



भारतीय वन्यजीव संस्थान
Wildlife Institute of India

**TRAINING WORKSHOP FOR YOUTH AND NGOS ON “BIODIVERSITY MONITORING OF
INDICATOR SPECIES OF RIVER GANGA” (28TH – 30TH APRIL, 2018)**

DETAILED REPORT

The Wildlife Institute of India under the project “Biodiversity Conservation and Ganga Rejuvenation” conducted three days training workshop for Youth and NGOs on “Biodiversity Monitoring of Indicator Species of River Ganga” at Sahibganj College, Sahibganj, Jharkhand. A total of 120 participants from Sahibganj College, Badharwa College and representative member of NGO attended the workshop.

The main objective of the workshop was to develop the capacity of the Youth and local NGOs on the biodiversity of the Ganga River, importance of Aqualife conservation in the Ganga rejuvenation, different monitoring methods and techniques of rescue & rehabilitation (Annexure 1). The workshop was inaugurated through lightening of lamp by the Chief Guest Dr. Manoranjan Prasad Sinha, Vice Chancellor, S.K.M. University, Dumka, Jharkhand. The inaugural session started with the welcome of Chief Guest by Dr. S.P Yadav, Principal- Sahibganj College and Dr. Sangeeta Angom, Scientist and Training Coordinator, Wildlife Institute of India. Later on Dr. Sangeeta Angom gave a brief introduction on “Biodiversity Conservation and Ganga Rejuvenation” project and its objectives and work done so far. Then Dr. Sunil K. Choudhary gave a talked on Dolphin conservation and its issues in Vikramshila Sanctaury. Mr. Manish Tiwari, DFO, Sahibganj, Jharkhand talked on the issues related to conservation in Sahibganj district and assured their full support in future activities of Biodiversity Conservation of Ganga river. Afterwards, Dr. Manoranjan Prasad Sinha gave the keynote address about the event. He informed that conservation of biodiversity is very important for the Ganga River and ensured

full support for the project activities. He encouraged all the participants to get this opportunity of learning through this workshop. In the end of inaugural session, the participants were asked to fill pre- training assessment.

After the inaugural session, the first session started with a talk on “Monitoring of Gangetic River Dolphin” by Dr. Rashid Raza, Project Scientist, CAMPA Dolphin. He briefed about the habitat of the Gangetic River Dolphin, present status and trend of River Dolphin. He also highlighted the threats such as excessive fishing, fragmentation of river habitat, poaching for bait oil, pollution (bio-accumulation), loss of habitat availability faced by Dolphin. The methods best known for monitoring and counting techniques such as double observer technique for the Gangetic River Dolphins were explained by Mr. Subhashis Dey.

The second session started with a lecture on “Monitoring of Fish Population” by Dr. Arvind Kumar Dwivedi. He briefed on the different species of fishes present in the Ganga River, that can also serve as the indicator species. He further talked on present status and trend of key fish species of the Ganga River and their threats. Later on Mr. Bitupan Boruah explained the interesting facts about Amphibian and Reptiles, identification of toads and frogs and classification of reptilian species. He emphasized on the importance of the amphibians which is an indicator to pollution. He further added that amphibians play an important role in the monitoring of these species at night. Then he further explained the methods to identify and differentiate between venomous and non-venomous snakes. The techniques and tools for snake handling were also highlighted during his presentation. Mr. Kritish De talked on the “Monitoring of Aquatic Invertebrates”. He first explained about the importance of invertebrates in an ecosystem, role of ants, termites, butterflies and dung beetles in a forest ecosystem, also mentioned about the tiger beetle which indicates the health of an ecosystem.

The second day started with a field visit to Mukteshwar Dham Ghat where Dr. Arvind Dwivedi briefed on the monitoring of water quality and river variables by using various instruments such as PRO DSS and ECOSENSE. Mr. Bitupan Boruah explained about working and use of GPS, line transects method. Mr. Vivek Ranjan , Mr. Rajat Rastogi and Ms. Gargi explained about the migratory and resident birds of the Ganga River. They explained the Point count and Total count methods used for monitoring of Birds and further added that total count method is

best known method for counting the water fowls because they are roosting in one place. The threats such as destruction of habitat, poaching and other issues were also discussed during the visit. Dr. Rajiv Chauhan gave a brief talk on wetlands and importance of wetlands. Ms. Ekta interacted with the participants and briefed them on the importance of community participation in the Biodiversity Conservation and Ganga Rejuvenation. The session concluded with a group discussion, where the students asked their doubts and shared their views.

The third day started with a lecture by Dr. Rajeev Chauhan on the topic “Techniques of Rescue and Rehabilitation of Aquatic Species with special focus on turtles and crocodilians”. Firstly, he informed about the different species of turtles and crocodiles found in the Ganga River. Then he talked about the handling techniques and preventive measures to be undertaken for safe rescue and rehabilitation of turtles and crocodiles. He also discussed about project progress and showed some glimpses of the centres adopted by the Wildlife Institute of India i.e. Ganga Aqualife Rescue and Rehabilitation Centre, Narora, NAPS Township and Ganga Aqualife Rescue and Rehabilitation Centre, Sarnath, Varanasi and the up-gradation done by the WII team in both the centre.

After the lecture, for the team building activity the participants were divided into 5 groups and a box was filled with miscellaneous objects. Each group has to select one group leader. Then the first and second teams were called one by one and by shaken the box the participants were asked to list down the items present in the box based on the sound. Thirds and fourth teams were asked to feel the items present in the box by touching and make a list of it. Fifth group was shown the items inside the box and were asked to make a list. The list of items submitted by each group leader from all the five groups were then collected and compared. The result showed that fifth group fared the best as they could name most of the items inside it, and was followed by the third, fourth group and first, second group. The inference of the group activity was explained by Ms. Ekta Sharma where she mentioned the importance of participatory management, approaches and interventions required to mobilize community for the conservation activities. The fifth team fared the activity as they were shown all the items, explaining the team that are present on the ground level are aware of the situation and the information dies down during its passing in the hierarchical order. She further

explained that there should be proper coordination in all the level. After the technical session, the certificate distribution was done by acting Principal Dr. B.D. Dwari, Head of Physics Department, Ms. Shashi Jaijodiya, President, Akhil Bhartiya Marwadi Mahila Sammelan and Dr. Rajiv Chauhan, Conservation Officer, Wildlife Institute of India.

PROGRAMME SCHEDULE

28th April 2018	Technical session I: Ecological Monitoring	Resource persons
09:00-09:20	Registration and Pre-Training assessment	Ms. Monika Mehralu, Ekta Sharma and Ms. Monika Sharma
09:20-09:30	Welcome address	Dr. Sangeeta Angom
09:30-10:00	Keynote Address	Dr. Manoranjan Prasad Sinha Vice Chancellor S.K.M. University, Dumka Jharkhand
10:00- 10:30	Introduction to the NMCG-WII project “Biodiversity Conservation and Ganga Rejuvenation”	Dr. Sangeeta angom
10:30-11:30	Techniques of Rescue and rehabilitation of Aquatic species (Crocodile and turtles)	Dr. Rajeev Chauhan
11:30 – 12:00	Ecology of Gangetic River Dolphin	Dr. Sunil Chaudhary
12:00-13:00	Monitoring of Gangetic River Dolphin	Dr. Rashid Raza and Mr. Shubashis Dey
13:00-13:30	Monitoring of Fish Population	Dr. Arvind Kumar Dwivedi
13:30-14:30	Lunch	
14:30-15:30	Monitoring of Amphibians and Snakes	Mr. Bitupan Boruah
15:30-16:00	Monitoring of aquatic Invertebrates	Mr. Kritish De
16:00-16:30	Tea	
16:30-17:00	Biological Sample collection and Genetic Monitoring	Dr. Sangeeta Angom
17:00-17:30	Group discussion and interactions with the participants	
29th April 2018		
Technical Session II: Field visit to Ganga Ghat, Sahibganj		
08:00-11:00	Monitoring of Water Quality and River variables	Dr. Arvind Kumar Dwivedi
11:00-13:00	Field Survey Techniques for Aquatic species of Ganga River (Turtles, Dolphins, Fishes, Birds etc.)	Dr. Rashid Raza , Dr. Rajeev Chauhan, Mr.

		Bitupan Baruah, Mr. Kritish De, Mr. Jyoti, Dr. Sangeeta Angom, Ms. Monika Sharma and Ms. Monika Mehralu
13:00-14:30	Lunch	
14:30 onwards	Group Discussion	
30 th April 2018		
Technical Session III: Participatory Management		
10:00-11:00	Community Participation in Conservation of Ganga River: Ganga Prahari initiatives	Dr. Deepika Dogra
11:00-11:30	Tea	
11:30-13:00	Team Building of “Biodiversity Conservation and Ganga Rejuvenation”	Dr. Deepika Dogra, Dr. Sangeeta Angom, Ms. Monika Mehralu, Ms. Ekta Sharma
13:00-14:00	Lunch	
14:00-15:00	Post-Training Assessment and Feedback	Dr. Sangeeta Angom, Ms. Monika Sharma and Ms. Monika Mehralu
15:00-16:00	Distribution of Certificates	Dr. Sangeeta Angom
16:00-16:15	Vote of Thanks	Ms. Monika Sharma

PHOTO GALLERY





MEDIA COVERAGE

दैनिक भास्कर

संथाल

जैव विविधता व गंगा संरक्षण को लेकर छात्रों को दिया प्रशिक्षण

त्रिदिवसीय कार्यशाला के दूसरे दिन गंगा में पाए जाने वाले जीव जंतु की पाई जानकारी

भरतपुर न्यून | साहेबगंज

साहेबगंज महाविद्यालय में भारतीय वन्य जीव संस्थान, भारत सरकार द्वारा जैव विविधता एवं गंगा संरक्षण पर आयोजित कार्यशाला के दूसरे दिन रविवार को फील्ड विजिट कर स्थलीय प्रशिक्षण दिया गया। गंगा किनारे स्थित गंगा घाटों पर छात्रों को लेकर जाकर इसकी जानकारी दी गई। साहेबगंज महाविद्यालय साहेबगंज एवम बीएस के कॉलेज बड़हरवा के 70 से अधिक छात्रों को गंगा नदी के किनारे एवं गंगा नदी के अंदर पक्षियों तथा जलीय जीवों के साथ गंगा जल की गुणवत्ता सही रखने को लेकर संस्थान के वैज्ञानिकों द्वारा उपकरणों के माध्यम से जांच कर छात्रों को प्रशिक्षण दिया गया। वैज्ञानिकों ने गंगा के तटीय क्षेत्र के आम पास पाए जाने वाले पक्षियों के बारे में विस्तार से बताया। वन्य जीव संस्थान के वैज्ञानिकों ने छात्रों को बताया कि क्लैकबलड ट्रम, एशियन ओपिनबिल गेट ईग्रेट, रेल नुंप्ता, आदि वन्य जीव प्रजाति विलुप्ती के कारण पर है। गंगा नदी



जैव विविधता को लेकर आयोजित कार्यशाला में शामिल प्रशिक्षणार्थी।

में पाई जाने वाली सबसे महत्वपूर्ण जलीय जीव डॉल्फिन भी विलुप्त होने वाले जलीय जीवों में एक है। डॉल्फिन गंगा की गाय काही जाती है। इसके के बारे में सूचकर जानकारी दी गई। वैज्ञानिकों ने बताया कि डॉल्फिन देख नहीं सकता पर गंध से दुश्मन से अपने को बचने का प्रयास करता है। डॉल्फिन का शिकार आम तौर पर उनके तेल जो हजार रुपए लीटर से अधिक कीमत पर

बिकते है। इसके कारण इसका अवैध शिकार किया जाता है जिसके कारण डॉल्फिन वैश्विक रूप से विलुप्त के करार पर है। ब्लैक बेल लि एंड टेरण साहेबगंज के मुखेश्वर भूम मंदिर गंगा किनारे आम पास के क्षेत्रों में पाए गए। उपकरणों के माध्यम से जैव ईक्वामीटर प्रोडियाचिल और प्रिडियाल्स एनोनिनम इत्यादि की खोज कर इसकी जानकारी दी गई। इस विशेष फील्ड विजिट में

वैज्ञानिक डॉ. रंजीत कुमार मिह, डॉ. राजीव चौहान, डॉ. रशीद रजा, एकता शर्मा, डॉ. मोनिका, बिट्टुपन, डॉक्टर अरविंद शिवेदी, क्रिस्टल डे, तथा साहेबगंज महाविद्यालय के छात्र छात्राएं अबुल कयूम, विपिन रजक, अरविंद रजक, जितेंद्र मरांडी, जयाप्रकाश, रिकू रजक, मनीषा कुमारी, गीता कुमारी, नोशी प्रवीण, अनीता, सोनम, पुनम राय, अनिता कुमारी ने हिस्सा लिया।