Questionnaire for Assessment of wetlands

GENERAL
Name of the Wetland: ____________________________________________________
Location: Latitude: ___________________ Longitude: ___________________
Lake Type: □ Natural Lake □ Lagoon (connected with sea) □ Man-made (Reservoir)
Approximate area of the Wetland: ___________________________________________
Nearest Identifying landmark / characteristic: _________________________________
Proximity to the nearest Wetland (name): ___________________ distance __________
Number of roads nearby: ______________ Roads passing through the wetland: ________

HYDROLOGY
Source of water (inflow): □ Rainfall □ Runoff □ River □ Drain □ Wastewater drain
Outflow, if any (describe):
Water level changes (annual). meters
Does the lake dry out completely? □ Every year □ Occasionally □ Rarely

CATCHMENT (Watershed)
Area, sq km: ___________________ Nature: □ Hilly (if so, slope in degrees) □ Plain □ Coastal
Land use (%): Urban Agriculture Forest Mining Grazing Fallow Fishing
Human Population (Total) Animal population
If Urban Catchment:
Has Sewerage been provided? □ Yes □ No Proportion of population (%)
Sewage treatment: □ NO □ STP □ Oxidation Ponds □ Septic tanks Volume (MLD)
Solid waste disposal in lake (if any)
(incl. Religious offerings/idol immersion, etc.)
Describe any prominent / special features

Land Use for
Agriculture %:
Type of Agriculture:
Machinery used in agriculture:
Frequency of agriculture:
High Density of Urban development:
Power lines:
Telephone cables:
Effluent treatment site:
Natural Drainage into the wetland:
Natural Drainage out of the wetland:
Old housing colonies:
New accommodation (High Rise buildings):
Hutments:
Market:
Garden:
Government Office setups:
Private Offices:
Industrial Activity:

**Type of Industries**
Chemical / Dye / Pharmaceutical / Mechanical / Textile / others

**Human induced activities**
Grazing
Fire
Release of Sewage
Release of effluents
Garbage
Disposal of religious waste/refuse
Rubble and construction material
Domestic animals (cats/ Dogs/ etc)
Washing of vehicles
Surroundings used as toilets

**Education Intuitions**
Schools
Colleges
Polytechnic
Other institutes

**BIODIVERSITY** (Give number of species if known)

*Vegetation around the lake*: Present / Absent

Trees  _____ Native / Exotic
Herbs  _____ Native / Exotic
Shrubs _____ Native / Exotic
Creepers _____ Native / Exotic
Weeds  _____ Native / Exotic
Aquatic vegetation: □ Submerged □ Emergent □ Free floating □ Algae
Remarks on the Vegetation in the lake: Old trees / New plantation / Recent cutting / Old cut wood

Fauna in the lake
Small invertebrates (Mollusks, Insects, Spiders, etc.):
Amphibians:
Reptiles:
Fish:
Birds:
Mammals:
(Name important/rare/endemic/exotic species)

WATER QUALITY AND POLLUTION STATUS
Sources  □ Domestic sewage □ Industr. Effluents □ Stormwater □ Agric. Runoff
□ In-Lake human activity □ Cattle wading □ Other (specify)
Level □ Very high □ Moderately high □ Medium □ Low □ Negligible
Pollution status □ Oligotrophic □ Mesotrophic □ Eutrophic □ Toxic pollution
Visual:  Clean / Looks clean but smells / Appears Polluted

SOCIAL/CULTURAL ISSUES
Aesthetic value:
Recreational value:
Education and Awareness:
Religious aspects:
Cultural attribute:
Tourism potential:
Livelihood dependence:
Urban value:
Public status:

FUNCTIONS AND VALUES
Water used for: (Give estimated % amount)
□ Drinking Water supply □ Irrigation □ Hydropower □ Fisheries □ Transport
□ Recreation (swimming bathing boating angling Other) □ Religious activity
Use of Biological Resources
□ Reeds & grasses for thatch or fodder □ Plant cultivation for food □ Fish □ Prawn
Functions of the Lake
□ Groundwater recharge □ Flood mitigation □ Tourism: Local/ National/ International
□ Supports Biodiversity □ Influence on microclimate □ Socio-cultural □ Aesthetic
MAJOR PROBLEMS
☐ Reduction in area (shrinkage) ☐ Reduction in depth (Siltation) ☐ Encroachments ☐ Algal blooms
☐ Aquatic weeds ☐ Decline or Loss of fisheries ☐ Eutrophication ☐ Organic Pollution ☐ Toxic pollution

Encroachment: Local Residents / Builders / Government

PUBLIC AWARENESS
Are local communities aware of the problems of the lake? ☐ Yes ☐ No
Are local communities interested in the restoration of the lake? ☐ Yes ☐ No
Are there are active local conservation groups (NGOs) interested in the lake? ☐ Yes ☐ No

RESTORATION ACTIVITIES REQUIRED
☐ Improvement of water quality by in-lake treatment ☐ Diversion and treatment of sewage
☐ Desiltation for removal of organic/toxic sediments ☐ Weed removal ☐ Shoreline protection
☐ Catchment treatment to check erosion ☐ Others (specify)