

Annex 2: Format for preparing Brief Document

State / Union Territory: Goa

Name and address of person (s) compiling this information CSIR- NIO & GSWA

Section 1: Identification, Location and Jurisdiction

1.1 Name of the Wetland (Alternative names, including in local language should be given in parenthesis after official name)

Coneix Lake (कोने तळे)

1.2 Name of the Village(s) , Tehsil (s), Municipal area(s)

Village Coneix- Priol, Ponda Taluka

1.3 Name of the District(s) in which wetland is located

South Goa

1.4 Geographical coordinates (Latitude and Longitude, to degree, minutes and second)

Latitude: From 15°25'06.61" N to 15°25'08.91" N

Longitude: From 73°59'08.48" E to 73°59'09.97" E

1.5 Name of the Department / Agency which has jurisdiction over the wetland

Village panchayat Priol

Section 2: Site Characteristics

2.1 Area of wetland (ha): 0.9 ha

2.2 Wetland type (Please tick appropriate categories and sub-categories)

Category	Subcategory
<input checked="" type="checkbox"/> Natural(Inland)	<input type="checkbox"/> Permanent lakes <input type="checkbox"/> Seasonal/intermittent lakes <input checked="" type="checkbox"/> Permanent streams/creeks <input type="checkbox"/> Seasonal/ intermittent streams/creeks <input type="checkbox"/> Oxbow <input type="checkbox"/> River flood plain <input type="checkbox"/> Permanent freshwater marshes <input type="checkbox"/> Seasonal/ intermittent freshwater marshes <input type="checkbox"/> Shrub-dominated wetlands <input type="checkbox"/> Tree-dominated wetlands <input type="checkbox"/> Geothermal wetlands <input type="checkbox"/> Karst and other subterranean hydrological systems

<input type="checkbox"/> Natural(Coastal)	<input type="checkbox"/> Coastal lagoon <input type="checkbox"/> Estuary <input type="checkbox"/> Intertidal mud, sand or salt flats <input type="checkbox"/> Mangroves <input type="checkbox"/> Coral reefs
<input type="checkbox"/> Human-made	<input type="checkbox"/> Aquaculture pond <input type="checkbox"/> Tank <input type="checkbox"/> Saltpan <input type="checkbox"/> Dam /Reservoir

2.3 Depth (m) Maximum 3m

2.4 Elevation(m above mean sea level) 52 m

2.5 Water regimes

a) Main source of water (tick all applicable)

Rainfall Groundwater Catchment run off Direct / indirect inflow from river

Others please specify Springs

b) Water permanence

Mostly permanent Mostly intermittent

c) Destination of water from wetland

Feeds groundwater To downstream catchment To river To sea

d) Water pH

Acid(<5.5) Circum neutral (5.5–7.4) Alkaline (>7.4)

Not known

e) Water salinity

Fresh (<0.5g/l) Brackish (0.5 –30g/l)) Euhaline (30- 40g/l)

Hypersaline (>40g/l) Not known

f) Nutrient in water

Eutrophic Mesotrophic Oligotrophic

Not known

2.6 Climatic setting

- a) Annual Rainfall(mm) 2918mm
- b) Temperature(°C) Minimum 20°C Maximum 33°C
- c) Humidity (%) Minimum 67% Maximum 84%
- 2.7 Area of zone of influence(in ha) 10.8 ha [Ref.paras32-34of the guidelines on wetlands]
- 2.8 Major land use within zone of influence (provide as approximate % of catchment area)
- | | |
|---------------------|----------------|
| Forests/vegetation | <u>96.29</u> % |
| Plantation | <u>3.70</u> % |
| Agriculture | <u>0</u> % |
| Settlements (Rural) | <u>0</u> % |
| Settlements (Urban) | <u>0</u> % |
| Industrial | <u>0</u> % |
- (Detailed LULC of influence zone and 50m buffer is given in Table-I below)
- 2.9 Map of wetland complex and zone of influence
(Enclosed as Annexure I – V and VI with site photographs to this document)

Section 3: Biodiversity

- 3.1 Notable plant species present in wetland

Cocos nucifera (Coconut), *Anacardium occidentale* (Cashew), Grasses, reeds

- 3.2 Notable animal species present in wetland

Sus scrofa (wild boar), *Bos gauras* (Indian bison), *Vulpes sp.* (Fox), monkey, snake

- 3.3 Species of conservation significance (rare, endangered, threatened, endemic species)

Bos gauras, *Vulpes sp.* Maybe identified from validated PBR

- 3.4 Major plant invasive alien species

None

- 3.5 Major animal invasive alien species

None

Section 4: Ecosystem services

Importance	Relevant for the site (please tick yes or no)	If Yes, Details (upto 50 words for each category)
Source of drinking water for people living and around	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water flows downstream where it is used for drinking
Source of water for agriculture	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Used for irrigation of paddy field and vegetables
Fisheries	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fishing done by locals using fishing rods
Cultivation of aquatic food plants	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
For buffalo wallowing and use of domesticated animals	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water body is used for buffalo wallowing.
Medicinal plants	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Medicinal plants grow on boundary of waterbody
Is a recreational site	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	People visit the lake for relaxing
Buffering communities from extreme events as floods and storms	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	During monsoon, water flows into the lake thereby storing rain water thereby preventing flooding.
Groundwater recharge	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water in the lake helps replenish ground water levels
Water purification	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water gets purified as it percolates through the soil.
Acts as a sink for sediments	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Provides de-silting, settling of silt from rainwater runoff
Has significant cultural and religious values	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Traditional religious practices occur at the waterbody
Is a site for recreation and tourism	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Tourists visit the lake for recreation
Supports noteworthy plants species	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>Cocos nucifera, Anacardium occidentale</i>
Supports noteworthy animal species	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>Bos gauras, Vulpes sp., Sus scrofa</i>
Site of high congregation of migratory water birds	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Migratory birds visit the lake during winter months
Supports life cycle of fish or amphibians	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Helps complete life cycle of fishes like tiggur, pittol, crabs
Mining	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Any other, please list		

Section 5: Pre-Existing Rights and Privileges

Nature of right and privilege	Relevant for the site (please tick yes or no)	Does this negatively impact the wetland's ecological health?	Brief description (upto 50 words for each category)
Community Fishing (without any lease or permission from government department)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not assessed	Locals fish using hook and line
Fishing under lease from government department	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not assessed	
Harvest of plants (without any lease or permission from government department)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not assessed	Medicinal plants are harvested from the surrounding area
Harvest of plants under lease from government department	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not assessed	
Agriculture or horticulture within wetland	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not assessed	
Grazing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not assessed	Goats graze on the periphery of the water body
Religious practices	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not assessed	Traditional religious practices take place at the water body
Withdrawal of water for domestic use	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not assessed	Water flows downstream where it is used for domestic purposes
Withdrawal of water for agriculture or fisheries	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not assessed	Water is used for irrigation of paddy fields and plantations
Bathing or wallowing of domestic animals	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not assessed	Water body is used for buffalo wallowing
Plying of boats	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not assessed	
Any other, please list here	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not assessed	

Section 6: Present and Potential Threats

Threat	Degree	Present or Potential	Additional information, if any
Changes in water inflow and outflow	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Potential	
Pollution	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Potential	
Unsustainable harvest of biological resources	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Potential	
Mining	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Potential	
Siltation	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Potential	
Encroachment	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Potential	
Spread of invasive species	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Potential	
Any other, please list	<input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	<input type="checkbox"/> Present <input type="checkbox"/> Potential	

Section 7: Activities Proposed to be Prohibited (other than those listed in Rule 4(2) of Wetland Rules and Regulated

Activity	Whether prohibited or regulated	Regulation within wetlands or zone of influence	If regulated, indicate the level of regulation (in terms of people, restricted area or any other)	Name of department / agency responsible for regulation / prohibition	Additional information, if any
Withdrawal of water / impoundment/diversion or any other hydrological intervention	<input type="checkbox"/> Regulated <input checked="" type="checkbox"/> Prohibited	<input checked="" type="checkbox"/> Wetland <input type="checkbox"/> Zone of influence		Water Resource Department (WRD)	Only current activities to continue
Harvesting of resources (living / non-living)	<input checked="" type="checkbox"/> Regulated <input type="checkbox"/> Prohibited	<input type="checkbox"/> Wetland <input checked="" type="checkbox"/> Zone of influence	Medium	BMC/ village panchayat	Statutory approval required, propose to build medicinal garden
Grazing	<input checked="" type="checkbox"/> Regulated <input type="checkbox"/> Prohibited	<input type="checkbox"/> Wetland <input checked="" type="checkbox"/> Zone of influence	Low	Village Panchayat	
Discharge of treated sewage/ effluent / wastewater	<input type="checkbox"/> Regulated <input checked="" type="checkbox"/> Prohibited	<input checked="" type="checkbox"/> Wetland <input type="checkbox"/> Zone of influence		Goa waste management corporation, panchayat	Statutory national and state legislation applicable.

Construction of boat jetties, and facilities for temporary use ,as pontoon bridges	<input type="checkbox"/> Regulated <input checked="" type="checkbox"/> Prohibited	<input checked="" type="checkbox"/> Wetland <input type="checkbox"/> Zone of influence		PWD	Statutory approval required
Aquaculture, agriculture and horticulture activities within the wetland boundaries.	<input type="checkbox"/> Regulated <input checked="" type="checkbox"/> Prohibited	<input checked="" type="checkbox"/> Wetland <input type="checkbox"/> Zone of influence		Agriculture and fisheries department	Statutory approval required
Encroachment	<input type="checkbox"/> Regulated <input checked="" type="checkbox"/> Prohibited	<input checked="" type="checkbox"/> Wetland <input type="checkbox"/> Zone of influence		Village panchayat	Statutory national and state legislation applicable.
Poaching	<input type="checkbox"/> Regulated <input checked="" type="checkbox"/> Prohibited	<input checked="" type="checkbox"/> Wetland <input type="checkbox"/> Zone of influence		Forest Department	Statutory national and state legislation applicable.
1. Construction/ development activities (for all purposes)	<input type="checkbox"/> Regulated <input checked="" type="checkbox"/> Prohibited	<input checked="" type="checkbox"/> Wetland <input type="checkbox"/> Zone of influence		Village panchayat	Statutory national and state legislation applicable.
2. Extraction of soil, mud, rocks for commercial purpose	<input type="checkbox"/> Regulated <input checked="" type="checkbox"/> Prohibited	<input checked="" type="checkbox"/> Wetland <input type="checkbox"/> Zone of influence		Village panchayat	Approval required
3. Disposal of solid waste/untreated sewage	<input type="checkbox"/> Regulated <input checked="" type="checkbox"/> Prohibited	<input checked="" type="checkbox"/> Wetland <input type="checkbox"/> Zone of influence		Village panchayat	Statutory national and state legislation applicable.

Section 8: Activities Proposed to be permitted

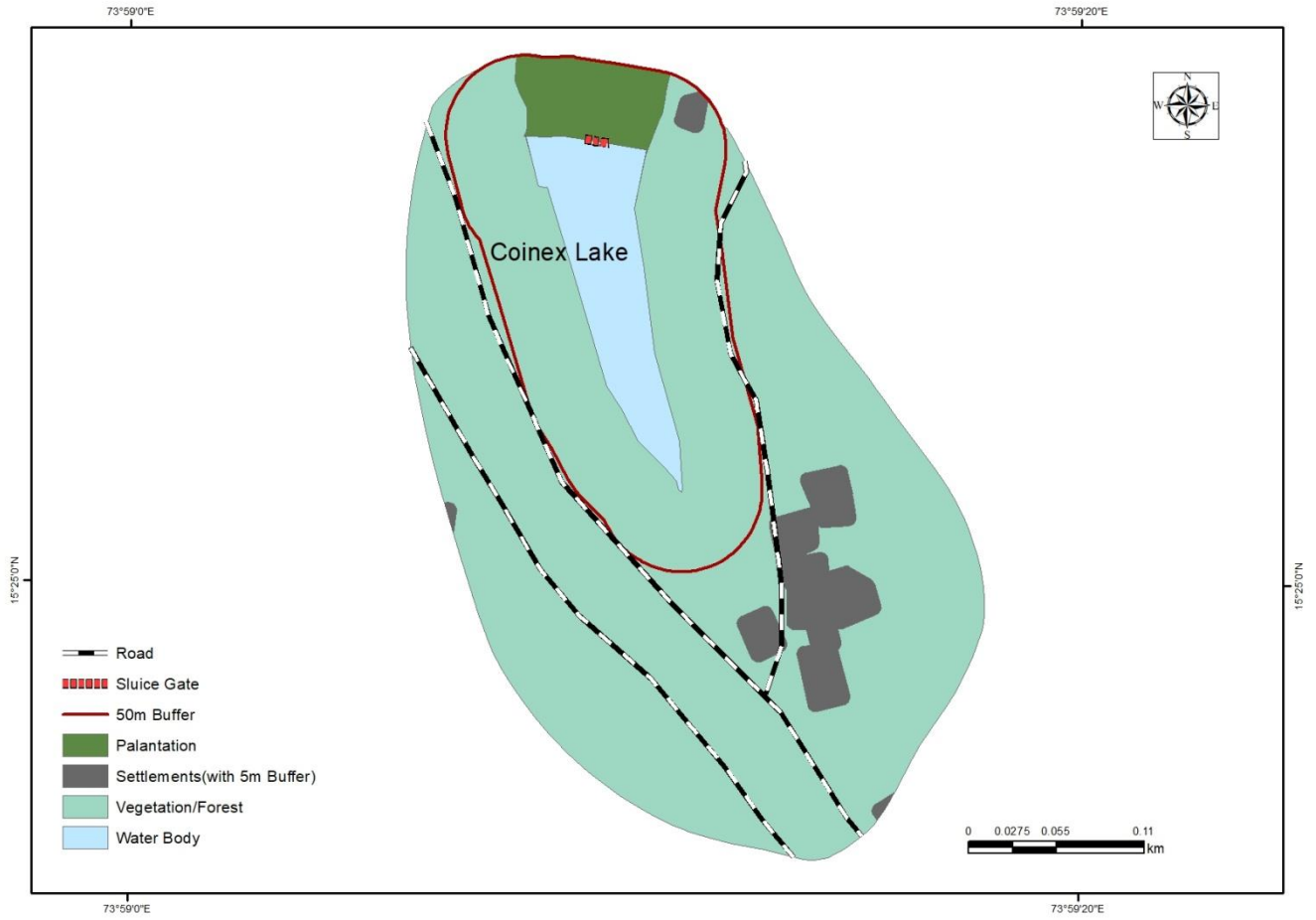
Activity	Place a tick mark if relevant	Within wetlands or zone of influence	Additional information, if any
Traditional Agriculture/ Paddy cultivation	✓	<input type="checkbox"/> Wetland <input checked="" type="checkbox"/> Zone of influence	Downstream agriculture activities should continue
Traditional Religious activities	✓	<input checked="" type="checkbox"/> Wetland <input checked="" type="checkbox"/> Zone of influence	Traditional activities to continue

Section 9: Listing of Available Scientific Resources Used

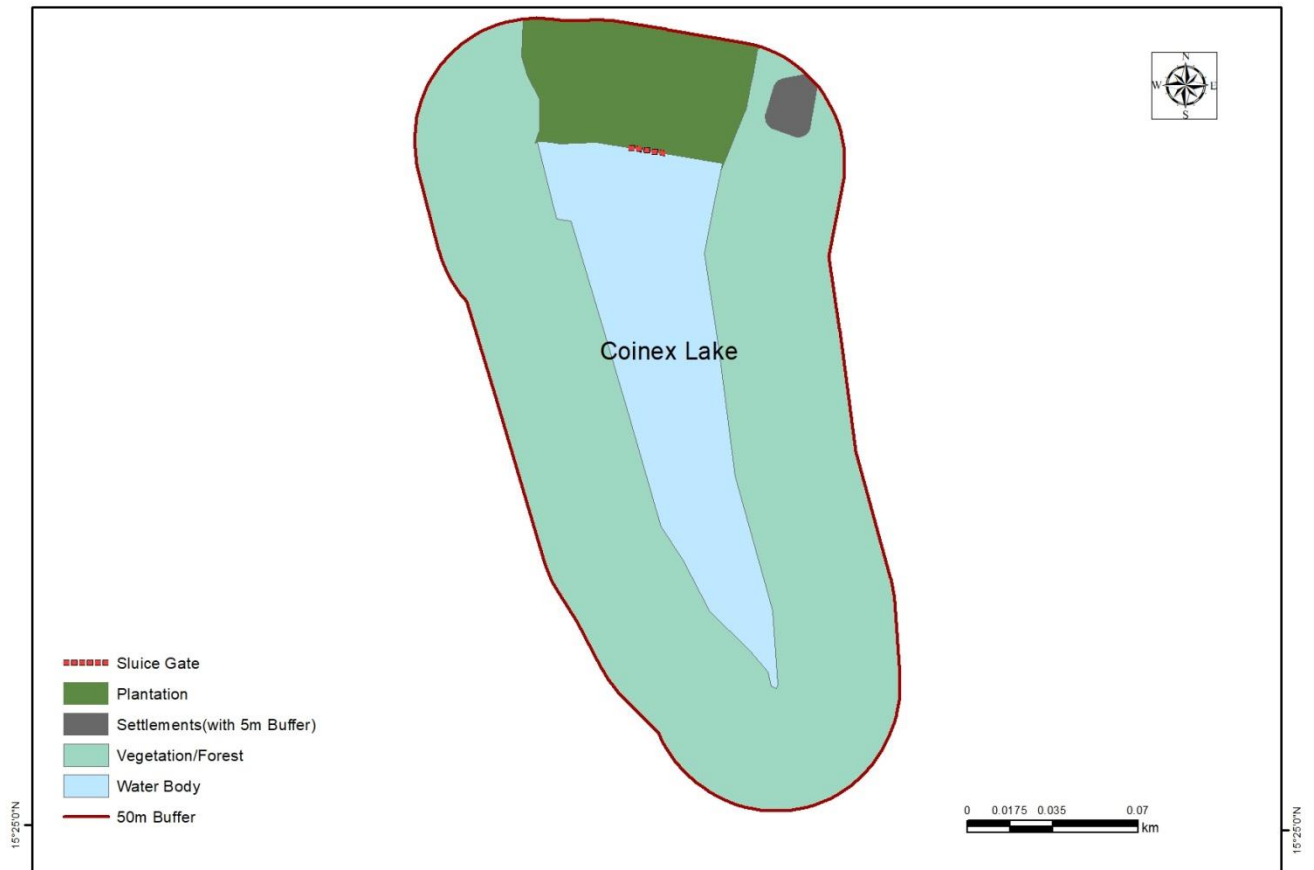
Table-I: LULC of Coneix Lake

Coenix lake					
Sl:No:	LULC	Influence Zone		50 meter Buffer	
		Area(Hec)	Percentage Area	Area(Hec)	Percentage Area
1	Plantation	0.4	3.703703704	0.4	12
2	Vegetation	10.4	96.2962963	3.02	88
	Total Area	10.8	100	3.42	100

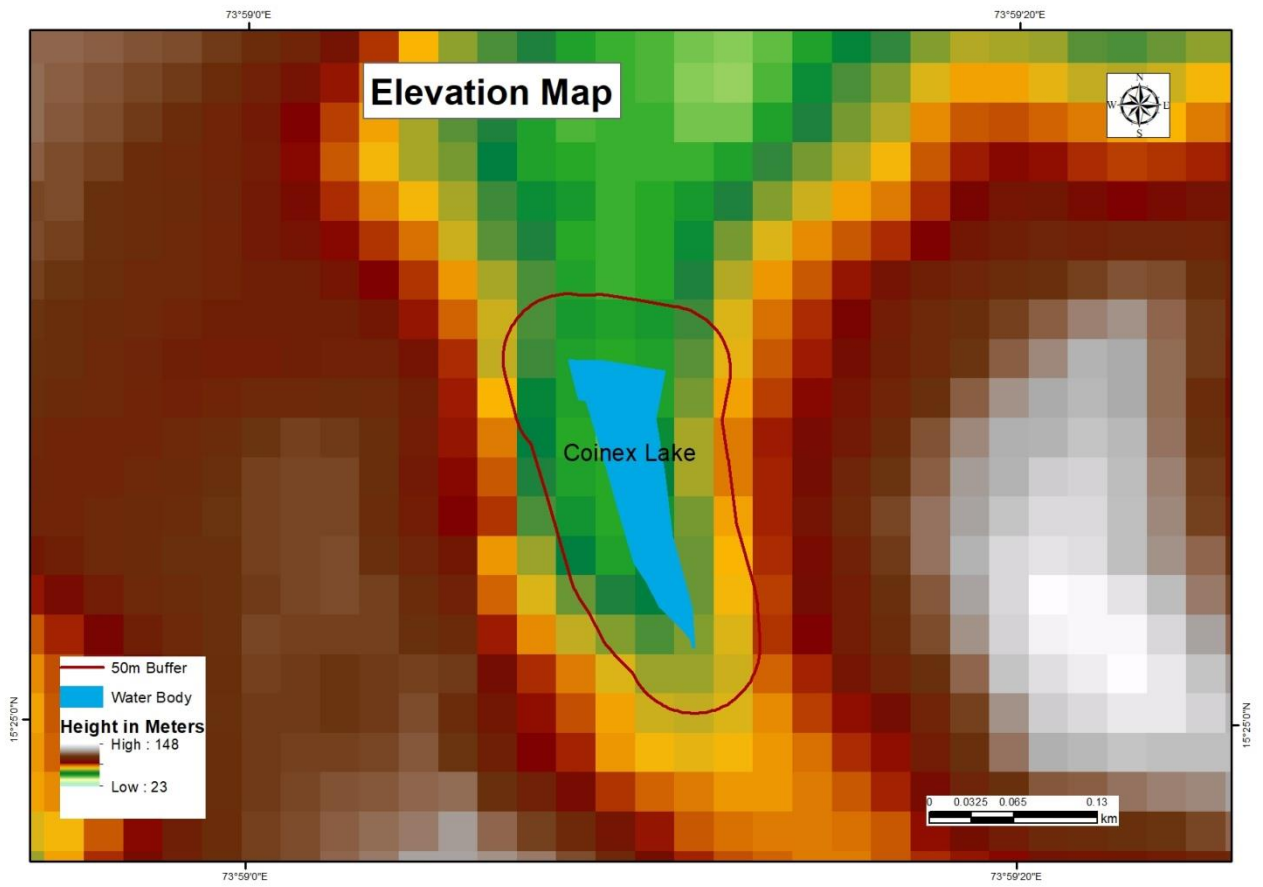
Annexure-I: LULC of the influence zone of Coneix Lake



Annexure-II: LULC of 50m buffer of Coneix Lake



Annexure-III: Elevation (DEM) of Coneix Lake



Annexure-IV: Survey map of Coneix Lake

Annexure-V: Google image of Coneix Lake



Annexure-VI: Site Photographs of Coneix Lake

