



Overview of Integrated Lake Basin Management(ILBM) Approach for Sustainability of Lakes and Wetlands in Nepal

Raju Sapkota, Executive Director

Prava Pandey, Program Officer

Government of Nepal

Ministry of Forests and Environment

National Lake Conservation Development Committee(NLCDC)

Why conserving Lakes and Wetlands?



•5,358 Lakes • 2,323 Glacial •> 2,700 Ox-bow lakes •> 480 tectonics lakes •> 2,300 Ponds •163Wetlands in Terai •6,000 Rivers •> 10 Reservoirs Marshy lands • Paddy fields

Lakes hold 3% of available water of Nepal

Why conserving....

- Homes to many Ramsar sites
- Possession of many lakes worth of global significance
- Trans boundary nature
- Religious and cultural significance





Why conserving

Major source of socio-economy of Nepal









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Why conserving...

22 Indigenous lake dependent communities of Nepal rely on it



Figure: Social Structure and Composition of Lake Community

Why conserving ...











Culture















Biological Richness











Threats to Nepal's Lakes

Anthropogenic Origin

1.Diversion of water
2.Pollution (Direct input of nutrients sewage, pollutants, pesticides)
1.Land-use change (deforestation, intensive agriculture, settlements)
2.Spread of invasive species, replacement of local species by exotic
3.Eutrophication, habitat

degradation

4.Encroachment

Natural Processes1.Erosion2.Sedimentation3.Transportation

Climatic Impacts

1.Temp. rise 2.UV radiation

Ramsar Sites in Nepal



Wetlands Conservation Policies and Laws



Sustainable Development GOALS

- SDG emerged as the success and continuation of Millennium Development Goal 2005-2015
- There are 17 goals with 169 specific targets which is adopted by more than 150 countries around the worlds
- Each goals seek to integrate social, economic and environmental dimension of sustainable development
- Function of wetland contribute in achieving each goal in some ways but are specifically it is linked with Goal 6, 13, 14, 15



Multilateral Environmental Agreements



Institutions

Federal Level

- Ministry of Forests and Environment
- DOFSC
- NLCDC
- DNPWC

Provincial Level

- Provincial Lake Authority
- Provincial Ministry of Industry, Forest and Tourism

Local Level

- DCCs
- Municipality/Rural municipality
- Local Lake
 Conservation
 Users Groups
 (LCUGs)

Partner Organizations: UNDEP, ICIMOD, WWF, UNEP, UNICEF etc. and NGOs

Conservation of Lakes and Wetlands(ILBM Approach) Begins From 2007

National Lake Conservation Development Committee (NLCDC) 2007

- 1. Policy Level
- Policy review
- Policy consolidation

2. Program

- National Lake Conservation Strategy
- Lake Inventory

3. Actions

- Identification of wetlands for Ramsar listing
- Support to restore lake habitats at community level
- Linkages establishment/Partnership development/Network
- Updating Lake Database
- Lakes and wetlands conservation at local level



Policies

National Lake Inventory

- Review of secondary sources
- Spotting 5358 lakes in Nepal based on 700 Topographic map survey
- Field based lake inventory of lakes of Nepal <3000 masl
- Lakes of 62 districts by NLCDC
- 13 districts in coordination with Department of Forest



Policies...

- Lake Management Plans
- Lake Strategic Plan We are in the process of implementation
- Declaration of Pokhara Valley Lake Cluster as a new Ramsar site in 2016

Management Plan in ILBM Approach:

Gaidahawa lake in Rupendehi district

Lake Cluster of Pokhara Valley (under construction with the financial support from USAID Hariyo Ban Program)RIS information sheet(Pokhara Lake Cluster and Kupende Daha)

Policies....

International Lake Conference 2018

- Pokhara Declaration: ILBM in collaboration with ILEC for management and wise use of lakes and their resources
- Development of model projects
- Implementation of a special project
- Establishment of special grant
 ^{12/17}/h²⁰/h²⁰/mes



Finance

Investment in Ramsar Sites Management

Investment in Ramsar sites such as Rara lake (Mugu), She-phoksundo lake (Dolpa), Lake Cluster of Pokhara Valley (Kaski), Ghodaghodi (Kailali) etc.





Finance...

Continue Support to Community

- Strengthening local governance in Rupa lake (Kaski), Rajarani lake (Dhankuta), Jagadishpur and Gaidahawa lake (Kapilvastu), Ghodaghodi lake (kailali), Rara (Mugu), Shephoksundo(Dolpa), Maipokhari (Ilam) etc.
- Over 45 lakes of 30-40 districts receiving government grant annually to implement ILBM at community level
- Awareness Companion





Participation

Enhancing Local Capacity for ILBM

- Exchange lake
 conservation
 learning-ILBM
 (Exposure)
- Capacity building and knowledge sharing training to Lake Users' Group
- Continue to
 participation on ILBM
 Workshops





Lessons

- ILBM integration needs more time to deliver impacts
- Nepal's learning of participatory conservation of forests and water resources are effective to contribute to ILBM
- Integration of ILBM with IWRM is Necessary task
- ILBM demonstration at higher scale is required
- Awareness Companion is needed to Implement

Challenges of ILBM Implementation

- Inventory of lakes above 4000m and glacier lakes
- Weak technical capability
- Financial Constrain
- Sectoral overlapping
- Low awareness among the people living in the lake region on importance of conserving the environment
- Problems facing in capacity building to implements ILBM
- •/17Demarcation of lakes

Way Forward...

- Publication of lake Inventory of Nepal
- High priority to revised National lake strategy plan
- Wetland Academy in Nepal
- ILBM Implementation of Gaidahawa lake (Rupendahi) and Lake Cluster of Pokhara Valley (Kaski)
 Godhaghodi Lake, Kailali
- International Workshop
- ILBM demonstration site



