	Local Community and Ganga Prahari	Ganga
	Rudraprayag	Ratura	13	Local Community and Ganga Prahari	Alaknanda
	Tehri	Tiwad	10	Local Community and Ganga Prahari	Bhagirathi
	Uttarkashi	Hina Bridge	16	Ganga Prahari	Bhagirathi
Uttar Pradesh	Ayodhya	Dhannipur	20	Local Community and Ganga Prahari	Ghaghara
	Bulandshahr	Gandhi Ghat	22	Local Community, Ganga Prahari and Bal Ganga Prahari	Ganga
	Chandauli	Tandakala Ganga Ghat	24	Local Community, Local Business, Ganga Prahari and Bal Ganga Prahari	Ganga
	Etawah	Raniya	24	Local Community and Ganga Prahari	Yamuna
	Farrukhabad	Panchal Ghat	15	Local Community, Fishermen, Religious Group, Ganga Prahari	Ganga
	Ghazipur	Barah Ji Ghat	22	Local Community, Bal Ganga Prahari, Ganga Prahari	Ganga
	Gorakhpur	Ram Ghat	15	Local Community, Fishermen, Ganga Prahari	Rapti
	Jaunpur	Barah Ghat Ramgarh	28	Local Community, Bal Ganga Prahari, Ganga Prahari	Gomti
	Kannauj	Mahadevi Ghat	15	Ganga Prahari	Ganga
	Kanpur	Paramath Ganga Ghat	14	Ganga Prahari	Ganga
	Kashganj	Kachhala Ghat	15	Local Community, Ganga Prahari	Ganga
	Mirzapur	Vindhyachal	21	Local Community, Ganga Prahari	Ganga

"Flowing Towards a Plastic-Free Future" Cleanliness drive to make Rivers Plastic Free

State	District	Place	Total No. of Participants	Stakeholders	River
	Muzaffarnagar	Ganga ghat shukartal	18	Local Community, Ganga Prahari	Ganga
	Pilibhit	Triveni Ghat	40	Local Community, Ganga Prahari	Gomti
	Prayagraj	Sangam	22	Local Community, Ganga Prahari	Ganga anc Yamuna
	Sahjhanpur	Raghunathpur	15	Local Community, Ganga Prahari	Ram Ganga
	Sant Kabir Nagar	Dhodhya	21	Local Community, Fishermen, Bal Ganga Prahari	Rapti
	Varanasi	Rajghat	24	Local Community, Ganga Prahari	Ganga
	Bijnor	Chaudhary Charan Singh Madhya ganga barrage	32	Local Community, Ganga Prahari	
Bihar	Bhagalpur	Kadwa, Ismilepur, Sidhi Ghat and Kali Ghat	66	Local Community, Fishermen, Panchayati Raj, Ganga Prahari	Kosi
	East Champaran	Nagdaha	7	Local Community, Ganga Prahari	Gandak
	Jamui	Nagi-Nakti bird sanctuary	8	Ganga Prahari	Kiul
	Katihar	Ganga- Kosi sangam	7	Local Community, Ganga Prahari	Ganga and Kosi
	Khagaria	Siswa	20	Local Community, Ganga Prahari	Kosi
	Patna	Kangan Ghat	13	Local Community, Ganga Prahari	Ganga
	Samastipur	Sidhi Ghat and Baba Bakanath Ghat	34	Local Community, Bal Ganga Prahari, Ganga Prahari	Ganga
	Siwan	Rakauli	8	Local Community, Ganga Prahari	Ghaghara
	Supaul	Atal Kosi Maha Setu	7	Local Community, Ganga Prahari	Kosi
	Vaishali	Konhara Ghat and Loa	30	Local Community, Ganga Prahari	Ganga
	West Champaran	Kali Ghat and Sonaha Ghat	21	Local Community, Forest Department, Bal Ganga Prahari, Ganga Prahari	Gadak
Jharkhand	Sahibganj	Maskalaiya, Ghatjamni, Kanhaiya Sthan, Udhwa Bird Sanctuary	57	Local Community, Forest Department, Ganga Prahari	Ganga
West Bengal	Birbhum	Bank of Kopai	23	Local Community, Ganga Prahari	Кораі
	Kolkata	Alipore Zoological Garden	20	Local Community, Ganga Prahari	Hooghly
	Murshidabad	Farakka Tal Ghat	13	Local Community, Ganga Prahari	Hooghly
	Nadia and Hooghly	Mayapur and Nayachar	23	Local Community, Ganga Prahari	Bhagirathi
	Purba Medinipur	Jalaj Amnay	51	Local Community, Fishermen, Local Business, Religious Group, Bal Ganga Prahari, Ganga Prahari	Keleghai
	South 24 Parganas	Pakhirala, Beguakhali and Diamond Harabou	23 r	Local Community, Ganga Prahari	Datta and Hooghly

State	District	Place	Total No. of Participants	Stakeholders	River
Himachal Pradesh	Sirmaur	Sataun and Rampur Ghat	43	Local Community and Ganga Prahari	Giri and Yamuna
Haryana	Yamuna Nagar	Tajewala	17	Local Community and Ganga Prahari	Yamuna
Madhya Pradesh	Bhind, Morena	Barhi bridge, Rajghat	7	Educational Institute and Ganga Prahari	Chambal
Rajasthan	Sawai Madhopur	Palighat	5	Local Community, Forest Department and Ganga Prahari	Chambal



Figure 1: Participation of different Stakeholders

The campaign was undertaken in the vicinity of ecologically sensitive pockets of the Ganga River basin namely; Bakhira Wetland (Uttar Pradesh), Nagi Nakti Bird Sanctuary (Bihar) and Udhwa Lake Bird Sanctury (Jharkhand) holding immense ecological as well as economic importance. A few more sites such as Pakhirala in South 24 Parganas district of West Bengal, Chaudhary Charan Singh Madhya Ganga Barrage near Bijnor, Uttar Pradesh, Kanda and Simalta villages in Champawat district, Uttarakhand, Barhi Bridge in Bhind, Rajasthan and Palighat in Rajasthan holds significant importance as all them are in close proximity to Protected Area (PAs) viz. Sundarban Tiger Reserve. Haiderpur Wetland. Nandhaur Wildlife Sanctuary, Rajaji National Park and National Chambal Sanctuary respectively which all have

momentous ecological significance.

The SDC Foundation, an environmental action and advocacy group, aims to build a resilient future for the Himalayan state of Uttarakhand. By strategically emphasizing climate resilience, promoting a circular economy via waste management, and encouraging sustainable urbanization, the foundation diligently works to preserve the region's natural beauty while nurturing vibrant and self-sustaining communities. They have also partnered with the Dehradun **Cantonment Board and the Indian** Institute of Petroleum (IIP), a CSIR institute, to strategically recycle the plastics categorically by making reusable products or sustainable, environment friendly fuel alternatives.

The WII-NMCG Phase II project and the Jalaj project are pivotal initiatives aimed at revitalizing the Ganga River ecosystem and promoting biodiversity conservation. The WII-NMCG Phase II project, led by the Wildlife Institute of India (WII) in collaboration with the National Mission for Clean Ganga (NMCG), focuses on ecological monitoring, habitat restoration, and the conservation of endangered species such as the Gangetic dolphin. Complementing this, the Jalaj project, an innovative component of the NMCG, emphasizes community-based approaches to environmental stewardship. It involves creating livelihood opportunities through sustainable tourism and river-based activities, fostering a sense of ownership among local communities in preserving the river's health. Together, these initiatives integrate scientific research, community engagement, and sustainable practices to enhance the ecological integrity of the Ganga and ensure long-term environmental and socio-economic benefits.

CAMPAIGNING SITES ON FLOWING TOWARDS A PLASTIC FREE FUTURE

UTTARAKHAND

7 Sites4 Rivers Covered

More than 100 participants Ganga Praharis along with other local communities' members organized plastic free campaign in six districts of Uttarakhand. Seven (N=7) different sites along Alaknanda, Bhagirathi, Benigad and Ganga rivers were chosen for the campaign where more than 100 people participated actively for the cleanliness drive. During the programme, locals were sensitized about the illeffects of different type of plastics and were also motivated to discourage the use of plastic in their dayto-day life.



"Flowing Towards a Plastic-Free Future" <u>Cleanliness drive to make Rivers Plastic Free</u>





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UTTAR PRADESH

19 Sites**6** Rivers Covered

More than 400 participants A series of campaign were organized in 19 sites in different districts along six (N=6) rivers namely; Ganga, Yamuna, Ghaghara, Gomti, Ramganga and Rapti. Around 400 participants participated in the events who were informed about the practical ways to reduce single-use plastics and were also introduced to concept of eco-bricks and sustainable alternate fuel made from recyclable plastics. They were also encouraged to adopt sustainable practices and alternate resources to reduce the use of plastics in their daily life and contribute in the aquatic biodiversity conservation.















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BIHAR AND JHARKHAND

20 Sites

5 Rivers Covered

More than **270** participants

In Bihar and Jharkhand, plastic waste collection campaign was organized in 20 different sites in 12 districts along five (N=5) major rivers viz. Ganga, Gandak, Kosi, Ghaghara and Kiul. A total of 270 participants including Ganga Praharis, State Forest Departments, fishermen, members of Panchayati Raj and local communities participated in the campaign and took forward the message on the ill-effects of single-use plastics on the aquatic environment. Ganga Praharis also sensitized the local community members and motivated them to adopt sustainable livelihood practices and refrain from using plastics to ensure a cleaner and healthier environment.



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WEST BENGAL

9 Sites5 Rivers Covered

More than 130 participants A total of 130 participants, along with Ganga Praharis, conducted cleanliness drives in five districts of West Bengal. Total of nine (N= 9) different sites were covered during the campaign along five major rivers viz. Bhagirathi, Hooghly, Kopai, Datta and Keleghai. The Ganga Praharis spearheaded the drive and amplified the importance of aquatic biodiversity conservation as well as the adverse effects of single-use plastic on aquatic environment to the local communities. They also inspired the locals to lean on to sustainable alternatives of plastic products to curb the adverse effects of plastics into the aquatic ecosystems.





HIMACHAL PRADESH, HARYANA, RAJASTHAN, AND MADHYA PRADESH

6 Sites

3 Rivers Covered

More than 70 participants A total of six (N=6) sites were covered during the campaign along Yamuna, Giri and Chambal rivers in which more than 70 participants, including; Ganga Praharis, Forest Department officials and local community actively took part. During the programme, the Ganga Praharis sensitized local communities on sustainable and reusable plastic alternatives to curtail the use of single-use plastics for a safer environment.





OUTPUT AND IMPACT OF THE CAMPAIGN

A total of 72.2 kg plastic was collected at 60 different sites spread across the Ganga River Basin of which Multi-Layer Plastic (MLP) contributed the most (45.5 kg) followed by Banners & Bags (14.5 kg and 6.7 kg respectively). Low Density Plastics (LDP) were found to be least contributing in the entire collection only amounting 5.5 kg (Fig. 2).



The campaign was meticulously covered on the social media handle, namely, Facebook, Twitter and Instagram for the NMCG-WII Ganga and Jalaj projects and the Namami Gange, Ministry of Jalaj Shakti, GOI. There was an extensive coverage of the event by local and national newspapers with an approximate reach of 18.5 lacs and 3.6 lacs persons, respectively.

Figure 2: Type of Plastic Waste collected (%)

Media Type	Name	Approximate Reach
Print	Dainik Bhaskar	60678
	Prabhat Khabar	390397
	Dainik Jagran	154321
	Hindustan	800139 800139
	Punjab Kesari	239167
	Others	200000
Electronic	Facebook	250000
	Instagram	8790
	Twitter	107000



DISCUSSION

The "Flowing Towards a Plastic-Free Future" campaign offers significant insights into the widespread nature of plastic pollution across multiple river basins in India, revealing the critical intersections between environmental degradation, community health, and biodiversity conservation. The collection of 72.2 kg of plastic waste from 60 sites. with a predominant presence of Multi-Layer Plastics (MLPs) (45.5%), underscores the persistent challenge of managing non-recyclable materials. MLPs, often used in packaging for food and consumer goods like shampoo sachets and small food packets, pose a severe environmental threat due to their durability and resistance to degradation, making them a significant component of plastic waste in aquatic ecosystems.

The predominance of MLP waste is largely driven by economic factors, as many rural households can only afford small sachets of essential items like shampoo, detergents, and snacks. These single-use packages are more accessible for day-to-day purchases but result in a higher volume of plastic waste. The limited economic means in these communities restrict their ability to purchase larger, bulkpackaged goods, which would generate less waste per unit of consumption. This economic reality contributes to the widespread use of single-use plastics and MLPs, exacerbating plastic pollution in the environment.

This study's findings emphasise the urgent need to address the sources of plastic pollution at their origin, particularly through the implementation of Extended Producer Responsibility (EPR) schemes. EPR is a policy approach where producers are given significant responsibility-financial and/or physical-for the treatment or disposal of postconsumer products. By mandating that producers take back and manage the waste associated with their products, EPR can drive innovation in product design and materials management, reducing the environmental footprint of consumer goods.

The active participation of a wide range of stakeholders, including local communities including Ganga Praharis, educational institutions, forest departments, and civil society organisations, illustrates the potential for collaborative action in environmental conservation. The involvement of religious groups and fishermen in clean-up efforts highlights the diverse societal impacts of plastic pollution and the broad-based support needed to combat it effectively. This multi-stakeholder engagement is crucial, particularly in ecologically sensitive areas like Ramsar sites and wildlife sanctuaries, where the accumulation of plastic waste can have devastating effects on local biodiversity and ecosystem services. For example, the campaign took place near protected areas like the Sundarban Tiger Reserve, Udhwa Bird Sanctuary, Nandhaur Wildlife Sanctuary, Asan Conservation Reserve, Hastinapur Wildlife Sanctuary, Col. Sher Jung National Park (CSJNP), Kalesar National Park, National Chambal Sanctuary, Nagi Bird Sanctuary, Rajaji National Park, Bakhira Wetland and Haiderpur Wetland all of which hold significant ecological importance.

Moreover, the study reflects the critical role of communitybased initiatives in raising awareness and driving behaviour change at the grassroots level. The campaign's success in mobilising communities to participate in clean-up activities demonstrates the power of local action in addressing the challenge of the Ganga River conservation. However, the study also reveals gaps in waste management infrastructure and practices where improper disposal and lack of recycling facilities exacerbate the problem.

CONCLUSION

The outcomes of the "Flowing Towards a Plastic-Free Future" campaign reveal the importance of integrated and sustained efforts to address plastic pollution in India's river basins. The substantial collection of plastic waste, particularly MLPs, indicates that while community-driven clean-up initiatives are effective in reducing visible pollution, they must be complemented by systemic changes in production, consumption, and waste management practices.

The study highlights the need for robust EPR frameworks to ensure that producers are accountable for the entire lifecycle of their products, particularly for packaging materials that are challenging to recycle. By incentivising producers to design more sustainable products and take responsibility for waste management, EPR can significantly reduce the flow of plastic waste into aquatic ecosystems.

Additionally, the campaign's success in fostering community involvement suggests that future environmental initiatives should prioritise stakeholder engagement, ensuring that local populations are not only informed but actively participate in conservation efforts. This approach can lead to more sustainable outcomes, as communities take ownership of their environmental impact and contribute to long-term solutions.

IMPLICATIONS

This study's implications are profound, particularly in the context of policy development, environmental management, and community engagement.

POLICY DEVELOPMENT

Extended Producer Responsibility (EPR): Policymakers must prioritise the implementation of EPR schemes, particularly for products that generate significant amounts of plastic waste. This would involve setting clear guidelines for producers, including targets for waste reduction, recycling, and recovery and penalties for non-compliance. EPR can also drive innovation in packaging design, leading to the development of materials that are more easily recyclable or biodegradable.

Legislative Support for Community Initiatives: Legislative frameworks that support community-driven initiatives are needed. These could include grants or subsidies for local clean-up activities and policies that facilitate partnerships between government agencies, NGOs, and local communities.

Trade-related policy measures: Prohibition imposed on single-used plastic items, while restriction on the import of plastic waste should be implied. Along technical regulation and specification not related to bans, subsidies, and government procurement measures.

ENVIRONMENTAL MANAGEMENT

Improving Waste Management Infrastructure: The study highlights the need to enhance waste management infrastructure. This includes the development of efficient collection, segregation, and recycling systems that can handle different types of plastic waste, including MLPs.

Monitoring and Data Collection: Regular data collection can help track the effectiveness of waste management strategies and inform adaptive management practices.

Environmental Sound Managament: ESM includes all the practicable steps that ensure that hazardous and other waste are managed in a manner that protects human health and the environment against the adverse effects. It includes a waste management hierarchy including waste prevention, minimisation, reuse, recycling, recovery, and final disposal.

COMMUNITY ENGAGEMENT

Education and Awareness: The study highlights the essential role of environmental education in promoting a culture of sustainability, particularly in the context of plastic pollution and biodiversity conservation. It emphasizes the need to integrate educational programs into school curricula and community outreach initiatives, focusing not only on the impacts of plastic pollution but also on the importance of biodiversity conservation. Such programs should educate communities on the ecological consequences of plastic waste and foster an understanding of the critical relationship between waste management and the preservation of biodiversity.

Empowering Local Communities: Empowering local communities to take action against plastic pollution is critical. This can be achieved through capacity-building programs that provide communities with the knowledge and tools needed to manage waste effectively and participate in environmental conservation.

REPLICATION OF

Scaling Up Successful Models: This campaign model can be replicated in other regions, particularly in areas with high biodiversity or significant ecological value. By scaling up successful initiatives, it is possible to create a broader impact on reducing plastic pollution at a national or even global level.

PRINT MEDIA

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भागलपुर 18-05-2024

ञंगा किनारे प्लास्टिक को इकहा किया गया

DEEI रिप्रेटा जिटा प्राष्ट्रियां भारतीय जन्य जीव संस्थान प्राद्ध के सरवाभान में एयस्डीजी-जल्ज टीम ने प्र्लास्टिक का के र्क्षात्र कि स्विप्र किंग्स का किंग के स्वार्थ कि किंगरे) का स्वच्छता जीमवान जलावा। प्रसंगे 11 प्रहरियों और स्थानीय समुदाय की को प्लास्टिक कचरा एकक करने 1 प्रक्रिया में शामिल किया गया। किंग मा प्रहरी एवं स्थानीय समुदाय किंगा गांदरी एवं स्थानीय समुदाय काराया गया कि नम्स्कीन, किंस्कुटर प्रस्क्रीम, चिप्त आदि के विभिन्न वनियों के प्लास्टिक केया जाता है, िल भुकालन का िविष्स आदि के के एलास्टिक करा प ज करने का अनुरोग गंगा प्रहरियों और लोगों ने गंगा नदी के को इकट्ठा किया। के सहायक स्मान्वर ग ने बलाया बि 2. 2. T 5 1 को के वय वि



प्रयोग प्ल प्रकृति को करने के

ধ্ৰण স্যুৰু

टी सामान बच्चों, महिलाओं ने एकत्र किया प्लास्टिक कचरा





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पृथ्वी बनाम प्लास्टिक ः गोमती को प्लास्टिक



प्लास्टिक मुक्त नदी को लेकर चलाया अभियान



फाउंडे पेट्रोलि सुनिशि भारती असिर कुमार गोपाल शिवम शिवम कर त है सुधांश

इस्माइलपुर में गंगा नदी के किनारे चलाया स्वच्छता अभियान



ज अनुरो जे गंगा

प्लास्टिक मुक्त बनाने के लिए स्वच्छता अभियान चलाया

नपुर, पीलीभीत। भारतीय ति संस्थान के टीम, गंगा के द्वारा नमामि गंगे जला के तहन नदियों को टेक्स पुरुष करी के स्थान ती भाट गोमती नदी, में ता अभियान क्लाया गया। प्रार्थक के भाटपूर गोमती ताट के किनरो अप्लादिक दियों एयं 62 स्थान में सजात दियों एयं 62 स्थान में सजात एवं स्थानीय लोगो के सहयोग से गोमती नदी के किनारे की सभी प्लास्टिक जैसे खाद पदार्थ की मस्टी लेखर वाली पैकेट, प्लास्टिक की थैली, शैंपू पाठव, सबचुन पैकेट, स्पर्क पैकेट, अमरावसी पैकेट, स्पर्कलि, हार्ड प्लास्टिक, व्यूटी प्रोडक्ट की 62 स्थान में सप्ताह अभियान के तहत न चलाया जा रहा रू जीव संस्थान से भारतीय वन्य जीव संस्थान से नियर प्रोजेक्ट असोसिएट हेल खान ने बताया यह भेयान आविश्व पर्यावरण दिवस 24आ के उत्सव के एक हिस्से रूप में चलाया जा रहा है, सका मुख्य विषय अपृथ्वी ाम प्लास्टिकआ है। गंगा प्रहरी प्लास्टिक इत्यादि को इकट्ठा किया गया। स्थानीय ग्रामीणों से यह अनुरोध भी किया गया कि गोमती वा इसके आसपास की नादियों में अपना घरेलू कचरा न ऐमके तथा नदी में साबुन,रींषु, सर्फ इत्यादि का उपयोग न करें तथा उसका



अभियान चलाया गया। इस बाबत) बचाना है। एकत्रित कर नदी को कचड़ा से मुक्त कर पुछे जाने पर जलन फील्ड असिस्टेंट बताते चले कि नदी व नदी के नदी व नदी को स्वच्छ बनायाँ गया। मुकेश कुमार ने बताया कि गंगा प्रहरी आसपास पड़े कचड़ा जो हमारे तथा लोगों को जागरूत करते हुए के टीम के साथ गंडक नदी व नदी पर्यावरण को दूषित करने के साथ- स्वच्छता का संदेश दिया गया।

मृक्तरखने को चलाया सफाई अभियान गोमती सहित अन्य नदियों को स्वच्छ रखने का दिया संदेश वन्यजीव संस्थान की टीम ने एकक्रित किया गया। भारतीय नदियों को प्लाटिक मुक्त बनाने वन्य जीव संस्थान टीम ने गंगा के लिए पूरलपुर ताइसील क्षेत्र प्रहारियों और स्थानीय समुदाय के गंव घाटनपुर विवेणी धाट के साथ मिलकर घाटनपुर गोमसी खातिर विवाहिता का ALL.

पैकेट को भी नदी पर न छोड़ें। इस प्रोग्राम में उपस्थित जलज फोल्ड असिस्टेंट हसनैन वा गंगा प्रहरीयो ने भाग लिया, जिन्होंने स्थानीय लोगों को हमारे पर्यावरण में एलास्टिक के डानिकगक राने में तीन पर मुकदमा **2101 भी CIIPI ਪ2 230004** भी कि मार्ग के मार्ग मिर्गम के मार्ग क के अलावा संस मुल्नी वर्ज किया कुमार ने र विवाहिता

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नमामि गंगे की टीम ने स्वच्छता के प्रति लोगों को किया जागरूक

गंगा को प्लास्टिकमुक्त बनाने को चलाया स्वच्छता



सारिष्टव जना करेला नाम्राजरा **गोहलाट्र.** भारतीय वन्य जीव संस्थान देहरादून के तत्वापान में जलज टीम ने प्लारिटनमूक पश्चिय की ओर बढते हुए, घरणीपट्टी पूर्वी स्थित उविवार को बाबा बालनाथ घाट पर रवन्छता अभियान प्रलाया, इसमें गंग प्रार्थयो और स्थानीय लोगों ने किनारे पर लाटिरक करताए प्रकार किया. जिसमें गनाविन, बिरबुट, आइसक्रीम, चिप्स सहित प्रिक्त किया किया प्रसिन्ट के पेश सामिल हैं. इस अभियान में भारतीय बन्य जीव संस्थान के असिस्टेट को आहिटेस्ट कुमाल कुमार सिंह, बिट्टू सिंह, गयक गोपाल सिंह, सौरभ, कुणाल, शिवम, मोहित, तेज प्रताप, रूपक शामिल थे.

भारतीय वन्य जीव संस्थान ने नादियो को प्लास्टिक मुक्त बनाने के लिए चलाया स्वच्छता अभियान

पीलीभीत। रविषयर को रतीय वन्यजीव संस्थान के टीम गंग रती के ह्या नमासि गंगे परियोजना तहत नदियों को एलास्टिक मुक तहत नदियों को एलास्टिक मुक ते हेतु जरार प्रदेश जिला पीलीभीत स्थान त्रिवेणी घाट गोमती नदी में त्यक्रा अभियान चलाया गया। समें एलास्टिक एकतित किया	4.1	
सस प्लास्टक एकाउत गरुवा । भारतील बच्च गेथा संस्थान देश । भारतील क्या गेथा संस्थान दाश दीस क्या के स्वान्त्रेय स्मुदाय दाशपुर गांसा ने क्या कर के स्वान्त्रे संदिद्ध सुम्ल भीष्ठय के किस्ते गिरावा के सांसाह प्रयंत्ना स्वान्ध्र अभि राभ्यान के सदी तरिवर प्रोजेक्ट भारता के सींसिवर प्रोजेक्ट स्वान के सींतिवर प्रोजेक्ट स्वान के सींतिवर प्रोजेक्ट स्वान के सींतिवर प्रोजेक्ट स्वान के स्वान ने बलाया यह भारता के स्वान के स्वान के स्वान के स्वान के स्वान का स्वान के स्वान क्या स्वान के स्वान के के स्वान के स्वान के स्वान के के के स्वान के स्वान के के स्वान के के के के स्वान के स्वान के के के स्वान के स्वान क्या के के स्वान के स्व	रूप में पहलावा जा रहा है तिसम्बन पूछला स्विद्य पूछले धनवा प्लाडिप्त है तरण जरही रहां स्वयन्त्रिय तोर के संस्वर्धिय से गोपता पूर्व के कियार के स्वर्धिय हो प्रेरत क्रांच के किंदा, प्लाडिप्त की मेरीत, में प्रार्थ प्राराज, सायुन् मेंकेट, सार्थ फिल, जार प्राराज, को इस्ट्रज कि प्राराज, सायुन मेंकेट, सार्थ फिल, जार्ड प्राराज, को इस्ट्रज कि प्राराज, सायुन सोनालों में अम्पन म्येराज की मार्ट कि मार्थियों के अम्पन मेरेख आयास की	हरवारि का उपयोग ज करें जब उपयाग पैकेट की भी जारी पर कोई। इस प्रोग्राम में उन्नरियन कालन वेल्ड असिस्टेट हरारीन म प्रवारीक कोरों को हमारे पर्यावरन में उत्तरीटक के की हमारे पर्यावरन में उत्तरीटक की की हमारे पर्यावरन में उत्तरीटक की कालिस्टारक प्रधान के बारे में जागरकक किपाठवर्शिय प्रविधारियों के हातिस्टारक प्रधान कोर, सहाला, असन्य कर्षा, अन्य आदि परा प्रदर्श अधिपाल जल्सा पूर्वक किया पर्याव

त्रिवेणी घाट पर कचरा बीनकर गोमती नदी को स्वच्छता का दिया संदेश

प्रचिध्यता का दिया सरदेश स्वच्छता का दिया सरदेश मारब कनेक्ट, पूरनपुर, पीलीभेता। भारतीय वन्य जीव संस्थान टीम ने गंग एहरियो और स्थानीय समुदाय के लाब निलकर पाटनपुर गोनती नदी घाट के किनारे प्लास्टिक मुक्त भविष्य की ओर अभियान के। 5 नदियो एवं 62 रखान में साहाड पर्यन्त सरकारता अभियान के ताहत सण्ठाई अभियान ने तर्वस्थान की टीम ने नवियों को एलास्टिक मुक्त बनाने के लिए पूरनपुर रहसींल क्षेत्र के गांव घाटनपुर विवेधी पाट गोनती नदी में स्वच्छता आभियान चलाया। इसमें प्लास्टिकर एकति किया गया। भारतीय वन्य जीव संस्थान को टीम ने नवियों को एलास्टिक मुक्त बनाने के लिए पूरनपुर रहसींल क्षेत्र के गांव घाटनपुर विवेधी घाट गोनती नदी में स्वच्छता आभियान चलाया। इसमें प्लास्टिकर फुकति किया गया। भारतीय वन्य जीव संस्थान का टिकनार प्लास्टिक कु का शत्वीष्य की आंर अभियान के 15 नदियों एवं 62 स्थान में साहा पर्यन्त स्वच्छता अभियान के तहत सफाई अभियान चलाया जा रहा है। भारतीय वन्य जीव संस्थान से सीनिय प्रोजेक्ट अलेसिएट राहिल खान ने बताया यह अभियान के तहत सफाई अभियान अस्तीसएट राहिल खान ने बताया यह अभियान से स्वतिय प्रोतंक्य अस्य विषय पुध्वी बनाम प्लास्टिक जै सभ पालस्टिक जै स्व विषय पुध्वी बनाम प्लास्टिक के सभे प्लास्था पा सह है। जिस्का मुख्य विषय पुध्वी बनाम प्लास्टिक की बेली, शेपू पाउच, साहुन पेकेट, सर्फ पैकेट, अनरबती पैकेट, धनाकिल, हार्ड प्लास्टिक जे स्व छा पादा है। को क्लिटी के इत्यादि को इकहा किया गया। स्थानीय याभीगों से यह अनुरोध भी किया गया कि गेमती वहे सर्क आसालास की नादिरिटक जै से खाट पादेल को प्लोट के त्या नही में साहुन, शेपू, सर्फ इत्यादि का उपयोग न करे तथा उसका पैकट को भी नदी पर न छोड़े। इस प्रोप्रान में उपस्थित जलका के देल का के के नी नदी पर न छोडे। इस प्रोप्रान प्र प्लास्टिक प्र स्थानीय तोनों के हाये पर्यादरण में प्लास्टिक के हानिकारफ प्रात्ती के बार में जागरकक कि किया।

Latest News व कुमार को दिल्ली पुलिस ने किया गिरफ्तार, सीए गंगा नदी घाट के किनारे चला स्वच्छता अभियान

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तालझाही. भारतीय वन्यजीव संस्थान के जलज परियोजना की टीम ने शनिवार को गंगा प्रहरियों के साव तालझाती प्रखंड के मरकरीया गंगा नदी याट के किनारे प्लास्टिक मुक्त भविष्य की ओर स्वच्छना अभियान चलाया. जलज उत्सवी वरुण कुमार मंडल ने बलाया कि 16 नदियों के 62 रखान में सरताह पर्वत स्वच्छना अभियान के तहत सफाई अभियान चलाया जा रहा है. गंगा प्रहरी व स्वानीय लोग के सहयोग से गंगा नदी के किनारे मन्दी लेयर वाले पैकेट, प्लास्टिक की बैली, शैपू का प्रउच, साबुन, सर्फ, अमरती, ब्रमोकोल, हां ईंप्लास्टिक की बैली, शैपू का प्रउच, बरुया व फेक, गंगा नदी में साबुन, श्री, सफ आदि का अरपोश न करें. मौके पर कराव ज फेक, गंगा नदी में साबुन, श्री, सफ आदि का अरपोश न करें. मौके पर करण कुमार मंडल, राजेश सिल्हा, लल्लन कुमार, राहुल कुमार, हजारी कुमार मंडल, किशन कुमार मंडल, अमन कुमार मंडल आदि मौजदुद थे.



गंगा में मिले प्लास्टिक को भेजा गया देहरादून

भारकर न्यूज़ | नवगछिया भारतीय वन्यावी समुराज के साम उजनावजा संसथा-रास्ता सीजी जातन कैरवाड़ी। तकि जातन उजनावजा संसथा-रास्ता सीजी जातन कैरवाड़ी। तकि जातन कोज पेन व सदितार किता केंगर्ता कहे। एका प्लांदिवा का पुर्वेत्ते वार्ट्य में पंज की उजनी कहा साथा के स्वर्थनीय प्रार्थी का कर का का के के साथा क स्वर्थना प्रार्थी का कर का का के के साथा का का के प्रार्थ के प्रार्थ के साथा के साथा के की साथा के जीए एसडीनी पारंडेवन के लिए आखा किल्यातीक के जीए एसडीनी पारंडेवन के लिए आखा किल्यातीक के कीईटिपर राहत कार तम के सिता कोडिंटिया जात कार तमा की ही कीईटिपर राहत कार तम ने से आधा स्वर्भन की दिना कीईटिपर राहत कार तम ने से आधा स्वर्भन की दिना



WAY FORWARD

Beating plastic pollution lies in fostering effective participation from local communities, who play a crucial role in driving sustainable environmental practices. Empowering communities through education and awareness programmes about the detrimental impacts of plastic waste can inspire collective action towards reducing plastic use and enhancing recycling efforts. Local initiatives, such as community regular clean-ups, plastic-free campaigns, and the establishment of local recycling centres, can significantly mitigate plastic pollution at the grassroots level. Additionally, promoting the use of eco-friendly alternatives and supporting local innovations in plastic waste management can further strengthen these efforts. By involving local communities in policy-making, encouraging sustainable consumer behaviours, and providing the necessary resources and support, we can create a robust, community-driven movement towards ensuring a plastic-free environment. This participatory approach ensures that our fight against plastic pollution is inclusive, effective, and sustainable, ultimately leading to healthier ecosystems and improved quality of life.

Ecologically sensitive pockets and PAs covered in the campaign

- Bakhira Wetland, a Ramsar site, located in the Sant Kabir Nagar district of Uttar Pradesh, is of immense ecological, socio-economic, and environmental importance. As the largest natural floodplain wetland in eastern Uttar Pradesh, it serves as a critical habitat for a diverse array of flora and fauna, including numerous migratory bird species. This biodiversity hotspot supports ecological balance, offering breeding grounds and food resources essential for wildlife. Additionally, the wetland plays a vital role in water purification, flood mitigation, and groundwater recharge, contributing to the overall health of the regional water systems. For local communities, Bakhira Wetland is a source of livelihood through fishing, agriculture, and tourism, emphasizing the need for sustainable management practices. Protecting and preserving this wetland is crucial not only for maintaining biodiversity and ecological functions but also for supporting the socioeconomic well-being of the surrounding populations.
- Udhwa Lake Bird Sanctuary, located in the Sahibganj district of Jharkhand, is a vital ecological haven known for its rich biodiversity and crucial role in avian conservation. Nestled amidst the Gangetic floodplains, encompassing the twin lakes of Pataura and Berhale, the sanctuary serves as a crucial stopover and wintering

ground for a plethora of avian species, including endangered and rare birds. It serves as an essential breeding and feeding ground, supporting both resident and migratory populations, thereby contributing significantly to global biodiversity. The wetland ecosystem of Udhwa Lake also plays a critical role in water purification, flood control, and groundwater recharge, which are vital for maintaining the health of the surrounding environment. Furthermore, the sanctuary supports local livelihoods through ecotourism and fishing, offering educational and recreational opportunities that enhance community awareness and involvement in conservation efforts. Preserving and conserving Uddhwa Lake is not only imperative for safeguarding biodiversity and ecosystem services but also for ensuring the well-being of both nature and humanity in the region.

Nagi Nakti Bird Sanctuary, nestled in the scenic landscape of Jamui district, Bihar, India, holds immense ecological significance as a sanctuary for avian biodiversity. Spanning over lush forests, marshes, and wetlands, encompassing two small but ecologically significant lakes Nagi and Nakti, this sanctuary serves as a vital habitat for a diverse array of bird species, including migratory, resident, and endangered birds. Its strategic location along bird migration routes makes it a crucial stopover and breeding ground for numerous avifauna. Beyond its ecological importance, Nagi Nakti Bird Sanctuary plays a vital role in supporting local ecosystems, regulating water cycles, and preserving natural habitats. Additionally, it offers immense educational and recreational value, attracting birdwatchers, nature enthusiasts, and researchers to marvel at its avian diversity and pristine wilderness. Preserving Nagi Nakti Bird Sanctuary is imperative not only for safeguarding bird populations but also for maintaining ecological balance and promoting sustainable tourism and socio-economic development in the region.

- Haiderpur Wetland, located within the Hastinapur Wildlife Sanctuary in Uttar Pradesh. is a substantial ecological asset. Formed in 1984 after the construction of the Bijnor Barrage, it spans over 30,000 acres and is one of the largest human-made wetlands. This wetland plays a crucial role in supporting livelihoods, controlling floods, storing and purifying water. It is home to a rich biodiversity, including more than 30 species of plants, over 40 types of fishes, and more than 300 species of birds. The wetland also provides shelter to various wildlife species, including the critically endangered Gharial. Recognized as a Ramsar Site, an international designation for important wetlands, Haiderpur Wetland is a testament to the importance of preserving and maintaining our natural habitats.
- Sundarban Tiger Reserve, located at the mouth of the Ganges and Brahmaputra Rivers between India and Bangladesh, is a globally significant ecological site. Covering 10,000 km², it contains the world's largest area of mangrove forests. This reserve is the only coastal wetland tiger habitat in the world, and is home to the single largest population of tigers, which have adapted to an almost amphibious life. The reserve also supports a wide range of fauna, including globally endangered species like the Royal Bengal Tiger, Ganges and Irawadi dolphins, estuarine crocodiles, and the critically endangered endemic river terrapin (Batagur baska). The Sundarban Tiger Reserve also plays a crucial role in maintaining biodiversity, acting as a storm barrier, shore stabilizer, nutrient and sediment trap, and a source of timber and natural resources to the local communities.
- Nandhaur Wildlife Sanctuary, established in 2012, is an important ecological site in Uttarakhand. Spanning over 270 square kilometers, it is home to a diverse range of wildlife, including tigers, wild elephants, leopards, jungle cats, nilgai, small Indian civet, jackals, wild boars, flying foxes, and sloth bears. The sanctuary also hosts over

200 species of birds, making it a haven for birdwatchers and researchers. The sanctuary is primarily a sal forest with more than 100 species of trees, providing a rich habitat for various species. Since 2002, it has been a part of the Shivalik Elephant Reserve, and in 2004, the Wildlife Institute of India recognized it as one of the three viable habitats key to the long-term future of the tiger. The Nandhaur Wildlife Sanctuary plays a crucial role in biodiversity conservation and serves as a testament to the importance of preserving natural habitats.

- Rajaji National Park, located in Uttarakhand, India, is a noteworthy ecological and conservation landmark. Spanning over 820 km², it serves as an important ecological corridor, connecting the Shivalik and Himalayan ecosystems. The park is home to a diverse range of wildlife, including elephants, tigers, leopards, deers, and ghorals, and is particularly renowned for being at the northwestern limit of distribution for both Indian elephants and Bengal tigers. In 2015, it was declared a tiger reserve, making it a crucial part of the Rajaji-Corbett-Tiger Conservation Unit. The park also plays a significant role in maintaining biodiversity, acting as a storm barrier, shore stabilizer, nutrient and sediment trap, and a source of timber and natural resources. Its rich biodiversity and geographical significant location make it a significant conservation landmark.
- National Chambal Sanctuary, also known as the National Chambal Gharial Wildlife Sanctuary, is a significant tri-state protected area in northern India. Spanning over 5,400 km², it was established in 1979 for the protection of critically endangered species such as the gharial, the red-crowned roof turtle, and the endangered Ganges River dolphin. The sanctuary is located on the Chambal River near the tripoint of Rajasthan, Madhya Pradesh, and Uttar Pradesh. The sanctuary is home to a diverse range of fauna, including eight rare turtle species out of the 26 found in India. It is also the main area for the species reintroduction program of the crocodilian species Gavialis gangeticus (Gharial), supporting the largest population of Gharials in the wild.
- Kalesar National Park (KNP) is situated in the Yamunanagar district of Haryana and is part of the western end of the Shivalik landscape. KNP is known for harbouring a healthy population of common leopards.

In April 2023, a tiger was photocaptured in KNP after a gap of 110 years. A few months before, one adult tiger was also captured in camera traps in the adjacent Col. Sher Jung National Park (CSJNP) suggesting that the tigers from Rajaji Tiger Reserve using these forests as corridors to move around. Tiger pugmarks were reported from KNP and CSJNP until 2009 and 2013, respectively. But no direct sighing of the Tiger was reported after 1913. Hence, KNP along with the adjacent Colonel Sher Jung Bahadur National Park in Himachal Pradesh can form a suitable breeding ground and a new territory for the tigers. As an Important Bird Area (IBA), KNP also hosts more than 200 bird species, including the endangered egyptian vulture (Neophron percnopterus), near threatened species like painted stork (Mycteria leucocephala), river lapwing (Vanellus duvaucelii). With the Yamuna River flowing on its east, its protection is essential for the catchment conservation of the river.

Col. Sher Jung National Park (CSJNP) is situated at Simbalbara in Himachal Pradesh, along the border between Himachal Pradesh and Haryana. Located in the Sirmour district, CSJNP, together with Kalesar National Park (KNP) in Haryana, forms a significant interstate conservation unit in the Western Shivaliks. This park is notable for being the only national park in the Shivaliks of Himachal Pradesh that has well-protected Sal forests. Positioned in the watershed of the Yamuna River, CSJNP also plays a crucial role in regulating the runoff of precipitation into the Yamuna.

The park is home to a substantial wildlife population, making it vital for long-term conservation efforts. The Common Leopard serves as the apex predator within the park, which also supports the westernmost population of Chital in the Himalayan foothills. Additionally, Gorals can be found on the steep ridges of the Shivalik hills. CSJNP is also a haven for bird enthusiasts, with about 117 bird species recorded in the park.

• The Asan Conservation Reserve (ACR) is situated in Dehradun district of Uttarakhand and is spread over an area of 444.4 ha. Located at the confluence of Asana and Yamuna rivers, it was formed due to the damming of Asan River in 1967 to form Asan Barrage and declared as a Conservation Reserve in 2005 under Section 36A of Wildlife (Protection) Act, 1972. It is also the first Ramsar site in Uttarakhand. ACR supports over 330 species of birds including the critically endangered red-headed vulture (Sarcogyps calvus), white-rumped vulture (*Gyps bengalensis*) and Baer's pochard (*Aythya baeri*), steppe eagle (*Aquila nipalensis*), and vulnerable- marbled teal (*Marmaronetta angustirostris*), common pochard (*Aythya ferina*), Indian spotted eagle (*Clanga hastata*). It is one of the best-known sites for the congregation of ruddy shelduck (*Tadorna ferruginea*) and red-crested pochard (*Netta rufina*). It also supports 49 species of fish, including the endangered Mahaseer (*Tor putitora*).

Hastinapur Wildlife Sanctuary is spread across Meerut, Ghaziabad, Bijnore and Jyotiba Phule Nagar districts of Uttar Pradesh. The area was declared a Sanctuary in 1986 in order to protect and conserve the ecology and biodiversity of the Ganga basin. With an area of 2073 sq. km., the grassland of the Sanctuary holds a variety of flora, avifauna and a population of Swamp deer and Hog deer.

It was established to protect the state animal of Uttar Pradesh, viz., Swamp Deer (*Rucervus duvaucelii duvaucelii*). Other mammalian species recorded here include Hog deer (*Axis porcinus*), Blackbuck (*Antilope cervicapra*), Nilgai (*Boselaphus tragocamelus*), wild boar (*Sus scrofa*), Golden jackal (Canis aureus), Jungle cat (*Felis chaus*) and Fishing cat (*Prionailurus viverrinus*). Along with rich mammalian fauna, the Sanctuary is home to 180 species of birds along with a large congregation of migratory waterbirds visiting the area during winter. Asian Openbill (*Anastomus oscitans*) has established several colonies while Sarus crane (*Grus antigone*) is also recorded to breed here.

NOTE









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