Wetland Conservation Program : INDIA

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Ministry Of Environment, Forest And Climate Change Government of India

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NATIONAL WETLAND ATLAS

- Updated geospatial database of wetlands a pre-requisite for wetland planning
- A national wetland inventory in the form of National Wetland Atlas prepared by Space Application Centre in 2011
- Information on wetlands across India using the latest in satellite imagery carried out with mapping at 1:50000 scale
- Wetlands up to 2.25 ha have been digitally mapped in the atlas
- 19 wetland type classification available for all States
- National Wetland Atlas available in public domain



Wetlands in India : Profile

Total area: 15.26 million hectares

Total wetlands: 757,060



Sr. No.	Wetland Category	Number of wetlands	Total wetland area	% of wetland area	Open water	
					Post- monsoon area	Pre- monsoon area
1	Inland Wetlands - Natural	45658	6623067	43.40	4100766	3115701
2	Inland Wetlands -Man-made	142812	3941832	25.83	3267602	1654170
	Total - Inland	188470	10564899	69.23	7368368	4769871
3	Coastal Wetlands - Natural	10204	3703971	24.27	930663	750339
4	Coastal Wetlands - Man-made	2829	436145	2.86	301767	281010
	Total - Coastal	13033	4140116	27.13	1232430	1031349
8	Sub-Total	201503	14705015	96.36	8600798	5801220
5	Wetlands (<2.25 ha)	555557	555557	3.64	4	-
	Total	757060	15260572	100	8600798	5801220

Area (hectares)

Source : SAC, 2011

Total Number of Ramsar Sites in India : 39

Highest number in South Asia

Total Area under Ramsar sites : 1.07 million hectares



Regulatory Framework (Policy)

Central Government notified Wetlands (Conservation and Management) Rules, 2017 superseding Rules of 2010



a significant step to conserve, manage and maintain the ecological character of the wetlands without restricting the wise use



Guidelines to help the States implement the Rules released

State Wetland Authorities constituted







Jal Shakti The water conservation program of Government of India

- Water stressed districts identified
- Water conservation/rainwater harvesting, renovation of traditional waterbodies/tanks, watershed development and intensive afforestation taken up in a mission mode in these districts
- For the first time, an integrated approach in implementation of the Ganga rejuvenation programme has been initiated and riverine wetlands conservation has been integrated in the Ganga basin(Integration of lentic – lotic water)
- Being initiated for other rivers also.

National Plan on Aquatic Ecosystems (NPCA)

- Developing policy guidelines for conservation and sustainable management of aquatic ecosystems
- Restoration of prioritized ecosystems
- Developing a national inventory, setting up information and decision support system
- Framing guidelines for formulation and implementation of integrated management plans
- Strengthening capacity of managers and stakeholders for effective management
- Strengthening implementation of international commitments





Activities undertaken under NPCA

- interception, diversion and treatment of wastewater
- shore line protection
- lake front development
- de-silting
- bioremediation
- Catchment area treatment (plantation & soil conservation
- lake beautification
- survey & demarcation
- fisheries development
- weed control
- biodiversity conservation
- Livelihood development activities
- education and awareness creation
- community participation

Rejuvenating Wetlands - The 4 pronged approach

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Brief Document

A rapid baseline data collection to determine:

-> extent of wetlands & its zone of influence

-> key biodiversity

-> ecosystem services and values

->major threats

Wetland Mitras

A citizen network to enable participation of local stakeholders in wetlands' conservation and wise use



Health Card

A monitoring mechanism designed to assess the status of wetlands and effectiveness of management

Integrated Management Plan

A management plan drawn to maintain the full range of biodiversity and ecosystem services and values of wetlands, now and into future.



Indicators used to determine Wetland Health



Indicators used to determine Threats to the Wetlands



Health and Threat Analysis

Wetland Ecosystem Health Assessment Report prepared as an outcome of

Phase 1 of 100 days programme



Wetland Health Assessment (Phase 1)



Moving on to Phase - 2

- After the success of the pilot Phase 1, Phase 2
- Scaling Up
 Phase 1 → Phase 2
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 1000
- Increase the area under better management and conservation

 Devise Integrated Management Plans in line with the actual threats of the wetland



Montreux Record

- 3 Ramsar sites in India placed in the Montreux record due to changes in ecological characters.
- Keoladeo National Park in 1990, Chilika and Loktak in 1993
- Chilika removed from MR in 2001 due to restoration of it's ecosystem.
- Process for removing the other two completed. Documentation being prepared and would be submitted shortly
- RSIS updation of all sites started.



National/Regional Centre for Wetlands

- Proposal for having a National Centre for Wetlands is underway and would come up by next year
- Specialised centres available -
- ✓ National Institute of Himalayan Environment
- ✓ National Centre for Sustainable Coastal Management
- \checkmark Salim Ali Centre for Ornithology and Natural History
- ✓ Space Application Centre
- Eventually India could provide leadership in the South Asian region for wetland conservation



Way Forward

- Strengthening the implementation of Ramsar Convention
- Enhancing regional co-operation
- Designating more wetlands as Ramsar sites
- Promotion of integrated management and conservation of wetlands.



THANK YOU

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