

**International Conference on**

**“Environment Audit-Concerns  
about Lake Pollution”**

**Presented by  
Mridula Sapru  
SAI INDIA**

# TSO MORIRI



# DEEPAK TAL



A photograph of a polluted lake with buildings in the background. The water is dark and murky, with a lot of debris and trash floating on the surface. The buildings in the background are multi-story and appear to be in an urban area. The overall scene is one of environmental degradation.

# Causes of degradation of Lakes

- **Inflow of silt**
- **Direct discharge of sewage, industrial waste**
- **Fertilizers, pesticides**
- **Encroachments**

# HARIKE LAKE



DAL LAKE



DAL LAKE



# Bellandur Lake





# Environmental Legislation in India

- **Indian Constitution provides for the States commitment to protect the environment**
- **Article 48A Directive Principles of State Policy**
- **Article 51A(g)**
- **Lakes and Wetlands not covered by any specific legal statute**
- **Many legislations have provisions for conservation of lakes**

## National Lake Conservation Programme

- **NLCP was launched in June 2001 to restore and conserve the urban and semi urban lakes degraded due to waste water discharge into them**
- **NLCP being coordinated and implemented through MoEF's National River Conservation Directorate (NRCD)**

# National Lake Conservation Programme

- **Prevention of pollution by intercepting, diversion of sewage and establishment of sewage treatment plants**
- **Measures of lake cleaning such as de-silting, de-weeding and bioremediation**
- **Catchment area treatment which may include afforestation, storm water drainage, silt traps etc**
- **Strengthening of bund, lake fencing, shoreline development etc**

## NLCP (contd)

- **Prevention of pollution from non-point sources by providing low cost sanitation**
- **Public awareness and public participation**
- **Capacity building, training and research in the area of Lake Conservation**

## National Lake Conservation Programme (contd)

### **Covering 57 lakes and 13 States**

- **Sanctioned Cost - Rs 856.57 cr**
- **Projects sanctioned - 40 nos and 57 lakes**
- **Projects completed - 8 nos and 18 lakes  
(as on 31 March 2009)**
- **Amt released by MOEF - Rs 284.07 cr  
(as on 31 March 2009)**

# Audit findings

- **Planning**
  - **NRCD and States differ on prioritization of restoration of lakes**
  - **Lack of planning**
    - **Bellandur lake**
    - **Dal lake**
    - **Kodaikanal lake**

# Audit findings

- Funding
  - Out of 28 states and 7 Union Territories, NRCD had funded projects in 13 states only
  - Underutilization of funds
  - Delay in release of funds by state to implementing agency
  - Diversion of funds
  - States not releasing proportionate share (30% project cost) hampering project completion

# Audit findings

- **Implementation**
  - **Considerable delay in implementation of both ongoing and completed projects**
  - **Wasteful expenditure**
    - Chilika lake
    - Bellandur lake



# Audit findings

## ■ Monitoring and Evaluation

- **NRCD unaware of actual funds spent yearwise on cleaning up lakes, as NRCD treated all funds released as expenditure**
- **NRCD did not effectively monitor these projects at the apex level**
- **State level and citizen monitoring committees not set up**
- **Monitoring report of water quality of completed lakes available only for few projects**
- **NRCD did not evaluate completed projects**
- **Despite spending Rs 284.07 crore, the impact of NLCP in improving water quality of lakes is not clear**

## **Audit of Lake Pollution- some critical issues**

- Complete inventory of lakes – type, water sources, habitations , land use in catchment , sources of pollutants, quality of water etc and regular updation of the same**
- Criticality and risk assessment of degradations – prioritization of conservation plan**

## **Audit of Lake Pollution- some critical issues**

**Coordination – among various agencies responsible for planning, implementation and monitoring of the project**

**Monitoring of Compliance to legislations by regulatory authorities**

**Periodical monitoring of restored lakes**

# THANKS

