Annex 2: Format for preparing Brief Document

Excel code: 22

e and address of person (CSIR- NIO & GSBB	
on 1: Identification, Loc	ation and Jurisdiction	
parenthesis after officia	ıl name)	cal language should be given in
Sulabhat Lake (सुलभात	ितळ)	
•	•	
Agassaim village, Tis	wadi taluka	
	in which wetland complex is loca	ated
Tiorni Goa		
Latitude: From _	15°26′21.97″ N to 15°26	′13.67″ N
Longitude: From _	73 ⁰ 53'53.46" E to 73 ⁰ 5	4′03.89″ E
Name of the Departmen	nt / Agency which has jurisdiction	over the wetland/ wetlands complex
Agassaim Village panc	hayat, Water Resource Departmen	nt (WRD)
on 2: Site Characteristic	s	
Area of wetland/wetlan	ds category(ha): 5.4 ha	
Wetland type (Please ti	ck appropriate categories and sub	-categories)
Category	Subcategory	
√Natural(Inland)	☐ Seasonal/intermittent lak ☐ Permanent streams/creek ☐ Seasonal/ intermittent str ☐ Oxbow ☐ River flood plain ☐ Permanent freshwater m ☐ Seasonal/ intermittent fre ☐ Shrub-dominated wetland ☐ Tree-dominated wetland ☐ Geothermal wetlands	arshes eshwater marshes ds s
	Name of the Wetland (Aparenthesis after official Sulabhat Lake (银河州区 Name of the Village (s) Agassaim village, Tise Name of the District(s) North Goa Geographical coordinate Latitude: From Longitude: From Name of the Department Agassaim Village pancion 2: Site Characteristic Area of wetland/wetland Wetland type (Please times after the Market of Wetland type (Please times after the Wetland type (Please times after	Geographical coordinates (Latitude and Longitude, to de Latitude: From 15°26′21.97″ N to 15°26′21.97″

	□ Natural(Coastal)	☐ Coastal lagoon ☐ Estuary ☐ Intertidal mud, sand or sa ☐ Mangroves ☐ Coral reefs	ılt flats
	☐ Human-made	☐ Aquaculture pond ☐ Tank ☐ Saltpan ☐ Dam /Reservoir	
2.3	Depth (m) Maximum	5-6	
2.4	Elevation (m above mean	n sea level)3	
2.5	Water regimes		
a)	Main source of water (tic	ck all applicable)	
	✓Rainfall □Groundw	vater ✓Catchment run off	Direct / indirect inflow from river
	☐ Others please specify		<u> </u>
b)	Water permanence		
	✓ Mostly permanent	☐Mostly intermittent	
c)	Destination of water from	n 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) 4.34 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 97.7 %
	Plantation%
	Agriculture0_%
	Settlements (Rural)%
	Settlements (Urban)%
	Industrial%
	(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 Annex I –V and VI with site
	photographs to this document)
Secti	on 3: Biodiversity
3.1	Notable plant species present in wetland Nymphaeaceae (Water lily), Eichornia crassipes (water hyacinth), Nymphoides indicates and in the control of the co
3.2	Notable animal species present in wetland Freshwater terrapin
3.3	Species of conservation significance (rare, endangered, threatened, endemic species)
3.4	Major plant invasive alien species
3.5	Major animal invasive alien species

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	□Yes ✓No	
Source of water for agriculture	√Yes □No	Paddy field during summer by the local people
Fisheries	√Yes □No	Traditional fishery is carried out by the village people by angling
Cultivation of aquatic food plants	□Yes ✓No	
For buffalo wallowing and use of domesticated animals	√Yes □No	Used for buffalo bathing in the water body.
Medicinal plants	□Yes ✓No	
Is a recreational site	√Yes □No	Used for ganesh idol visarjan
Buffering communities from extreme events as floods and storms	√Yes □No	During monsoon, the water from the hills directly flows into the water body and prevents flooding in surrounding areas
Groundwater recharge	✓Yes □No	It helps in replenish the ground water levels
Water purification	✓Yes □No	Filtering of water and at certain height, water remains throughout the year.
Acts as a sink for sediments	√Yes □No	Heavy sediment deposition in the water body and natural purification of the water takes place as the water body continuously receives percolated water
Has significant cultural and religious values	✓Yes □No	Ganesh idol Visarjan
Is a site for recreation and tourism	✓Yes □No	It is a tourist place and planning to start boating in the water body.
Supports noteworthy plants species	√Yes □No	Nymphaeaceae, Eichornia crassipes, Nymphoides indica
Supports noteworthy animal species	✓Yes □No	Freshwater terrapin
Site of high congregation of migratory water birds	√Yes □No	Earlier many migrant birds come to this lake but now the diversity of birds has reduced due to anthropogenic disturbance.
Supports life cycle of fish or amphibians	√Yes □No	The life cycle of fishes is supported in this water body.
Mining	□ Yes ✓ 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)	✓Yes □No	☐ Yes ✓ No ☐ Not assessed	Small scale fishing done by locals.
Fishing under lease from government department	□Yes ✓No	☐ Yes ✓ No ☐ Not assessed	
Harvest of plants (without any lease or permission from government department)	√Yes □No	☐ Yes ✓ No ☐ Not assessed	Lotus is harvested by the local people
Harvest of plants under lease from government department	□ Yes ✓No	☐ Yes ☐ No ☐ Not assessed	
Agriculture or horticulture within wetland	□Yes ✓No	☐ Yes ✓ No ☐ Not assessed	
Grazing	□ Yes ✓No	☐ Yes ☐ No ☐ Not assessed	
Religious practices	√Yes □No	☐ Yes ✓ No ☐ Not assessed	Ganesh idol Visarjan in the water body
Withdrawal of water for domestic use	□ Yes ✓No	☐ Yes ☐ No ☐ Not assessed	
Withdrawal of water for agriculture or fisheries	√Yes □No	☐ Yes ✓ No ☐ Not assessed	There is sluice gate for the water flow to the agricultural field.
Bathing or wallowing of domestic animals	□ Yes ✓No	☐ Yes ☐ No ☐ Not assessed	
Plying of boats	□Yes ✓No	☐ Yes ☐ No ✓ Not assessed	Proposed to start small scale boating in the water body
Any other, please list here	□ Yes □No	☐ Yes ☐ No ☐ Not assessed	

Section 6: Present and Potential Threats

Threat	Degree		Present or Potential	Additional information, if any
Changes in water inflow and outflow	□High	□Medium ✓Low	□ Present ✓ Potential	
Pollution	□High	□Medium ✓Low	✓ Present □ Potential	Sound pollution due to anthropogenic disturbance.
Unsustainable harvest of biological resources	□High	□Medium ✓Low	□Present ✓Potential	
Mining	□High	□Medium ✓Low	□ Present ✓ Potential	
Siltation	□High	□Medium ✓Low	□Present ✓Potential	
Encroachment	□High	□Medium ✓Low	☐ Present ✓ Potential	
Spread of invasive species	□High	□Medium√Low	☐ Present ✓ Potential	
Any other, please list	□High	□Medium □Low	□ Present □ Potential	

Section7: 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/diversio n or any other hydrological intervention	Regulated	✓ Wetland □Zone of influence	Medium	WRD	Statutory approval required
Harvesting of resources (living / non-living)	Prohibited	✓Wetland □Zone of influence			
Grazing	Regulated	✓Wetland □Zone of influence	Medium	Animal husbandry	
Discharge of treated sewage/ effluent / wastewater	Prohibited	✓Wetland ✓Zone of influence		State Public Works Department	Statutory national and state legislation applicable.

Construction of boat jetties, and facilities for temporary use ,as pontoon bridges	Regulated	✓Wetland □Zone of influence	Medium	Tourism/ Forest Department	Max10 small boats Statutory approval required for new activities within the wetland boundaries and buffer.
Aquaculture, agriculture and horticulture activities within the wetland boundaries.	Regulated	✓Wetland ✓Zone of influence	Medium	Fisheries, Agriculture Department, Panchayat	Permission from authorities. Traditional activities may continue.
Any other, please list 1. Disposal of solid waste/untreated sewage	Prohibited	✓Wetland ✓Zone of influence			Statutory national and state legislation applicable.
2. Construction activities	Prohibited	✓Wetland ✓Zone of influence			Approval required in zone of influence
3. Extraction of soil, mud, rocks for commercial purpose	Prohibited	✓Wetland □Zone of influence			Approval required

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	√	☐Wetland ✓Zone of influence	For local farmers
Traditional Religious activities	√	✓Wetland □Zone of influence	Ganesh visarjan

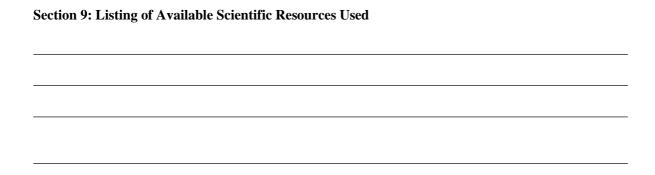
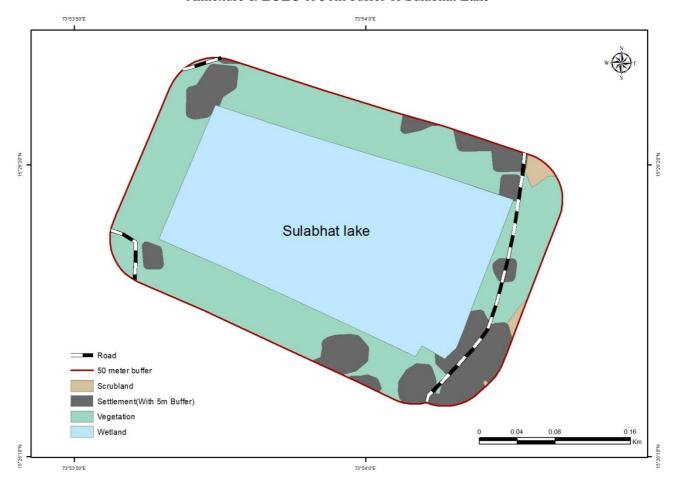


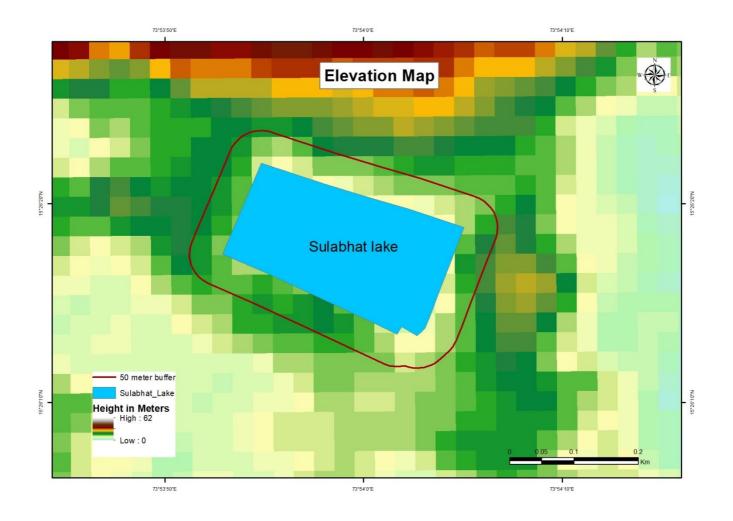
Table-I: LULC of Sulabhat Lake

Sulabhat Lake				
		50 meter Buffer		
Sl.No:	LULC	Area(Hec)	Percentage Area	
1	Scrubland	0.1	2.3	
2	Vegetation	4.24	97.7	
Total Area 4.34 100				

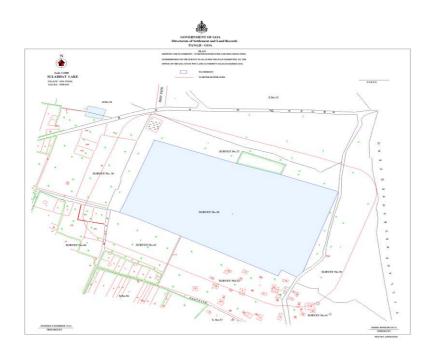
Annexure-I: LULC of 50m buffer of Sulabhat Lake



Annexure-II: Elevation (DEM) map of Sulabhat Lake



Annexure-III: Survey map of Sulabhat Lake showing influence zone



Annexure-IV: Google image of Sulabhat Lake



Annexure-VI: Site photographs of Sulabhat Lake



Annexure-VII: Diversity of Sulabhat Lake

