



National Mission
for Clean Ganga



भारतीय वन्यजीव संस्थान
Wildlife Institute of India

BIODIVERSITY CONSERVATION AND GANGA REJUVENATION

ANNUAL REPORT Phase I & II





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ANNUAL REPORT Phase I & II

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NMCG

National Mission
for Clean Ganga,
Ministry of Water
Resources, River
Development &
Ganga Rejuvenation

GACMC

Ganga Aqualife
Conservation
Monitoring
Centre

Wildlife Institute of India

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Uttarakhand

www.wii.gov.in/national_mission_for_clean_ganga



Annual Report
Phase I & II

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Wildlife Institute of India

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FROM THE DIRECTOR'S DESK

The restoration of the Ganga River and its biodiversity is undoubtedly a challenging task. In addition to the complexities of river ecosystem conservation, the high resource dependence of the local communities residing along the river banks has also to be factored in. In view of this, the Wildlife Institute of India has taken up the 'Biodiversity Conservation and Ganga Rejuvenation' project in collaboration with the National Mission for Clean Ganga (NMCG). A comprehensive strategy to restore the biodiversity values of the Ganga River is being implemented under the project.

The pursuance of the goal of the project 'Science-based species restoration of the Ganga River through the involvement of multiple stakeholders' entails not only robust research and monitoring but also liaisons with the multitude of stakeholders at the village, districts, state and national levels. The Ganga Aqualife Conservation Monitoring Centre (GACMC) has been established at WII's campus in Dehra Dun. It is aimed to be a dynamic centre of excellence for Ganga aqualife conservation and to spearhead the conservation planning process through active synchronization with the various field teams working on different aspects of the project. Currently, the GACMC has been conceived to be 'virtual' in character but eventually it will transform into a 'real' centre, where stakeholders can interact with professionals in many ways.

Under the project, a rapid biological assessment of 2025 km stretch of the Ganga River from Devprayag to Farakka was done for the first time. The rapid assessment was done through boat surveys, supplemented with on-foot and vehicle surveys depending on the terrain. The outcome of this assessment confirms the rich and diverse aqualife retained by the Ganga River in the face of multiple stressors including reduced flows, pollution, unsustainable resource use and construction of dams/barrages.

Several stakeholders' including Forest officials, Veterinarians, representatives from local governing bodies, local communities and students have been provided trainings on the various aspects of aqualife conservation. Rescue and Rehabilitation Centres at Narora and Sarnath, Uttar Pradesh have also been established.

The progress and achievements of the project have been displayed through print and digital media and on various platforms from time to time. This report summarizes the activities done under the six components of project during 1st July 2016 to 30th June 2017 and 24th October 2016 to 23rd October 2017 for Phase I & II, respectively.

Dr. V. B. Mathur
Dehradun
November, 2017



BACKGROUND

The Ganga Basin is home to about 25000 floral and faunal species. The aquatic faunal diversity of Ganga River is represented by the Gangetic river dolphin (*Platanista gangetica*), three species of otters, three crocodilian species including the critically endangered Gharial (*Gavialis gangeticus*), and at least 12 species of freshwater turtles including critically endangered *Batagur kachuga* and several species of fish such as critically endangered Ganges shark (*Glyphis gangeticus*), Ganges stingray (*Himantura fluviatilis*), Mahseers (*Tor* spp.), Hilsa (*Tenualosa ilisha*) and several species of endemic freshwater crabs. In addition to these species, obligate aquatic species like waterbirds and island nesting birds are important component of the Ganga River Basin. The aquatic wildlife of the Ganga basin including the mainstem Ganga River is under stress due to reduction in water levels, pollution, over-exploitation of riverine resources leading to habitat degradation.

PHASE I

1

Establish Ganga Aqualife Conservation Monitoring Centre at WII Dehra Dun for science based conservation planning and dissemination of information.

3

Develop capacity of Forest Department and other stakeholders of the Ganga River States in monitoring of identified species of conservation significance.

4

Assist NMCG in establishing the rescue and rehabilitation centres for endangered fauna of the Ganga at select sites by developing human resources and infrastructure with support from the Forest and Veterinary departments.

The Ministry of Water Resources, River Development and Ganga Rejuvenation (MoWR, RD&GR), Government of India initiated the National Mission for Clean Ganga (NMCG) with a comprehensive approach to restore the aquatic environment of the Ganga River through four different sectors, viz. wastewater management, solid waste management, industrial pollution and river front development. NMCG developed a comprehensive strategy to restore the biodiversity of the Ganga River and identified Wildlife Institute of India (WII) as the lead partner institution for aquatic species restoration. NMCG took up a collaborative project with WII aiming to prepare a science-based aquatic species restoration plan for the Ganga River by involving multiple stakeholders. The project “**Biodiversity Conservation and Ganga Rejuvenation**” has six components approved in two phases. Phase I consisting of Components 1, 3 & 4 was approved in July 2016, while Phase II consisting of Components 2, 5 & 6 was approved in October 2016 in separate AA&ES. This report provides information on the work carried out under Phase I (1st July 2016 to 30th June 2017) and Phase II (24th October 2016 to 23rd October 2017) respectively.

PHASE II

2

Prepare biodiversity profile of Ganga River and develop pilot species restoration plans for select stretches and species.

5

Elicit participation of local communities in NMCG initiatives by providing platforms through Panchayati Raj System, capacity development and payment for ecosystem services.

6

Develop and implement conservation education programmes for the riverside communities of the Ganga River.



ESTABLISHMENT OF GANGA AQUALIFE CONSERVATION MONITORING CENTRE

NATIONAL LEVEL PROJECT LAUNCH

... from where it all started

The project was launched at National Level on 7th July 2016 at Haridwar. The occasion was graced by Sushri Uma Bharti, Hon'ble Union Minister of Water Resources, River Development and Ganga Rejuvenation, Shri Nitin Gadkari, Hon'ble Union Minister of Road Transport, Highways and Shipping of India and Dr. Mahesh Sharma, Hon'ble Minister of Tourism and Culture.

The Project was simultaneously launched at Narora, Sarnath, Bhagalpur and Sahibganj integrating mainstream Ganga States.

A National and State level launch of the Project made way for a better understanding regarding the objectives, approach and expected outcomes of the NMCG-WII project to various stakeholders.



PHASE I

WII as the lead knowledge partner and conservation planning body of NMCG established the Ganga Aqualife Conservation Monitoring Centre (GACMC) for the restoration of the Ganga River and its aqualife. GACMC is set up as a nodal agency for conservation actions and policy planning. The aim of the Centre is to promote, design and implement science-based restoration processes for the monitoring and conservation of the biodiversity of the Ganga River. GACMC has initiated systematic conservation processes for effective conservation of the threatened aqualife.

ENSURING COLLABORATION AND SUPPORT

Liaison with partners in conservation



The Forest Departments of Uttarakhand, Uttar Pradesh, Bihar, Jharkhand and West Bengal are partners in WII's effort of Ganga aqualife conservation and lending their support through patronage, coordination and active involvement.

Cooperation and collaboration have been ensured for carrying out ecological assessment of Ganga River basin and other field related activities in all the five states.





GANGA AQUALIFE CONSERVATION MONITORING CENTRE

A Centre to spearhead
Ganga rejuvenation



The Ganga Aqualife Conservation Monitoring Centre was established in WII campus in Dehra Dun and integrated with existing facilities of WII for spatial analysis, ecotoxicological research, conservation genetics, library documentation as well as field monitoring and assessment.

VIBRA

Gathering information through literature

Extensive literature review was carried out to derive the historical distribution of the priority species of the Ganga River and its tributaries. The distribution maps of these species were prepared to identify the changes in their range from historical to present day.

A journey with Ganga

A Rapid Biodiversity Assessment of the Ganga River between Devprayag to Farraka Barrage covering a total distance of 2025 km was carried out during the summer of 2017. The survey strengthened the information on the status and distribution of the priority species in Ganga River.

According to literature the Gangetic river dolphins have become locally extinct from small tributaries due to reduced flow and are now restricted to large tributaries of Ganga River.

The rapid biodiversity assessment revealed that Gangetic river dolphins are present throughout the Ganga River from downstream Bijnor to Farakka Barrage. Larger congregations were observed in deep water pools (>3 m), particularly from downstream of Kanpur. Optimal habitats are present in the surveyed stretch, however barrages, fishing through gill nets, overfishing and insufficient water restrict their distribution.

NT GANGA

STATUS OF AQUALIFE OF GANGA

82%

decline in population of
Gangetic river dolphin
in Ganga River and its
tributaries during the
last 140 years



Otters once distributed in upper mountainous reaches of Ganga River, lower Gangetic plain and coasts, are now restricted to the Protected Areas and undisturbed areas along the Ganga River.

During the rapid biodiversity assessment indirect and direct signs of otter presence were found at undisturbed stretches of Ganga River with least human interference, dense vegetation cover and abundant prey-base; and in Protected Areas such as Vikramshilla Gangetic Dolphin Sanctuary.



The 13 species of turtles, reported from Ganga River are distributed throughout the stretch according to their habitat requirements. Once abundant, populations of most larger species have now declined or locally extirpated due to hunting, illegal trade, habitat loss and entanglement in fishing gears. Various in-situ and ex-situ efforts to restore populations of these species are ongoing.

Turtles were encountered throughout the survey stretch of the Ganga River. Presence of hatchlings and juveniles of some of the encountered species indicate growing populations of those species.





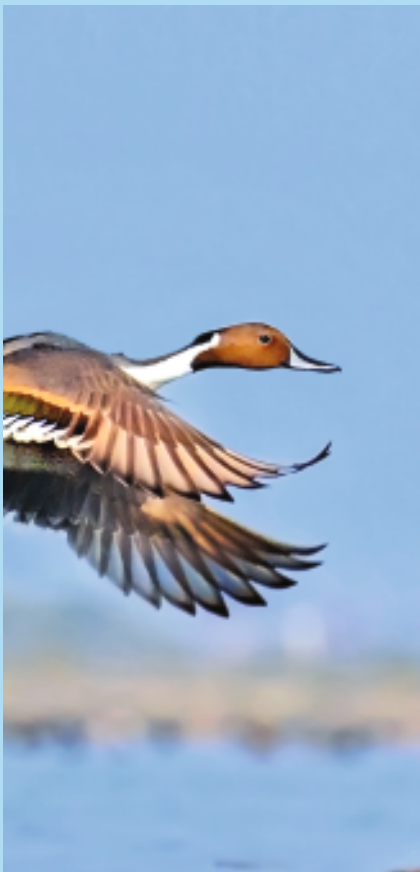
Historically, the generalist Muggers were widely distributed in the Ganga River and its tributaries. The population has now declined due to illegal hunting and habitat loss.

Secondary evidence of species presence and direct sighting during rapid assessment suggest the species has a patchy distribution in the Ganga River due to human-induced habitat fragmentation.



Historically, Gharials were restricted to the perennial tributaries of the Ganga River. The species has now been extirpated from most of its habitat due to illegal poaching and habitat loss.

During the rapid assessment Gharials were encountered at undisturbed stretch of the Ganga River in the upper Gangetic plain and at Hastinapur Wildlife Sanctuary.



The habitat variability in Ganga River and its wetlands provided suitable wintering grounds for migratory waterbirds and also sustain resident breeding birds.

DURING THE RAPID BIODIVERSITY ASSESSMENT A TOTAL OF 106 SPECIES OF WATERBIRDS WERE RECORDED BELONGING TO 36 FAMILIES.

WII has discovered new nesting sites for Indian Skimmer (*Rynchops albicollis*), an island nesting bird in the Ganga River.



NESTING COLONIES OF INDIAN SKIMMERS WERE REPORTED FOR THE FIRST TIME FROM THE GANGA RIVER.

FIRST STEP TOWARDS DERIVING RELATIONSHIPS BETWEEN RIVER CONDITIONS AND OCCURRENCE OF MAJOR SPECIES

The biodiversity profiling and habitat assessment for aquatic vertebrate and invertebrate fauna of Ganga River is underway.

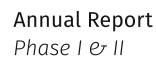
Status of various environmental factors such as water depth, river bank characteristics and anthropogenic activities were observed along the Ganga River from Devprayag to Farraka Barrage.



HABITAT

The physical characteristics shorelines and banks of the Ganga River provide lateral connectivity and terrestrial habitat for crocodiles, turtles and waterbirds for their various life history stages like nesting, basking and so on. The habitat survey from Bijnor to Farraka revealed that most of the banks were sandy, followed by clay and loam.





43.5% of the survey stretch was shallow with < 2 m depth.

of the survey stretch was shallow with < 2 m depth.

of the stretch was 2-5 m in depth.

of the stretch was > 5 m in depth.



BIODIVERSITY OF CANALS

Species Sign Survey was conducted in the Lower Ganga Canal and the Parallel Lower Ganga Canal, Narora, Uttar Pradesh.

**9 SPECIES OF TURTLE,
65 SPECIES OF RIVER
AND RIVER ASSOCIATED
BIRDS, 2 CROCODILIAN
SPECIES WERE
ENCOUNTERED.**





ANTHROPOGENIC DISTURBANCES

The sandy and loamy banks of the Ganga River are utilized as basking site by turtles and crocodilians and are potential nesting habitats for these animals. These habitats, along with mid-river islands are also utilized by resident breeding birds of the Ganga River for nesting and foraging.

More than 65% of Gangetic river dolphins were encountered between river depths of 3-10 m. No dolphins were observed below 3 m depth.



ONLY 1/4TH OF THE SURVEY STRETCH OF THE GANGA RIVER WAS FREE OF ANTHROPOGENIC ACTIVITIES. THE ENTIRE GANGA RIVER WAS DOMINATED BY

38%
fishing
activities

19%
built-up
area

16%
agriculture

13%
cremation

09%
mining
activities

04%
religious and
daily ablutions



DATABASE ESSENTIALS

Advanced database
coverage for research

A database management framework for spatial and non-spatial data collected from various surveys and secondary literature was established through PostgreSQL software.

The database is accessible in web format for visualization and monitoring through WII Intranet.

BUILDING COMMUNICATION & NETWORKS

... through digital platform

Webpage on the NMCG-WII's project "Biodiversity conservation and Ganga Rejuvenation" was launched (URL Link:<http://www.wii.gov.in/nmcg/national-mission-for-clean-ganga>). The webpage is a part of WII website and is widely accessible. Apart from this, web based informative pages have also been created on social media. These web portals are enhancing people's perception about the significance of Ganga River and educating them about its biodiversity and the issues related to its biodiversity loss.

BUILDING TRUST, BUILDING BRIDGES

Stakeholder's participation in Ganga aqualife conservation



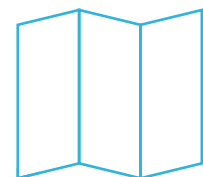
Stakeholder consultation meetings were carried out with the State Forest Departments, local governing bodies, educational institutions such as IIT Kanpur, Banaras Hindu University, Narora Atomic Power Station, and local NGOs held with the view to bring all on a common platform for conservation and restoration of biodiversity of Ganga River.

READ, LEARN AND SHOW THE WAY

Spreading awareness through print media

For dissemination of information on aquatic biodiversity of the Ganga River, their conservation status and threats, brochures, posters and booklets under the "Vibrant Ganga Series" on fish, amphibians, turtles, crocodiles, water birds and aquatic mammals have been published in Hindi and English.

Wings of Ganga: Series 1, Glimpses of Ganga: Series 1 provide scientific information on species taxonomy, conservation status, distribution, description, habitat, reproduction, major threats and distribution maps for 30 birds and 13 key aquatic species of the Ganga River, respectively.



SENSITIZING TODAY'S GENERATION



CAPACITY BUILDING OF FOREST DEPARTMENT AND OTHER STAKEHOLDERS

TRAINING OF TRAINERS

Capacity building workshop for the 25 Project personnel from WII was conducted with hands-on training on monitoring of aquatic fauna at National Chambal Sanctuary in Madhya Pradesh.

SPEARHEAD TEAM

Spearhead teams have been established for the states of Uttar Pradesh, Jharkhand, and West Bengal. A combined state level training program for the spearhead teams will be conducted post-monsoon.

TRAINING MODULES FOR TARGET GROUPS

Training modules on the aqualife of the Ganga River and its conservation issues have been developed for different target groups. The target groups include the Policy-makers, Protected Area managers, Scientific advisors, Frontline conservation agencies, Local youth organizations, Women groups, representatives from NGO's, College/University and School students, religious leaders and groups.



With the objective of developing capacity of the State Forest Departments, and other stakeholders for monitoring of identified species of conservation significance, management planning, aquatic habitat, participatory management and conservation education, various training programmes have been conducted by WII. The trained human resource will carry forward the science-based species conservation and biodiversity restoration activities along the Ganga River.

TRAINING WORKSHOPS

Capacity building workshops on biodiversity conservation and monitoring techniques of aquatic species of the Ganga River were organized for the officials of Forest Department and other line agencies in the state of Uttar Pradesh. Around 74 personnel were trained.

Training given to enhance the skills of field veterinarians and forest department personnel in handling emergent situations pertaining to aquatic macro fauna of Ganga River in their capacities and areas of jurisdiction.

Around 268 stakeholders comprising of Veterinarians, representatives of Panchayati Raj Institutions, Forest Officials, Local communities were imparted training on Participatory Management and Biodiversity Conservation.



**8 TRAINING
WORKSHOPS, 14
SENSITIZATION
WORKSHOPS HELD.**

**1021 PARTICIPANTS
TRAINED AND
SENSITIZED FROM
DIFFERENT TARGET
GROUPS**



ENHANCING SKILLS AND KNOWLEDGE OF YOUTH



174 students from Colleges, Universities and local communities of upper Ganga River basin (Uttarakhand) were trained by the faculty members and researchers of WII, on tools and techniques of biodiversity assessment of river and wetland ecosystems and socio-economic assessment.



TILL DATE 480 SCHOOL CHILDREN HAVE BEEN REACHED FOR SENSITIZATION ON THE BIODIVERSITY OF THE GANGA RIVER AND THE CONSERVATION ISSUES THEREIN, IN THE STATE OF UTTARKHAND AND UTTAR PRADESH.

VOLUNTEERS FOR GANGA AQUALIFE CONSERVATION

30 Volunteers were identified through various training programmes, to carry forward the different activities of Conservation of Ganga Aqualife and its habitat in consultation with respective State Forest Departments, local Panchayat and other stakeholders. Few of them are deployed at field stations to assist the project team.





ESTABLISHMENT OF RESCUE AND REHABILITATION CENTRES

PARTNERSHIP MODELS IN WILDLIFE RESCUE & REHABILITATION

TWO DISTINCTIVE APPROACHES

WII undertook an assessment of the existing facilities at Sarnath Kachhua Punarvas Kendra and Narora Turtle Rescue Centre and is developing them into standard models for “confiscation-veterinary care-husbandry-release/rehabilitation” operations. Two novel partnership models in animal 'Rescue and Rehabilitation' with unique characteristics are introduced through this project.



न्यूक्लियर पावर कॉर्पोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उपक्रम)
NUCLEAR POWER CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)



Rescue and subsequent rehabilitation of the individuals of conservation dependent species is an effective tool to address the declining populations due to anthropogenic activities. Effective 'rescue and rehabilitation' operations are an outcome of a team effort of various stakeholders based on knowledge of the species biology, preparedness, availability of requisite infrastructure and response time. WII is engaging with stakeholders towards the development of strategies and protocols for rescue and rehabilitation of priority species of the Ganga River with focus on species restoration and protection of their source populations. In this regard WII identified two existing facilities at Narora and Sarnath to establish rescue and rehabilitation centre for higher aquatic vertebrates of Ganga River. These centres will spearhead rescue and rehabilitation operations in the upper and middle Ganga River basin.

GANGA AQUALIFE MONITORING AND REHABILITATION CENTRE, NARORA

ASSOCIATING A PUBLIC SECTOR ENTERPRISE IN THE FRONTLINE OF BIODIVERSITY CONSERVATION THROUGH ACTIVE INVOLVEMENT IN KNOWLEDGE, INFRASTRUCTURE AND FISCAL SHARING.

The Ganga Aqualife Monitoring and Rehabilitation Centre is established at Narora in collaboration with Narora Atomic Power Station (NAPS), a plant under Nuclear Power Corporation of India Limited (NPCIL), under the administrative control of the Department of Atomic Energy, and Forest Department, Government of Uttar Pradesh.

The MoU signed between NPCIL and WII is one of its kind; an example of trans-disciplinary biodiversity conservation initiative, never attempted earlier in the country.



TURTLE RESCUE AND REHABILITATION CENTRE, SARNATH

The Turtle Rescue and Rehabilitation Centre is established at Kachhua Punarvas Kendra Sarnath in collaboration with Forest Department, Government of Uttar Pradesh.

The Centre was also known for turtle breeding program and continues to be a part of 'grow and release' program for turtle species.



भारतीय वन्यजीव संस्थान
Wildlife Institute of India



SCIENCE-BASED INFRASTRUCTURE DEVELOPMENT

The infrastructure in the Rescue and Rehabilitation Centres have been established in terms of animal housing, husbandry, veterinary care and safe-keeping of rescued animals.

Plantation of shrubs, such as *Pongamia pinnata* inside housing and turtle-hide were done as 'Summer care' protocol.

**BIO-FILTRATION UNITS
CONSTRUCTED AND ARE
FULLY OPERATIONAL TO
CLEAN WATER IN RESCUE
PONDS AT NARORA**

**THE SCIENCE-BASED
HUSBANDRY AND
VETERINARY CARE
ENSURED VERY LOW
DEATH RATE AMONG
CAPTIVE TURTLES IN
THE TWO CENTRES.**

EX-SITU CONSERVATION

Incubation room cum hatchery facility has been upgraded and renovated at the Turtle Rescue and Rehabilitation Centre, Sarnath. 1150 eggs of Three-striped roofed turtle (*Batagur dhongoka*) were incubated in the hatchery and the hatchlings are kept under continuous monitoring and veterinary care.

High hatching success was achieved by regulating and maintaining ambient and substrate temperature and moisture.



CAPACITY ENHANCEMENT: SKILL ENHANCEMENT OF VETERINARIANS, OFFICIALS OF STATE FOREST DEPARTMENTS AND OTHER LINE AGENCIES

116 personnel including representatives from officials from State Forest Department, doctors from State Veterinary Department, officials of Police Department and District Administrators at Bulandshahar and Varanasi were trained to handle the injured and stressed aqualife of Ganga River.



RESCUE AND REHABILITATION OPERATIONS

A big step towards species restoration

2478 turtles were rescued at Sarnath and later released in Turtle Wildlife Sanctuary, Varanasi.

158 individuals of turtles belonging to 9 species, 15 fish species and one Mugger individual were rescued and released upstream of Narora barrage, during rescue and release operation carried out in Lower Parallel Ganga Canal, Narora in cooperation with the Uttar Pradesh Forest Department.



REVIEW AND MONITORING BY NMCG

During the Ganga Nirikshan Yatra, Hon'ble Minister, MoWR, RD & GR, Shushri Uma Bharti, visited the Rescue and Rehabilitation Centre at Narora and highly appreciated the functions and operations of the Centre. She suggested creation of more such centres.

She named two Indian Spotted Pond Turtle (*Geoclemys hamiltonii*) as "Ashok" and "Raja" while promoting biodiversity conservation in the Ganga River.



ACCOUNTS PHASE I

STATEMENT OF GROSS EXPENDITURE COMPONENT-WISE (AA&ES)

FOR THE PERIOD 01-07-2016 TO 30-06-2017

(All amounts in Indian rupees)

Name of Component	Heads of Expenditure						TOTAL
	Manpower	Operational	Travel	Equipment	Contingency/ Others	Institutional Charges	
Component-1 (Establishment of Ganga Aquatic Conservation Monitoring Centre)	24,33,367.00	4,83,767.00	4,90,946.00	19,38,715.00	4,06,256.00	-	57,53,051.00
Component-3 (Capacity Building of Forest Department and Other Stakeholders)	1,41,868.00	5,88,243.00	1,97,159.00	-	-	-	9,27,270.00
Component-4 (Establishment of Rescue and Rehabilitation Programme)	6,78,841.00	2,56,627.00	10,46,577.00	7,05,814.00	3,05,069.00	-	29,92,928.00
All components	-	-	-	-	-	28,33,560.00	28,33,560.00
TOTAL in Rs.	32,54,076.00	13,28,637.00	17,34,682.00	26,44,529.00	7,11,325.00	28,33,560.00	1,25,06,809.00

STATEMENT OF OUTSTANDING ADVANCES AS ON 30.06.2017 COMPONENT-WISE

FOR THE PERIOD 01-07-2016 TO 30-06-2017

(All amounts in Indian rupees)

Name of Component	Forest Advance	Tour Advance	TOTAL
Component-1 (Establishment of Ganga Aquatic Conservation Monitoring Centre)	1,98,500.00	1,10,000.00	3,08,500.00
Component-3 (Capacity Building of Forest Department and Other Stakeholders)	1,00,000.00	-	1,00,000.00
Component-4 (Establishment of Rescue and Rehabilitation Programme)	2,00,000.00	40,000.00	2,40,000.00
TOTAL in Rs.	4,98,500.00	1,50,000.00	6,48,500.00

STATEMENT OF BUDGETTED EXPENDITURE VS. ACTUAL EXPENDITURE

FOR THE PERIOD 01-07-2016 TO 30-06-2017

(All amounts in Indian rupees)

Component 1	S.NO	Budget Head	Total Budget Year 1	Expenditure Year 1	Balance/ Committed	Total Budget Allocation Year 2	Total Committed for Year 2	Amount to be released by NMCG for year 2
			(1)	(2)	3=(1-2)	(4)	5=(3+4)	6
C-1 Establishment of ganga aquatic Conservation Monitoring Centre (GACMC)	1	Manpower	43,34,400.00	24,33,367.00	19,01,033.00	47,67,840.00	66,68,873.00	47,67,840.00
	2	Equipment	20,00,000.00	19,38,715.00	61,285.00	10,00,000.00	10,61,285.00	10,00,000.00
	3	Operational	30,00,000.00	4,83,767.00	25,16,233.00	20,00,000.00	45,16,233.00	20,00,000.00
	4	Travel & field work	5,00,000.00	4,90,946.00	9,054.00	10,00,000.00	10,09,054.00	10,00,000.00
	5	Contingency	5,00,000.00	4,06,256.00	93,744.00	5,00,000.00	5,93,744.00	5,00,000.00
		Total in Rs.	1,03,34,400.00	57,53,051.00	45,81,349.00	92,67,840.00	1,38,49,189.00	92,67,840.00
		Less: Forest Advance			1,98,500.00	-	1,98,500.00	-
		Less: Tour Advance			1,10,000.00	-	1,10,000.00	-
		TOTAL in Rs. (A)			42,72,849.00	92,67,840.00	1,35,40,689.00	92,67,840.00

Component 3	S.NO	Budget Head	Total Budget Year 1	Expenditure Year 1	Balance/ Committed	Total Budget Allocation Year 2	Total Committed for Year 2	Amount to be released by NMCG for year 2
			(1)	(2)	3=(1-2)	(4)	5=(3+4)	6
C-3 Capacity Building of Forest Departments and Stakeholders	1	Manpower	9,26,400.00	1,41,868.00	7,84,532.00	10,19,040.00	18,03,572.00	10,19,040.00
	2	Operational	40,00,000.00	5,88,243.00	34,11,757.00	35,00,000.00	69,11,757.00	35,00,000.00
	3	TA & DA for PIs & project personnel	10,00,000.00	1,97,159.00	8,02,841.00	10,00,000.00	18,02,841.00	10,00,000.00
		Total in Rs.	59,26,400.00	9,27,270.00	49,99,130.00	55,19,040.00	1,05,18,170.00	55,19,040.00
		Less: Forest Advance			1,00,000.00	-	1,00,000.00	
		Less: Tour Advance				-	-	-
		TOTAL in Rs. (B)			48,99,130.00	55,19,040.00	1,04,18,170.00	55,19,040.00



STATEMENT OF BUDGETTED EXPENDITURE VS. ACTUAL EXPENDITURE

FOR THE PERIOD 01-07-2016 TO 30-06-2017

(All amounts in Indian rupees)

Component 4	S.NO	Budget Head	Total Budget Year 1	Expenditure Year 1	Balance/ Committed	Total Budget Allocation Year 2	Total Committed for year 2	Amount to be released by NMCG for year 2
			(1)	(2)	3=(1-2)	(4)	5=(3+4)	6
C-4 Establishment of Rescue and Rehabilitation Programme	1	Manpower	32,04,800.00	6,78,841.00	25,25,959.00	35,55,080.00	60,81,039.00	35,55,080.00
	2	Equipment	7,20,000.00	7,05,814.00	14,186.00	1,00,000.00	1,14,186.00	1,00,000.00
	3	Operational	65,00,000.00	2,56,627.00	62,43,373.00	15,00,000.00	77,43,373.00	15,00,000.00
	4	Travel	10,00,000.00	10,46,577.00	(46,577.00)	10,00,000.00	9,53,423.00	10,00,000.00
	5	Others	6,50,000.00	3,05,069.00	3,44,931.00	3,50,000.00	6,94,931.00	3,50,000.00
		Total in Rs.	1,20,74,800.00	29,92,928.00	90,81,872.00	65,05,080.00	1,55,86,952.00	65,05,080.00
		Less:			2,00,000.00	-	2,00,000.00	-
		Forest Advance						
		Less:			40,000.00	-	40,000.00	-
		Tour Advance						
		Total in Rs. (C)			88,41,872.00	65,05,080.00	1,53,46,952.00	65,05,080.00
		Institutional charges (D)	28,33,560.00	28,33,560.00	-	21,29,196.00	21,29,196.00	21,29,196.00
		Add : Bank Interest till date			6,40,023.00	-	6,40,023.00	-
		TOTAL in Rs. (A+B+C+D)			1,86,53,874.00	1,91,62,764.00	3,78,16,638.00	2,34,21,156.00

BALANCE SHEET AS ON 30TH JUNE, 2017

FOR THE PERIOD 01-07-2016 TO 30-06-2017

(All amounts in Indian rupees)

Particulars	Schedule	Amount As on 30.06.2017
Liabilities		
Grant Fund	A	1,86,62,351.00
Fixed Asset Capital Fund	B	26,44,529.00
General Fund	C	(9,35,404.00)
Total in Rs.		2,03,71,476.00
Assets		
Gross Fixed Assets	D	26,44,529.00
Less : Accumulated Depreciation		15,75,427.00
Net Fixed Assets		10,69,102.00
Current Assets, Loans and Advances	E	1,93,02,374.00
TOTAL in Rs.		2,03,71,476.00

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDING 30TH JUNE, 2017

For the period 01-07-2016 to 30-06-2017

(All amounts in Indian rupees)

Particulars	Amount From 01.07.2016 to 30.06.2017	
INCOME		
By Grant in Aid	98,62,280.00	
By Interest Received	6,40,023.00	
Total in Rs. (A)	1,05,02,303.00	
EXPENDITURE		
Component-1 (Establishment of Ganga Aquatic Conservation Monitoring Centre)		
To Manpower	24,33,367.00	
To Operational Expenses	4,83,767.00	
To Travel	4,90,946.00	
To Contingency	4,06,256.00	
Component-3 (Capacity Building of Forest Department and Other Stakeholders)		
To Manpower	1,41,868.00	
To Operational Expenses	5,88,243.00	
To Travel	1,97,159.00	
Component-4 (Establishment of Rescue and Rehabilitation Programme)		
To Manpower	6,78,841.00	
To Operational Expenses	2,56,627.00	
To Travel	10,46,577.00	
To Others	3,05,069.00	
	-	
To Institutional Charges	28,33,560.00	
To Depreciation	15,75,427.00	
Total in Rs. (B)	1,14,37,707.00	
Excess of Income Over Expenditure (A-B)	(9,35,404.00)	
Transfer to General Fund		



RECEIPT AND PAYMENT A/C FOR THE YEAR ENDING 30TH JUNE, 2017

For the period 01-07-2016 to 30-06-2017

(All amounts in Indian rupees)

Particulars	Amount From 01.07.2016 to 30.06.2017
RECEIPTS	
Balances as on 01.07.2016	
UBI Saving A/c No. 518502010055408	-
Grant Received	3,11,69,160.00
Interest Received	6,40,023.00
TOTAL (A) in Rs..	3,18,09,183.00
PAYMENTS	
Expenditure from Grant	
Component-1 (Establishment of Ganga Aquatic Conservation Monitoring Centre)	
Manpower	24,33,367.00
Equipment	19,38,715.00
Operational	4,83,767.00
Travel & field work	4,90,946.00
Contingency	4,06,256.00
Advances:	
Forest Advance	1,98,500.00
Tour Advance	1,10,000.00
Component-3 (Capacity Building of Forest Department and Other Stakeholders)	
Manpower	1,41,868.00
Operational	5,88,243.00
Travel	1,97,159.00
Advances:	
Forest Advance	1,00,000.00
Tour Advance	
Component-4 (Establishment of Rescue and Rehabilitation Programme)	
Manpower	6,78,841.00
Equipment	7,05,814.00
Operational	2,56,627.00
Travel	10,46,577.00
Others	3,05,069.00
	-
Advances:	
Forest Advance	2,00,000.00
Tour Advance	40,000.00
Institutional Charges	28,33,560.00
TOTAL (B) in Rs..	1,31,55,309.00
By Balance (A-B) as on 30th June, 2017	
Cash at Bank	
UBI Saving A/c No. 518502010055408(A-B)	1,86,53,874.00

SCHEDULE FORMING PART OF BALANCE SHEET AS ON 30TH JUNE, 2017 SCHEDULE 'A'- GRANT FUND

For the period 01-07-2016 to 30-06-2017

(All amounts in Indian rupees)

Particulars	Amount From 01.07.2016 to 30.06.2017
Opening Balance	-
Grant In Aid	
Add: Grants received during the year	3,11,69,160.00
Less: Transfer to Income and Expenditure Account	98,62,280.00
Less: Transfer to Fixed Asset Capital Fund	26,44,529.00
TOTAL in Rs.	1,86,62,351.00

SCHEDULE 'B'- FIXED ASSET CAPITAL FUND

For the period 01-07-2016 to 30-06-2017

(All amounts in Indian rupees)

Particulars	Amount From 01.07.2016 to 30.06.2017
Opening Balance	-
Grant In Aid	
Add: Transfer From Grant Fund Account	26,44,529.00
TOTAL in Rs.	26,44,529.00

SCHEDULE 'C' - GENERAL FUND

For the period 01-07-2016 to 30-06-2017

(All amounts in Indian rupees)

Particulars	Amount From 01.07.2016 to 30.06.2017
Opening Balance	-
Add : Transfer from Income & Expenditure Account	(9,35,404.00)
TOTAL in Rs.	(9,35,404.00)



SCHEDULE FORMING PART OF BALANCE SHEET AS ON 30TH JUNE, 2017 SCHEDULE 'D' - FIXED ASSETS & DEPRECIATION

FOR THE PERIOD 01-07-2016 TO 30-06-2017

(All amounts in Indian rupees)

S.No	Particulars	Balance as on 01.07.2016	Gross Block		Total	Rate	Depreciation For the Year	Net Block Balance as on 30.06.2017
			Addition during the year					
			Before 31.12.2016	After 31.12.2016				
	COMPUTER & PRINTERS							
	Component 1							
	Large Format Display (LFD)	-	8,92,000.00	-	8,92,000.00	60%	5,35,200.00	3,56,800.00
	Rack Mountable	-	70,443.00	-	70,443.00	60%	42,266.00	28,177.00
	UPS	-	3,41,172.00	33,060.00	3,74,232.00	60%	2,14,621.00	1,59,611.00
	Computer and related devices	-	6,02,040.00	-	6,02,040.00	60%	3,61,224.00	2,40,816.00
	Component 4							
	Information Display	-	99,199.00	-	99,199.00	60%	59,519.00	39,680.00
	Pendrive	-	-	4,575.00	4,575.00	60%	1,373.00	3,202.00
	Computer and related devices	-	6,02,040.00	-	6,02,040.00	60%	3,61,224.00	2,40,816.00
	TOTAL in Rs.	-	26,06,894.00	37,635.00	26,44,529.00		15,75,427.00	10,69,102.00

SCHEDULE 'E'- CURRENT ASSETS, LOANS AND ADVANCES

FOR THE PERIOD 01-07-2016 TO 30-06-2017

(All amounts in Indian rupees)

Particulars	Amount From 01.07.2016 to 30.06.2017
Current Assets	
1) Bank Balances with Scheduled Banks	
UBI Savings A/c No. 518502010055408	1,86,53,874.00
Loans & Advances	
Component-1 (Establishment of Ganga Aquatic Conservation Monitoring Centre)	3,08,500.00
Component-3 (Capacity Building of Forest Department and Other Stakeholders)	1,00,000.00
Component-4 (Establishment of Rescue and Rehabilitation Programme)	2,40,000.00
TOTAL in Rs.	1,93,02,374.00

SCHEDULE 'F'

NOTES TO ACCOUNTS AND SIGNIFICANT ACCOUNTING POLICIES:

(To be annexed and forming part of the Balance Sheet as on June 30, 2017)

1) SIGNIFICANT ACCOUNTING POLICIES:

i) System of Accounting:

The financial statements of the company have been prepared under the historical cost convention. These financial statements are prepared on the on cash basis of accounting, and therefore income and expenditure are recognized on Receipt basis.

ii) Revenue Recognition:

- a) Revenue is recognized on receipt basis.
- b) In case of Grant/Budget allocation received from the Government or other agencies the unutilized portion there of have been treated in the Balance Sheet as liability under the head, "Grant Funds."
- c) In case of Interest earned on the amount of Grant and depreciation charged on Fixed Assets, the same have been treated in the Balance Sheet as liability under the head General Fund.

iii) Fixed Asset

Fixed Assets are stated at cost of acquisition or construction less depreciation charged to profit and loss account. Cost is inclusive of duties, taxes, erection/commissioning and incidental expenses.

Fixed Asset Capital Fund is being created from Grant Fund Account equivalent to the amount of Fixed Asset. Both Fixed Asset & Fixed Asset Capital Fund Account are stated at Gross value of Assets.

v) Depreciation:

- a) Depreciation on Fixed Assets is charged on written down value method.
- b) The depreciation on fixed assets put to use at any time during the year is provided at rates as specified under the Income Tax Act, 1961.

2. NOTES TO ACCOUNTS

- 1. All balances of unutilized funds are carried forward to next year for utilization as per objectives of the Centre.
- 2. The heads of accounts for recurring expenditure are as per the budgeted expenditure sanctioned by the Ministry of Water Resource, River Development and Ganga Rejuvenation, Government of India.
- 3. The Grant – In – Aid received during the period 01.07.2016 to 30.06.2017 is as follows:

S.No	Details of Grant	Amount
1	From Ministry of Water Resource, River Development and Ganga Rejuvenation, Government Of India Order No. B-03/2015-16/1259/NMCG - New proposal dated 27th June , 2016	3,11,69,160/-
	TOTAL in Rs.	3,11,69,160/-

CA Rajat Aswal
ACA, Partner

Dr. S.A. Hussain
[Project Investigator]

P.K. Aggarwal
[Finance Officer]

Dr. V.B Mathur
[Director]

Date: 24/11/2017
Place: Dehradun



PLANNING AQUATIC SPECIES RESTORATION FOR THE GANGA RIVER

BIODIVERSITY PROFILING

32 representative sites, of 5 km length along the Ganga river were selected for biodiversity assessment. Assessment is being conducted at these pre-decided sites through intensive sampling, according to methodology proposed for each taxa.

At each site samples for biodiversity (vegetation, invertebrate, fish, amphibians, reptiles, birds and mammals), eco-toxicology, genetic assessment and water quality parameters are being collected. Till now, assessment has been completed for 20 sites, while for the remaining sites the process is being carried out.



PHASE II

WII has initiated the ecological assessment of the Ganga River, to derive the empirical relationships between river conditions and ecological status of the major aquatic species, which is the foremost requirement for developing the species restoration plan. In order to restore the ecological integrity of an aquatic ecosystem, it is vital to recover and restore its biodiversity value. A successful river restoration effort should be based on ecological character of a healthy river, which is a combination of its geomorphic, hydrologic and biological aspects. Wildlife Institute of India has initiated the ecological assessment of the Ganga River, to derive the empirical relationships between river conditions and ecological status of the major species. Assessments of critical elements associated with successful recovery of aqualife such as ecotoxicological research and genetic assessment are also in progress.

GENETIC STUDY

To derive the current trend in genetic variability and gene flow of the critically endangered and endangered species, permission for genetic sampling of aquatic fauna of the Ganga River has been obtained. Samples were collected and analysis is in progress.

ECOTOXICOLOGICAL RESEARCH

For assessing the concentration of the key pollutants in species of conservation significance, biological as well as water samples were collected as per international standard protocols for ecotoxicological analysis and quantification of non-biodegradable and xenophobic components.

Protocols were developed and the analysis is in progress.

Literature review and feasibility study is being done for conducting bioassays on aquatic fauna for assessing long term impacts of contaminants on aquatic fauna.

The toxicology unit at WII to spearhead the ecotoxicological study is under refurbishment.



Fish samples being collected from the markets of upper reaches of Ganga River for genetic viability analysis



COMMUNITY BASED CONSERVATION PROGRAMMES FOR SPECIES RESTORATION IN GANGA RIVER

DEVELOP LINKAGES BY REVIVING EXISTING INSTITUTIONS AND FORMING NEW ONES WITH THE SUPPORT OF PANCHAYATI RAJ INSTITUTIONS

Meetings with stakeholders at various levels have been conducted:

19	Districts
12	Blocks
111	Village Panchayats
35	Focus group discussions
256	Household interviews
255	Consultation meetings held with various stakeholders Narora - 88, Varanasi - 71 Uttarakhand- 71 Kannauj - 14 Farukkabad - 11

During meetings and workshops 2418, 1886 and 150 participants were sensitized at Narora, Varanasi and Devprayag, respectively, about the status of the biodiversity of Ganga River and their role in conservation (Figure 1 & 2).

Figure 1: Cumulative number of participants sensitized till July 2017 at Narora

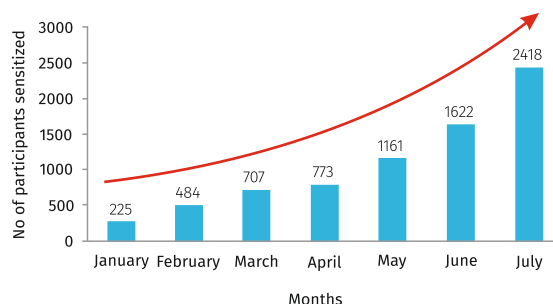
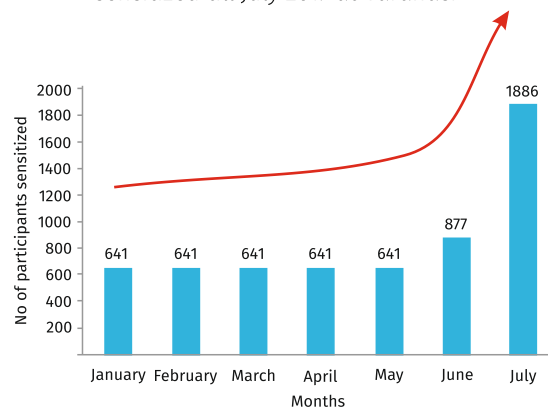


Figure 2: Cumulative number of participants sensitized till July 2017 at Varanasi



The Ganga River flows through a landscape with diverse ecological, social and economic conditions resulting in an array of stakeholders having overlapping and diverging interests and water usage scenarios. WII is addressing those overlapping and interacting mechanisms by which participation is expected to enhance river basin management by providing space for deliberation and consensus building for better quality decisions, mobilizing and developing human and social capital for better quality decisions and their implementation, and by raising the legitimacy of decisions to facilitate their implementation.

DEVELOPMENT OF PLATFORM FOR INTERACTION AND DIALOGUE AMONG STAKEHOLDERS

Meetings and workshops were held with multiple stakeholders at various level i.e. district, block and panchayat.





Table 1: Activities conducted with various stakeholders at Narora, Bulandshahr

Activities	Stakeholders	No.
Cleanliness drive cum awareness Workshops	NAPS Gram panchayat	1 1
Meetings	Administration (District & Block) Forest Department Gram panchayat Nagar Panchayat Nehru Yuva Kendra PNB RESTI Police department	8 4 25 3 1 5 1
Plantation drive	Gram panchayat	9
Workshops	Administration PNB RSETI Gram panchayat NAPS	2 10 15 2
Ganga Chaupal	Local communities and others	1
Total		88

Table 2: Activities conducted with various stakeholders at Varanasi

Activities	Stakeholders	No.
Meetings	Administration (District & Block) Forest department Gram panchayat NGO Nehru Yuva Kendra Sarnath Administration Sarnath School	8 2 11 1 4 4 3
Plantation drives	Uttar Pradesh Forest Department Gram panchayat	1 8
Training cum Workshops	Administration Gram panchayat School Nehru Yuva Kendra	6 19 3 1
Total		71

FACILITATING ESTABLISHMENT OF LOCAL LEVEL INSTITUTIONS



Facilitated establishment and activation of SHGs with collaboration with Nehru Yuva Centre (NYC) and National Rural Livelihood Mission (NRLM) at Cholaipur and Chiraigoan block of Varanasi and Dibai and Anupshahar Block of Bulandshahr.

LOCAL COMMUNITIES AND OTHER STAKEHOLDERS SENSITIZED AND TRAINED TO PARTICIPATE IN THE CONSERVATION OF GANGA RIVER



71

Awareness workshops were conducted at Varanasi, Narora, Farukabad, Kannauj and Devprayag.

111

Village level meetings for villagers were conducted at Varanasi, Narora and Devprayag.

100 KM

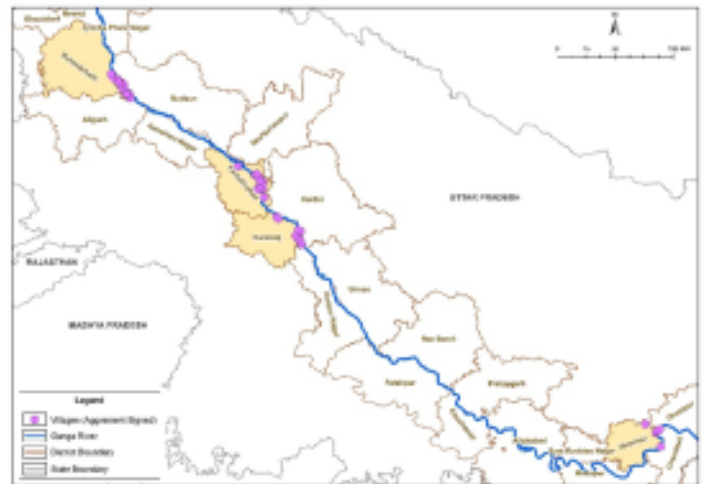
Ganga Jaiv Vividhta Padyatra was conducted covering a distance of 100 km from Devprayag to Rishikesh to sensitize the local communities about the biodiversity of Ganga River and prepare a socio-economic profile of the area for the effective implementation of the project objectives. In the preparatory phase of *padyatra* 54 consultation meetings with various stakeholders were conducted. Before the *padyatra* flagging off ceremony, an awareness workshop was conducted for the local communities. During *padyatra* 13 Gram Panchayats were surveyed and awareness workshops were conducted in each of these Gram Panchayats, which was attended by more than 300 local people. Formal interactions with Panchayat representatives (n=13) and villagers (n=43) were also conducted.



INVOLVEMENT OF RIVERSIDE COMMUNITIES AND PANCHAYATI RAJ INSTITUTIONS

Formal agreements have been signed with 54 gram panchayats:

06	Varanasi
18	Narora, Bulandshahar
11	Farukhabad
14	Kannauj
05	Hardoi



SPREADING AWARENESS

The riverside communities have been involved in wall painting and slogan writing for spreading the message of biodiversity conservation.

ESTABLISHMENT OF GANGA PRAHARI CADRE

44 Ganga prahari have been identified

14 at Varanasi

05 at Narora

25 at Devprayag

This trained cadre of Ganga prahari will carry forward the restoration of the Ganga River and conservation of its aqualife.



REVIVING LOCAL LEVEL INSTITUTIONS

In coordination with Nehru Yuva Centre, National Rural Livelihood Mission, and block level administration the existing SHGs are being revived and activated at Varanasi and Narora.

LINKAGES FOR SUSTAINABLE LIVELIHOODS



Linkages have been established with the organizations and institutions for area specific livelihood interventions through collaborations with:

- Rural Self Employment Training Institute (RSETI) of Punjab National Bank at Bulandshahar and Union Bank of India at Varanasi for livelihood training programme for youth of both the sites.
- Farmers' training Centre Varanasi for capacity building of farmers at Varanasi.
- Science for Equity Empowerment and Development (SEED) programme, of Department of Science & Technology.
- Himalayan Environmental Studies & Conservation Organization (HESCO) for capacity building of local communities mainly women in Uttarakhand and Uttar Pradesh
- National Rural Livelihood Mission (NRLM) and State Rural Livelihood Mission (SRLM) of Uttarakhand.
- World Wildlife Fund for Nature (WWF), India.

SKILL DEVELOPMENT WORKSHOPS

10

skill development workshops were organized in collaboration with RSETI, PNB Bulandshahar



PERFORMANCE EVALUATION GUIDE TO ASSESS VILLAGE INSTITUTIONS AND GANGA PRAHARI

- A format for performance evaluation has been prepared.
- Indicators and criteria to evaluate the Ganga Prahari are being developed.



NATURE INTERPRETATION AND EDUCATION FOR BIODIVERSITY CONSERVATION OF GANGA RIVER

THE TARGET AUDIENCE

The targeted audience include the fishermen, the local communities, teachers and students, visitors and tourists.

NATURE INTERPRETATION AND EDUCATION CENTRE

Nature Interpretation and Education Centre establishment has been initiated at the Turtle Rescue and Rehabilitation Centre, Sarnath. The building has been handed over to WII, and renovation work has been initiated.

Nature Interpretation is focused on the aquatic biodiversity of Ganga River.

DEVELOPMENT OF EXHIBIT MATERIAL

Information was compiled on priority species of Ganga River, issues related to their survival and fascinating facts about them. On the basis of the compiled information awareness material, viz. fact sheets and posters are being developed in both Hindi and English languages.

“Ganga ke Kacchap” on turtles of Ganga River

Factsheets for the species; Golden Mahseer, Catla, Mrigal, Hilsa, Calbasu, Rohu

Priority Fish species of Ganga River

Frogs and Toads of Ganga River

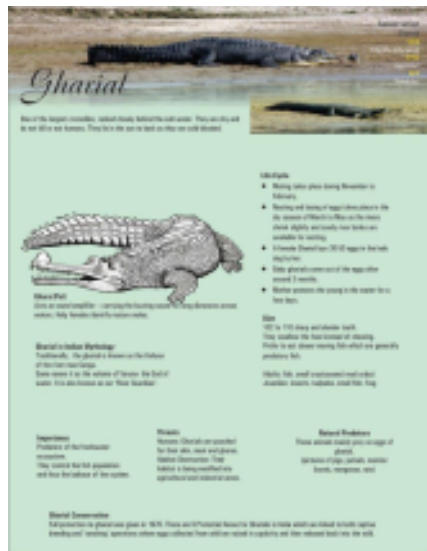
MOBILE EXHIBITION

Vehicle mounted exhibition initiated with vehicle being painted and exhibits designed.

Themes for floating exhibition on “Bajra” identified and exhibit panels designed. Process of hiring “Bajra” initiated.

Education is indispensable to changing attitude and behaviour and thus education and outreach activities were built up in the project. These activities with community involvement will help to reconnect people to the river and help them value the diverse natural resources, recreational and economic opportunities available. This will lead to support for protection of the biodiversity in the Ganga River basin and would create a network of aware community who support biodiversity conservation.

AIMING TOWARDS A LOW COST FUNCTIONAL NATURE INTERPRETATION AND EDUCATION CENTRE WITH STATE OF ART TEACHING AIDS



ACCESSIBLE TO ALL, FACILITY FOR CONDUCTING TRAINING AND CELEBRATING SPECIAL DAYS





DEVELOPMENT OF CURRICULUM BASED RESOURCE PACK AND OUTREACH MATERIAL

TEACHERS' TRAINING PROGRAM

Literature review was carried out on pollution status of the Ganga River (historical and current situation), riverine ecosystem, course of Ganga and based upon those the curriculum is being prepared.

A training manual is being prepared on the aspects of water pollution, Ganga as a riverine ecosystem, its mythology, Course of Ganga, Ganga: Then and Now, Species situated with Ganga.

Distribution maps for Gangetic River dolphin, Smooth-coated otter, Gharial and Sarus crane are prepared.

RESOURCE PACK AND OUTREACH MATERIAL

The training manual will be accompanied with

Water testing kit

Puppet Show CD

Masks for role play activities

Snake and Ladder game with riverine snakes

MOBILE EXHIBITION



A script was developed in Hindi on “Sparsh Ganga” for puppet show. Puppet characters were developed with the help of NCERT, New Delhi.

The puppet show was performed at the Patna Railway Station, where the “Science Express-Climate Action Special Train” was stationed for two days. The show was attended by 25000+ people.

On the occasion of UNESCO World Heritage Day Celebration, the “Sparsh Ganga” was performed at the Wildlife Institute of India. The show was attended by 500+ people.





ACCOUNTS PHASE II

STATEMENT OF GROSS EXPENDITURE COMPONENT-WISE (AA&ES)

(FOR THE PERIOD 24.10.2016 TO 23.10.2017)

(All amounts in Indian rupees)

Name of Component	Heads of Expenditure							Total
	Manpower	Operational	Travel	Equipment	Other (Chemicals)	Other Expenses	Institutional Charges	
Component-2 [Planning aquatic species restoration for Ganga River]	31,42,665.00	8,97,464.00	5,12,787.00	46,15,308.00	3,36,568.00	1,69,223.00	39,16,600.00	1,35,90,615.00
Component-5 [Community based conservation programmes for species restoration in Ganga River]	16,26,657.00	10,82,641.00	5,54,243.00	3,20,051.00	-	3,41,575.00	11,34,780.00	50,59,947.00
Component-6 [Nature interpretation and education for biodiversity conservation of Ganga River]	5,37,591.00	1,15,353.00	1,85,695.00	-	-	86,382.00	14,12,480.00	23,37,501.00
TOTAL in Rs.	53,06,913.00	20,95,458.00	12,52,725.00	49,35,359.00	3,36,568.00	5,97,180.00	64,63,860.00	2,09,88,063.00

STATEMENT OF OUTSTANDING ADVANCES AS ON 23.10.2017 COMPONENT-WISE

(FOR THE PERIOD 24.10.2016 TO 23.10.2017)

(All amounts in Indian rupees)

Name of Component	Forest Advance	Tour Advance	Total
Component-2 [Planning aquatic species restoration for Ganga River]	8,39,000.00	1,06,286.00	9,45,286.00
Component-5 [Community based conservation programmes for species restoration in Ganga River]	7,46,000.00	2,05,000.00	9,51,000.00
Component-6 [Nature interpretation and education for biodiversity conservation of Ganga River]	1,47,000.00	37,500.00	1,84,500.00
TOTAL in Rs.	17,32,000.00	3,48,786.00	20,80,786.00

STATEMENT OF BUDGETTED EXPENDITURE VS. ACTUAL EXPENDITURE

(FOR THE PERIOD 24.10.2016 TO 23.10.2017)

(All amounts in Indian rupees)

Component 2	S.NO	Budget Head	Total Budget Year 1	Expenditure Year 1	Balance / Committed	Total Budget Allocation for year 2 as per AA&ES	Total Committed for year 2	Amount to be released by NMCG for year 2
Component-2 [Planning aquatic species restoration for Ganga River]			1	2	3= (1-2)	4	5=(3+4)	6
	1	Manpower	1,19,36,000.00	31,42,665.00	87,93,335.00	1,31,09,600.00	2,19,02,935.00	1,31,09,600.00
	2	Equipment	1,73,30,000.00	49,51,876.00	1,23,78,124.00	38,00,000.00	1,61,78,124.00	38,00,000.00
	3	Operational	29,00,000.00	8,97,464.00	20,02,536.00	29,00,000.00	49,02,536.00	29,00,000.00
	4	Travel & field work	10,00,000.00	5,12,787.00	4,87,213.00	10,00,000.00	14,87,213.00	10,00,000.00
	5	Other expenses	60,00,000.00	1,69,223.00	58,30,777.00	15,00,000.00	73,30,777.00	15,00,000.00
	6	Institutional Charges @10%	39,16,600.00	39,16,600.00	-	22,30,960.00	22,30,960.00	22,30,960.00
	Total in Rs.		4,30,82,600.00	1,35,90,615.00	2,94,91,985.00	2,45,40,560.00	5,40,32,545.00	2,45,40,560.00
	Less: Forest Advance				8,39,000.00	-	8,39,000.00	-
	Less: Tour Advance				1,06,286.00	-	1,06,286.00	-
TOTAL in Rs. (A)				2,85,46,699.00	2,45,40,560.00	5,30,87,259.00	2,45,40,560.00	

Component 5	S.NO	Budget Head	Total Budget Year 1	Expenditure Year 1	Balance/ Committed	Total Budget Year 2	Total Committed for year 2	Amount to be released by NMCG for year 2
Component-5 [Community based conservation programmes for species restoration in Ganga River]			1	2	3= (1-2)	4	5=(3+4)	6
	1	Manpower	67,60,800.00	16,26,657.00	51,34,143.00	74,36,880.00	1,25,71,023.00	74,36,880.00
	2	Equipment	9,87,000.00	3,20,051.00	6,66,949.00	-	6,66,949.00	-
	3	Operational	25,00,000.00	10,82,641.00	14,17,359.00	35,00,000.00	49,17,359.00	35,00,000.00
	4	Travel & field work	8,00,000.00	5,54,243.00	2,45,757.00	8,00,000.00	10,45,757.00	8,00,000.00
	5	Other expenses	3,00,000.00	3,41,575.00	(41,575.00)	3,00,000.00	2,58,425.00	3,00,000.00
	6	Institutional Charges @10%	11,34,780.00	11,34,780.00	-	12,03,688.00	12,03,688.00	12,03,688.00
	Total in Rs.		1,24,82,580.00	50,59,947.00	74,22,633.00	1,32,40,568.00	2,06,63,201.00	1,32,40,568.00
	Less: Forest Advance				7,46,000.00	-	7,46,000.00	
	Less: Tour Advance				2,05,000.00	-	2,05,000.00	
	TOTAL in Rs. (B)				64,71,633.00	1,32,40,568.00	1,97,12,201.00	1,32,40,568.00



STATEMENT OF BUDGETTED EXPENDITURE VS. ACTUAL EXPENDITURE

(FOR THE PERIOD 24.10.2016 TO 23.10.2017)

(All amounts in Indian rupees)

Component 6	S.NO	Budget Head	Total Budget Year 1	Expenditure Year 1	Balance/ Committed	Total Budget for year 2	Total Committed Year 2	Amount to be released by NMCG for year 2
			1	2	3= (1-2)	4	5=(3+4)	6
Component-6 [Nature interpretation and education for biodiversity conservation of Ganga River]	1	Manpower	49,24,800.00	5,37,591.00	43,87,209.00	54,17,280.00	98,04,489.00	54,17,280.00
	2	Equipment	10,00,000.00	-	10,00,000.00	1,00,000.00	11,00,000.00	1,00,000.00
	3	Operational	75,00,000.00	1,15,353.00	73,84,647.00	65,00,000.00	1,38,84,647.00	65,00,000.00
	4	Travel	5,00,000.00	1,85,695.00	3,14,305.00	5,50,000.00	8,64,305.00	5,50,000.00
	5	Others	2,00,000.00	86,382.00	1,13,618.00	2,00,000.00	3,13,618.00	2,00,000.00
	6	Institutional Charges @10%	14,12,480.00	14,12,480.00	-	12,76,728.00	12,76,728.00	12,76,728.00
		Total in Rs.	1,55,37,280.00	23,37,501.00	1,31,99,779.00	1,40,44,008.00	2,72,43,787.00	1,40,44,008.00
		Less: Forest Advance			1,47,000.00	-	1,47,000.00	-
		Less: Tour Advance			37,500.00	-	37,500.00	-
		Total in Rs. (C)			1,30,15,279.00	1,40,44,008.00	2,70,59,287.00	1,40,44,008.00
		Add : Bank Interest received till date			20,06,628.00	-	20,06,628.00	-
		TOTAL in Rs. (A+B+C)			5,00,40,239.00	5,18,25,136.00	10,18,65,375.00	5,18,25,136.00

BALANCE SHEET AS ON 23RD OCTOBER, 2017

(FOR THE PERIOD 24.10.2016 TO 23.10.2017)

(All amounts in Indian rupees)

Particulars	Schedule	Amount
Liabilities		
Grant Fund	A	5,01,14,397.00
Fixed Asset Capital Fund	B	49,35,359.00
General Fund	C	14,78,059.00
Total in Rs.		5,65,27,815.00
Assets		
Gross Fixed Assets	D	49,35,359.00
Less : Accumulated Depreciation		5,28,569.00
Net Fixed Assets		44,06,790.00
Current Assets, Loans and Advances	E	5,21,21,025.00
TOTAL in Rs.		5,65,27,815.00

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDING 23RD OCTOBER, 2017

(FOR THE PERIOD 24.10.2016 TO 23.10.2017)

(All amounts in Indian rupees)

PARTICULARS	Amount
INCOME	
Grant Received	1,60,52,704.00
Interest Received	20,06,628.00
TOTAL in Rs. (A)	1,80,59,332.00
EXPENDITURE	
Component-2 [Planning aquatic species restoration for Ganga River]	
To Manpower	31,42,665.00
To Operational	8,97,464.00
To Travel	5,12,787.00
To Institutional Charges	39,16,600.00
To Other Expenses	1,69,223.00
To Depreciation	4,94,839.00
To Lab Equipment (Chemicals & Reagents)	3,36,568.00
Component-5 [Community based conservation programmes for species restoration in Ganga River]	
To Manpower	16,26,657.00
To Operational	10,82,641.00
To Travel	5,54,243.00
To Institutional Charges	11,34,780.00
To Other Expenses	3,41,575.00
To Depreciation	33,730.00
Component-6 [Nature interpretation and education for biodiversity conservation of Ganga River]	
To Manpower	5,37,591.00
To Operational	1,15,353.00
To Travel	1,85,695.00
To Institutional Charges	14,12,480.00
To Other Expenses	86,382.00
TOTAL in Rs. (B)	1,65,81,273.00
Excess of Income Over Expenditure (A-B) Transfer to General Fund	14,78,059.00



RECEIPT AND PAYMENT A/C FOR THE YEAR ENDING 23RD OCTOBER, 2017

(FOR THE PERIOD 24.10.2016 TO 23.10.2017)

(All amounts in Indian rupees)

Particulars	Amount
RECEIPTS	
Balances as on 01.04.2016	
UBI Saving A/c No. 518502010055526	-
Grant Received	7,11,02,460.00
Interest Received	20,06,628.00
TOTAL (A) in Rs.	7,31,09,088.00
PAYMENTS	
Component-2 [Planning aquatic species restoration for Ganga River]	
Revenue Expenditure	
To Manpower	31,42,665.00
To Operational	8,97,464.00
To Travel	5,12,787.00
To Institutional Charges	39,16,600.00
To Other Expenses	1,69,223.00
To Lab Equipment (Chemicals & Reagents)	3,36,568.00
Capital Expenditure	
Equipment	46,15,308.00
Advances:	
Forest Advance	8,39,000.00
Tour Advance	1,06,286.00
Component-5 [Community based conservation programmes for species restoration in Ganga River]	
Revenue Expenditure	
To Manpower	16,26,657.00
To Operational	10,82,641.00
To Travel	5,54,243.00
To Institutional Charges	11,34,780.00
To Other Expenses	3,41,575.00
Capital Expenditure	
Equipment	3,20,051.00
Advances:	
Forest Advance	7,46,000.00
Tour Advance	2,05,000.00
Component-6 [Nature interpretation and education for biodiversity conservation of Ganga River]	
Revenue Expenditure	
To Manpower	5,37,591.00
To Operational	1,15,353.00
To Travel	1,85,695.00
To Institutional Charges	14,12,480.00
To Other Expenses	86,382.00
Advances:	
Forest Advance	1,47,000.00
Tour Advance	37,500.00
TOTAL (B) in Rs.	2,30,68,849.00
By Balance (A-B) as on 23rd October, 2017	
Cash at Bank	
UBI Saving A/c No. 518502010055526(A-B)	5,00,40,239.00

SCHEDULE FORMING PART OF BALANCE SHEET AS ON 23RD OCTOBER, 2017

SCHEDULE 'A'- GRANT FUND

(FOR THE PERIOD 24.10.2016 TO 23.10.2017)

(All amounts in Indian rupees)

Particulars	Amount
Opening Balance	
Grant In Aid	
Add: Grants received during the year	7,11,02,460.00
Less: Transfer to Fixed Assets Capital Fund	49,35,359.00
Less: Transfer to Income and Expenditure Account	1,60,52,704.00
TOTAL in Rs.	5,01,14,397.00

SCHEDULE 'B' FIXED ASSET CAPITAL FUND

For the period 24-10-2016 to 23-10-2017

(All amounts in Indian rupees)

Particulars	Amount
(All amounts in Indian rupees)	
Particulars	Amount
Opening Balance	-
Add : Transfer from Grant Fund Account	49,35,359.00
TOTAL in Rs.	49,35,359.00

SCHEDULE 'C' -GENERAL FUND

For the period 24-10-2016 to 23-10-2017

(All amounts in Indian rupees)

Particulars	Amount
Opening Balance	-
Add : Transfer from Income & Expenditure Account	14,78,059.00
TOTAL in Rs.	14,78,059.00



SCHEDULE FORMING PART OF BALANCE SHEET AS ON 23RD OCTOBER, 2017 SCHEDULE 'D' - FIXED ASSETS & DEPRECIATION

For the period 24-10-2016 to 23-10-2017

(All amounts in Indian rupees)

S. No	Particulars	Balance as on 24.10.2016	Gross Block		Total	Rate	Depreciation for the year	Net Block Balance as on 23.10.2017
			Addition during the year					
			Before 23.04.2017	After 23.04.2017				
	Component 2							
	PLANT & MACHINERY							
1	Binoculars	-	-	1,18,308.00	1,18,308.00	15%	8,873.00	1,09,435.00
2	Deep freezer	-	-	9,45,000.00	9,45,000.00	15%	70,875.00	8,74,125.00
3	Digital Vernier Calipers	-	-	12,188.00	12,188.00	15%	914.00	11,274.00
4	Double Stage	-	-	1,06,803.00	1,06,803.00	15%	8,010.00	98,793.00
5	Flow Tracker	-	-	9,67,176.00	9,67,176.00	15%	72,538.00	8,94,638.00
6	Handheld Garmin	-	-	2,24,817.00	2,24,817.00	15%	16,861.00	2,07,956.00
7	Inflatable Boat	-	-	6,37,875.00	6,37,875.00	15%	47,841.00	5,90,034.00
8	Split AC	-	-	90,100.00	90,100.00	15%	6,758.00	83,342.00
9	Temperature Data Loggers	-	96,921.00	-	96,921.00	15%	14,538.00	82,383.00
10	YSI Multiparameter	-	-	10,46,778.00	10,46,778.00	15%	78,508.00	9,68,270.00
	COMPUTER & PRINTERS							
1	Workstation & Monitor	-	-	1,74,942.00	1,74,942.00	60%	52,483.00	1,22,459.00
2	Antivirus	-	1,94,400.00	-	1,94,400.00	60%	1,16,640.00	77,760.00
		-	2,91,321.00	43,23,987.00	46,15,308.00		4,94,839.00	41,20,469.00
	Component 5							
1	Camera	-	-	88,499.00	88,499.00	15%	6,637.00	81,862.00
2	Garmin GPS	-	-	1,45,800.00	1,45,800.00	15%	10,935.00	1,34,865.00
3	Dictation Machine	-	-	42,525.00	42,525.00	15%	3,189.00	39,336.00
	COMPUTER & PRINTERS							
1	Wireless Keyboard	-	-	1,365.00	1,365.00	60%	410.00	955.00
2	UPS	-	-	41,862.00	41,862.00	60%	12,559.00	29,303.00
		-	-	3,20,051.00	3,20,051.00		33,730.00	2,86,321.00
	TOTAL in Rs.		2,91,321.00	46,44,038.00	49,35,359.00	-	5,28,569.00	44,06,790.00

SCHEDULE 'E' - CURRENT ASSETS, LOANS AND ADVANCES

For the period 24-10-2016 to 23-10-2017

(All amounts in Indian rupees)

Particulars	Amount
Current Assets	
1) Bank Balances with Scheduled Banks UBI Savings A/c No. 518502010055526	5,00,40,239.00
Loans & Advances	
Component-2 [Planning aquatic species restoration for Ganga River]	9,45,286.00
Component-5 [Community based conservation programmes for species restoration in Ganga River]	9,51,000.00
Component-6 [Nature interpretation and education for biodiversity conservation of Ganga River]	1,84,500.00
TOTAL in Rs.	5,21,21,025.00

SCHEDULE 'F'

NOTES TO ACCOUNTS AND SIGNIFICANT ACCOUNTING POLICIES:

(To be annexed and forming part of the Balance Sheet as on October 23rd, 2017)

1) **SIGNIFICANT ACCOUNTING POLICIES:**

i) **System of Accounting:**

The financial statements of the company have been prepared under the historical cost convention. These financial statements are prepared on the on cash basis of accounting, and therefore income and expenditure are recognized on Receipt basis.

ii) **Revenue Recognition:**

- Revenue is recognized on receipt basis.
- In case of Grant/Budget allocation received from the Government or other agencies the unutilized portion thereof have been treated in the Balance Sheet as liability under the head, "Grant Funds."
- In case of Interest earned on the amount of Grant and depreciation charged on Fixed Assets, the same have been treated in the Balance Sheet as liability under the head General Fund.

iii) **Fixed Asset**

Fixed Assets are stated at cost of acquisition or construction less depreciation charged to profit and loss account. Cost is inclusive of duties, taxes, erection/commissioning and incidental expenses. Fixed Asset Capital Fund is being created from Grant Fund Account equivalent to the amount of Fixed Asset. Both Fixed Asset & Fixed Asset Capital Fund Account are stated at Gross value of Assets.

v) **Depreciation:**

- Depreciation on Fixed Assets is charged on written down value method.
- The depreciation on fixed assets put to use at any time during the year is provided at rates as specified under the Income Tax Act, 1961

2. **NOTES TO ACCOUNTS**

- All balances of unutilized funds are carried forward to next year for utilization as per objectives of the Centre.
- The heads of accounts for recurring expenditure are as per the budgeted expenditure sanctioned by the Ministry of Water Resource, River Development and Ganga Rejuvenation, Government of India.
- The Grant - In - Aid received during the period 24.10.2016 to 23.10.2017 is as follows:

S.No	Details of Grant	Amount
1	From Ministry of Water Resource, River Development and Ganga Rejuvenation, Government Of India Order No. B-03/2015-16/1259/NMCG - New proposal dated 27th September , 2016	7,11,02,460/-
	TOTAL in Rs.	7,11,02,460/-

CA Rajat Aswal
ACA, Partner

Dr. S.A. Hussain
[Project Investigator]

P.K. Aggarwal
[Finance Officer]

Dr. V.B Mathur
[Director]

Date: 24/11/2017
Place: Dehradun



EVENTS

WORLD HERITAGE DAY

On the occasion of UNESCO World Heritage Day Celebration, the “Sparsh Ganga” puppet show was performed at the Wildlife Institute of India.

COMMONWEALTH FORESTRY CONGRESS, 2017

WII Team participated the Commonwealth Forestry Congress, organized by Forest Research Institute (FRI), Dehradun. Exhibitions and posters about aquatic biodiversity of Ganga River were displayed to spread awareness.

WORLD TURTLE DAY

200 school children and teachers participated in the interactive seminars and drawing competitions. The children pledged for turtle conservation.

WORLD ENVIRONMENT DAY, DEHRADUN

The project activities were showcased through electronic and print media on the theme “The Vibrant Ganga” at the Forest Research Institute's exhibition titled “Van-Dhan”.

WORLD ENVIRONMENT DAY, NARORA

50 students from schools in Narora actively participated in the awareness programme organized by WII in Ganga Aqualife Monitoring and Rehabilitation Centre. The programme was graced by Sushri Uma Bharti, Hon'ble Minister of Water Resources, River Development and Ganga Rejuvenation. She planted an Ashoka tree in the Centre to commemorate the occasion.

GANGA JAIV-VIVIDHTA PADYATRA

Ganga Jaiv-Vividhta padyatra was organized for sensitization of the local communities residing on the banks of the Ganga River and also for rapid assessment of the biodiversity of the Ganga River from Devprayag to Rishikesh. The event was flagged-off from Devprayag by Padmshree Dr. Anil P. Joshi

and the culmination event was held at Rishikesh. Hon'able Vidhansabha Speaker of Uttarakhand Government Shri Prem Aggarwal, Padmshree Dr. Anil P. Joshi, Shri U.P. Singh, Director General (NMCG), Dr Sandeep Behera, Biodiversity Consultant (NMCG) felicitated the padyatris.

GANGA SWACHHTA PAKHWADA, HARIDWAR

WII Team participated in the Ganga Swachhta Pakhwada, organized in Haridwar by the Centre for Environment Education (CEE) and Divya Prem Sewa Mission (DPSM) and supported by the NMCG. Exhibitions and posters about aqualife of Ganga River were displayed to spread awareness. A “padyatra” along the Ganga was organized and adopt a Ghat campaign was launched followed by the 'Swachh Ganga' pledge.

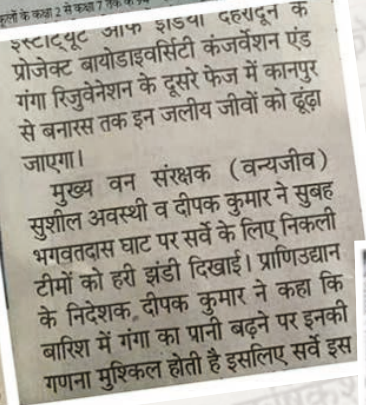
WORLD CROCODILE DAY, DEHRADUN

55 participants, including the students and faculty of different colleges from Dehradun participated in an inter-college quiz competition aimed to sensitize the students about the ecological significance of crocodiles of the Ganga River and conservation issues associated with them. The theme of the event was 'The Crocodile: Vahana of Vibrant Ganga'.

GANGA VRIKSHAROPAN SAPTAH

Plantation was carried out at 29 sites across the states of Uttarakhand and Uttar Pradesh. A total of 1755 saplings of economically important species were planted.

IN NEWS





TEAM LEADERS

Dr. V. B. Mathur & Dr. G. S. Rawat

TEAM COORDINATORS

Dr. S. A. Hussain & Dr. Ruchi Badola

THE TEAM

Component	Coordinating faculty	Co-coordinating faculty	Supporting faculty	Researchers
1. Establishment of Ganga Aqualife Conservation and Monitoring Centre	Dr. S. A. Hussain	Dr. Ruchi Badola	Dr. Gautam Talukdar	Dr. Niladri Dasgupta Dr. Shivani Barthwal Michelle Irengbam Anita Devi Aishwarya R. Chandran Ravindra Nath Tripathi Debanjan Sarkar Shatakshi Sharma
3. Capacity Building of forest department and other stakeholders	Dr. A.K. Bhardwaj	Dr. Ruchi Badola	Dr. Abhijit Das Dr. S. A. Hussain Dr. Bitapi Sinha	Dr. Sangeeta Angom Monika Sharma
4. Establishment of Rescue and Rehabilitation Centres	Dr. Suresh Kumar	Dr. Abhijit Das	Dr. S. A. Hussain Dr. S.K. Gupta Dr. Ramesh C.	Aftab Alam Usmani Dr. Animesh talukdar Narendra Mohan
Project management Unit				Dr. Rajeev Chauhan Rajni Bohra Neha Sharma Rahul Kumar Gupta
2. Planning aquatic species restoration of Ganga River	Dr. J.A. Johnson	Dr. S. A. Hussain	Dr. B.S. Adhikari Dr. V.P. Uniyal Dr. Gopi G.V. Dr. Suresh Kumar Dr. Anju Baroth Dr. Sandeep Gupta Dr. Gautam Talukdar	Goura Chandra Das Dr. Arvind Kumar Dwivedi Dr. Ajit Kumar Ruchika Sah S.K. Zeeshan Ali Kritish De Bitupan Boruah Anuja Mittal Chetan Pratap Singh Ahada Prabhaker Yadav Megha Shruti Asif Ahmed Malik

Component	Coordinating faculty	Co-coordinating faculty	Supporting faculty	Researchers
5. Community Based Conservation Programmes for Species Restoration in Ganga River	Dr. Ruchi Badola	Dr. A.K. Bhardwaj	Shri Ajay Srivastava Dr. Anju Baroth	Dr. Pariva Dobriyal Dr. Deeepika Dogra Aditi Dev Vipul Maurya Amanat Kaur Gill Ekta Sharma
6. Nature Interpretation and Education for Biodiversity Conservation of Ganga River	Dr. Bitapi Sinha	Dr. Gopi G.V.	Dr. Abhijit Das Dr. Ramesh C.	Dimpi Anil Kumar Patel Taniya Trivedi
Project management Unit				Dr. Rajeev Chauhan Rajni Bohra Neha Sharma Rahul Kumar Gupta

NMCG

National Mission
for Clean Ganga,
Ministry of Water
Resources, River
Development &
Ganga Rejuvenation

GACMC

Ganga Aqualife
Conservation
Monitoring
Centre

Wildlife Institute of India

Chandrabani,
Dehradun-248001
Uttarakhand

www.wii.gov.in/national_mission_for_clean_ganga