

Proceedings of First meeting of Core Committee, UNDP Project on Capacity Building of Indian Forest Service Officers on **'Biodiversity Conservation with Special Reference to Aquatic, Marine and Coastal Biodiversity'** on March 14, 2014 at New Delhi.

The first meeting of the Core Committee of UNDP Project on capacity building of Indian Forest Service (IFS) Officers on 'Biodiversity conservation with special reference to aquatic, marine and coastal biodiversity' was held on 14th March, 2014 at Hotel Janpath, New Delhi. List of participants who attended the meeting is annexed as Annexure-A. The meeting started with a welcome note by Ms. Anu Nagar, Associate Professor. The Chairman, Dr. Alok Saxena, Additional Director briefed about the objectives of the project and also outlined the agenda for the meeting and the expected outcomes. It was explained by him that it was essential to initiate capacity building efforts for IFS officers working in coastal States/Union Territories as they are involved in the conservation and management of coastal ecological resources like mangroves, coral reefs etc. It is envisaged in the project that there would be a 3-day module on coastal and marine biodiversity for all IFS probationers and a one or two week programme for in-service IFS officers. Following recommendations were made by the participants:

- a) It was suggested that the module should be conducted for 4 days instead of (3) three. However, considering the increasing number of forestry related subjects being covered by IGNFA and reduced period of professional training of IFS probationers at Academy, it will be difficult to spare more time for this subject. Moreover, some aspects of this subject are covered in the syllabus of other related subjects like Environment Conservation, Wildlife Management etc Therefore it was decided to begin with a 3-day module for the probationers and if it is found insufficient, the period may be increased to 4-day subsequently.
- b) Dr Y. S. Yadav suggested that the entire syllabus could be grouped in the following sub modules:
 - o Marine and Coastal Aquatic Resources
 - o Ecosystem Approaches
 - o Planning and Management

- Livelihood Issues
- Institutional Aspects

This was agreed by the members

- c) Draft of course curriculum as proposed by Dr. C.N.Pandey and Dr. K.Shivakumar was discussed and after deliberations the course curriculum as given in Annexure-B, was recommended. It was suggested that IGNFA could edit the syllabus based on the five discussed sub modules and circulate to participants for their comments.
- d) It was also proposed that an interpretation and marine center should be made with a collaborative effort with the other organizations like WII.
- e) It was recommended that relevant case studies be compiled and should be part of the corresponding theme of the curriculum.
- f) For the preparation of study material the following format was agreed upon:
 - i. Basic Text
 - ii. Interesting Facts on the relative topics
 - iii. Case studies
 - iv. Food for thought in form of Questions
 - v. Future approaches
 - vi. Further readings
- g) For the development of study material. It was decided that the following resources persons would be responsible for topics allocated to them:

S.No.	Topic	Resource Person
1.	Management and Planning	Dr. S. Shivakumar
2.	Livelihood and ecosystems	Dr. Y.S.Yadava
3.	Mangroves management	Dr. C.N.Pandey, Dr. Vasudevan
4.	Case studies on Gulf of Mannar	Shri. Amit Asthana
5.	International Laws and Institutional aspect	Dr. Alok Saxena
6.	Wetland and Coastal Management	Dr. Ritesh
7.	Marine Biodiversity and Ocean science	Dr. K. Venkataraman
8.	Editorial Team	Dr. Alok Saxena, Ms. Lianchawii, Dr. CN Pande

- h) It was decided that the proposed curriculum would be sent to all the members for their comments. If no comments are received in 3 weeks, the draft curriculum will be considered finally recommended by the Committee. Thereafter, the concerned resource persons will be requested to develop the study material as mentioned above within a period of two months. The editorial team would then compile and edit the same to give the study material a final shape, and give to IGNFA for printing.
- i) The training module for in-service IFS officers would be discussed in the next meeting.

The meeting ended with a vote of thanks to the chair and all the participants.

Annexure-A

S.No.	Name	Organization/Address	Telephone No.	E-mail id
1.	Dr. Alok Saxena	Additional Director, IGNFA	+91- 9412053119	dr_aloksaxena@rediffmail.co m
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6.	Dr. Senthil Kumar	Dr. Senthil Kumar Conservator of Forest & Chief Wildlife Warden Department of Forest and Wildlife Govt. of Puducherry, Mullaiaagam Forest Campus Cuddalore Main Road Mudaliarbed- 605004 Puducherry.	+91- 8754500374	senifs@gmail.com
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10.	Dr. R.K.Venkataraman	Director ZSI M Block New Dlipure Kolkata-700053.	+91- 9432013915	venkyzsi56@gmail.com
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Annexure-B

Curriculum for Biodiversity Conservation with Special Reference to Aquatic, Marine and Coastal Biodiversity

Course Modules

- 1.0 Marine and Coastal Aquatic Resources
 - 1.1 Understanding the Oceans
 - 1.2 The role of tidal cycles in marine ecosystems
 - 1.3 Definitions and description of coastal and marine ecosystems, mangroves, sea grass, sea weeds and coral reefs
 - 1.4 Coastal and Marine biodiversity (with special reference to marine vertebrates, fishes, reptiles mammals, and plant biodiversity like sea weeds and sea grasses).
 - 1.5 Introduction of coastal and marine protected areas
- 2.0 Ecosystem Approaches
 - 2.1 Resource inter-relatedness
 - 2.2 Various biotic and abiotic elements of ecosystems and their interrelationships
 - 2.3 Balancing needs of different economic and non-economic activities
 - 2.4 Migration of marine fauna
- 3.0 Planning and Management
 - 3.1 Challenges and prospects in management of aquatic and marine regions
 - 3.2 Managing marine protected areas and non-protected areas, including unique ecosystems like Mangroves and coral reefs.
 - 3.3 Participatory approaches (Stakeholder approach)
 - 3.4 Managing inter-sectoral conflicts
 - 3.5 Environment Impact Assessment
 - 3.6 Eco-restoration
 - 3.7 Integrated coastal zone management
 - 3.8 Coastal ecosystems and Climate change issues
 - 3.9 Introduction of marine species recovery plan
 - 3.10 Current status of coastal ecosystem management and DRR and CCA in India
- 4.0 Livelihoods
 - 4.1 Sustainable development/wise use of resources
 - 4.2 Mainstreaming biodiversity into production processes
- 5.0 Institutional Aspects
 - 5.1 Biodiversity, fisheries, conservation policies
 - 5.2 National laws covering biodiversity, fisheries, etc.
 - 5.3 International laws (binding and non-binding) concerning biodiversity, fisheries, Law of the Sea
