

**Annex 2: Format for preparing Brief Document**

State / Union Territory: Goa

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

**Section 1: Identification, Location and Jurisdiction**

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

Bondvol Lake (बॉण्डवोल तळे)

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

Village Santacruz, Taluk Tiswadi

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

North Goa

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

Latitude: From 15<sup>0</sup>27'37.28" N to 15<sup>0</sup>27'49.77" N

Longitude: From 73<sup>0</sup>50'17.55" E to 73<sup>0</sup>50'30.74" E

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

Water Resource Department (WRD), Government of Goa, maintains the area.

**Section 2: Site Characteristics**

2.1 Area of wetland(ha): 8 ha

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

Category	Subcategory
<input type="checkbox"/> Natural(Inland)	<input checked="" type="checkbox"/> Permanent lakes <input type="checkbox"/> Seasonal/intermittent lakes <input type="checkbox"/> Permanent streams/creeks <input type="checkbox"/> Seasonal/ intermittent streams/creeks <input type="checkbox"/> Oxbow <input type="checkbox"/> River floodplain <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 checked="" type="checkbox"/> Human-made	<input checked="" type="checkbox"/> Aquaculture pond <input type="checkbox"/> Tank <input type="checkbox"/> Saltpan <input type="checkbox"/> Dam /Reservoir

2.3 Depth (m) Maximum 12.14

2.4 Elevation(m above mean sea level) 7.49

2.5 Water regimes

a) Main source of water (tick all applicable)

Rainfall     Groundwater     Catchment runoff     Direct / indirect inflow from river

Others please specify Natural 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)     Circumneutral (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) 2.5-3
- b) Temperature(°C) Minimum 20°C Maximum 33°C
- c) Humidity(%) Minimum 67% Maximum 84%

2.7 Area of zone of influence (in ha) 50.57ha [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>84.63</u> %
Plantation	<u>0</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)

(Enclosed as Annex I –V and VI with site photographs to this document)

### Section 3: Biodiversity

3.1 Notable plant species present in wetland

*Syzygium caryophyllatum*, *Grewia tiliaefolia*, *Ficus* sp., *Ziziphus rugosa*, *Glycosmis pentaphylla*, *Caryota aurens*, *Careya arborea*, *Carissa caranda*,

---

3.2 Notable animal species present in wetland

*Haliastur indus* (Brahminy Kite); *Milvus migrans* (Black Kite); *Dicrurus macrocercus* (Black drongo); *Hirundo rustica* (Barn swallow); Botaurinae (Bitterns); *Microcarboniger* (Little cormorant); *Vanellus indicus* (Red-wattled lapwing); *Porphyrioporphyrus* (Purple Swamphen); *Clanga hastata* (Indian spotted eagle); *Haliaeetus leucogaster* (White-bellied sea eagle); *Phalacrocorax fuscicollis* (Indian cormorant); *Anhinga melanogaster* (Oriental darter); *Ceryle rudis* (Pied kingfisher); *Lissemys punctata* (Indian flapshell turtle); *Varanus bengalensis* (Monitor lizard). Civet cats, Porcupines, Beetles

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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	There is a valve and overflow point build as a canal downstream. The overflow water along the canal is used for many different purposes by the village people.
Source of water for agriculture	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water is mainly used for paddy field, vegetables and fruit plants which is well taken care by the comunidade
Fisheries	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Earlier, fishes were bred in the lake and was available only for the community and controlled by comunidade of Calapur
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	Local people use the water mainly for domestic use
Medicinal plants	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Biodiverse and is full of medicinal plants around the lake.
Is a recreational site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Buffering communities from extreme events as floods and storms	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Groundwater recharge	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water remains throughout the year at certain height, mainly because of the catchment and natural springs.
Water purification	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water from catchment area being medically pure and having natural filters with it, it purifies the water
Acts as a sink for sediments	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sediment and any excess nutrients from landward side get settles in the water body and natural purification of the water takes place.
Has significant cultural and religious values	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The community itself takes care of farmer's occupation which is directly connected to the agriculture. There is stone bar on the embankment called "Rakandar" which protects Bondvol lake from all the bad vibes.
Is a site for recreation and tourism	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Supports noteworthy plants species	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Supports noteworthy animal species	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Annexure A
Site of high congregation of migratory water birds	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Main source of water of numerous migratory birds

Supports life cycle of fish or amphibians	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Annexure B
Mining	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The details will be available after PBR completion
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Notassessed	
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"/> Notassessed	
Harvest of plants (without any lease or permission from government department)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Notassessed	
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"/> Notassessed	
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"/> Notassessed	The tenant is cultivating paddy and crop during dry season
Grazing	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Notassessed	Few cattle grazing seen in the vicinity of the waterbody
Religious practices	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Notassessed	Religious belief Associated with protector Of Bondvol Lake
Withdrawal of water for domestic use	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Notassessed	Water downstream the lake is being used for laundry and irrigation
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"/> Notassessed	The water from the lake is used to cultivate paddy
Bathing or wallowing of domestic animals	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Notassessed	
Plying of boats	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Notassessed	
Any other, please list here	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Notassessed	

## 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	Due to irrigation practices any misuse could create changes in water flow
Pollution	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Potential	Analysis report from Goa State Pollution Control Board (GSPCB) shows fairly good
Unsustainable harvest of biological resources	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low	<input type="checkbox"/> Present <input type="checkbox"/> Potential	Not observed
Mining	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low	<input type="checkbox"/> Present <input type="checkbox"/> Potential	Does not exist
Siltation	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Potential	Only during ongoing construction practices are seen silts deposited in the area of the lake
Encroachment	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Potential	Absence of structure within Waterscape area of waterbody Offers potential encroachment
Spread of invasive species	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low	<input type="checkbox"/> Present <input type="checkbox"/> Potential	
Any other, please list	<input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	<input checked="" type="checkbox"/> Present <input type="checkbox"/> Potential	Open defecation, disposal of garbage in the nearby areas and conduct of undesired Incidences by miscreants in the area should be controlled

## 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 checked="" type="checkbox"/> Regulated <input type="checkbox"/> Prohibited	<input type="checkbox"/> Wetland <input checked="" type="checkbox"/> Zone of influence	Regulated by WRD	Communitade of Calapur	Sluice gate is provisioned by WRD for effective

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	Comunidade of Calapur	Non- living resources should be limited and banned for commercial use
Grazing	<input checked="" type="checkbox"/> Regulated <input type="checkbox"/> Prohibited	<input type="checkbox"/> Wetland <input checked="" type="checkbox"/> Zone of influence	Low	Comunidade of Calapur	
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	The entire notified wetland	GWSA and GPSC	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	High	GSTDC	Statutory national and state legislation applicable.
Aquaculture, agriculture and horticulture activities within the wetland boundaries.	<input checked="" type="checkbox"/> Regulated <input type="checkbox"/> Prohibited	<input type="checkbox"/> Wetland <input checked="" type="checkbox"/> Zone of influence	Cultivation shall be limited to the surrounding of the water bodies in the season	GWSA	Due to the existing natural spring at the base of core wetland area, cultivation will be prohibited
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			
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			

### Section 8: Activities Proposed to be permitted

Activity	Place a tick mark if relevant	Within wetlands or zone of influence	Additional information, if any
Preservation of this waterbody and maintaining quality of its significant catchment area especially no development zone, steep slopes and tree cover areas to ensure sustainability of this waterbody for future water security of local area.	✓	<input type="checkbox"/> Wetland <input checked="" type="checkbox"/> Zone of influence	The boundary of the wetland may be reinforced using natural means so as not to disturb the ecological character of the waterbody.
Deciding best possible use of wetland without affecting or impacting its ecological character and services offered presently	✓	<input checked="" type="checkbox"/> Wetland <input checked="" type="checkbox"/> Zone of influence	Local body, Local BMC, Stakeholders, WRD, GSWA may be involved in preparing plan and execution

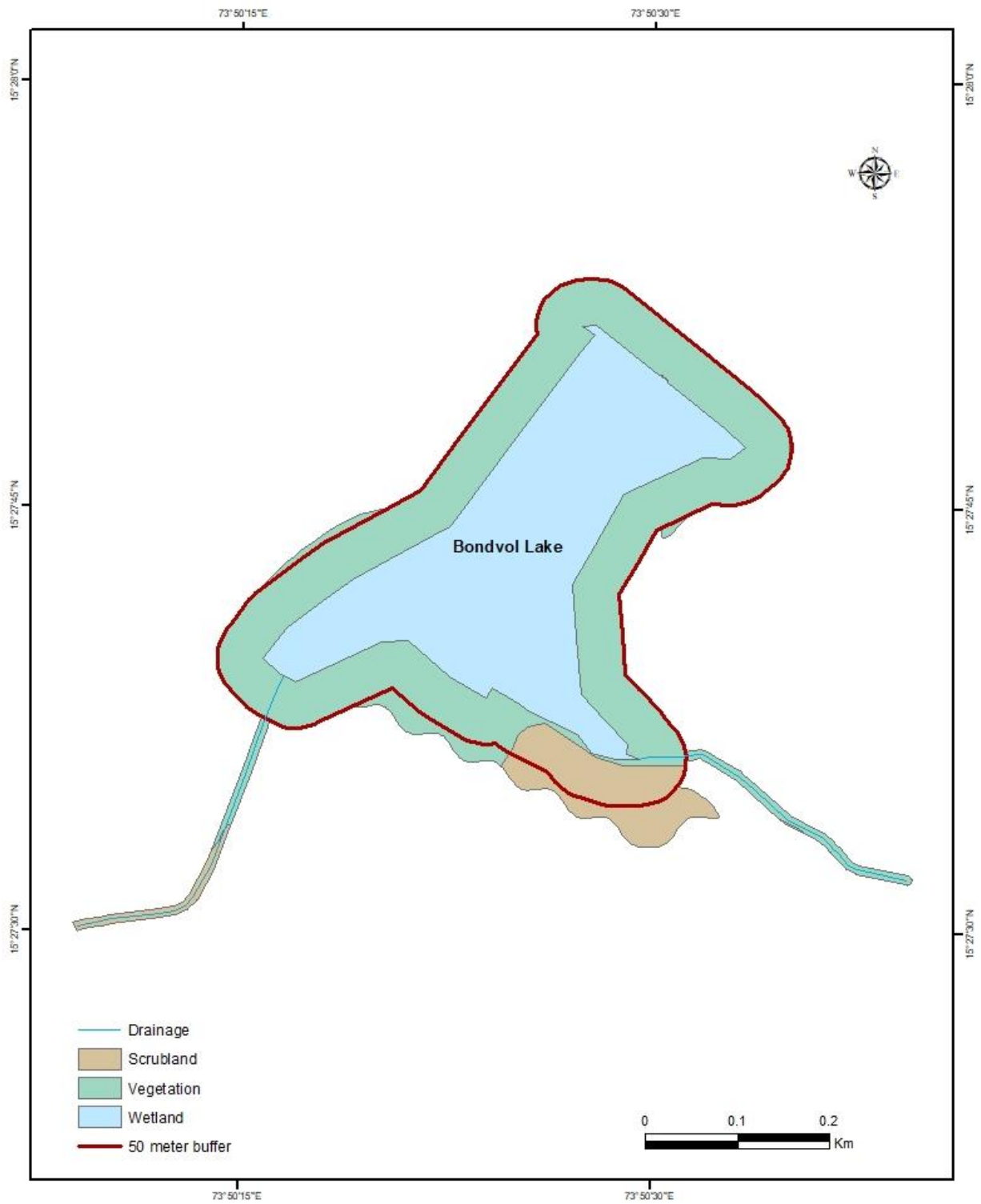
### Section 9: Listing of Available Scientific Resources Used

Submissions and inputs made to GSWA and GSBB by various departments namely Forest Dept. WRD Dept, DSLR, TCP and local body while MS GSBB was also MS of task force. Inspection reports of GSBB, information from e bird, and other researchers from Goa University, etc. have also had a significant input.

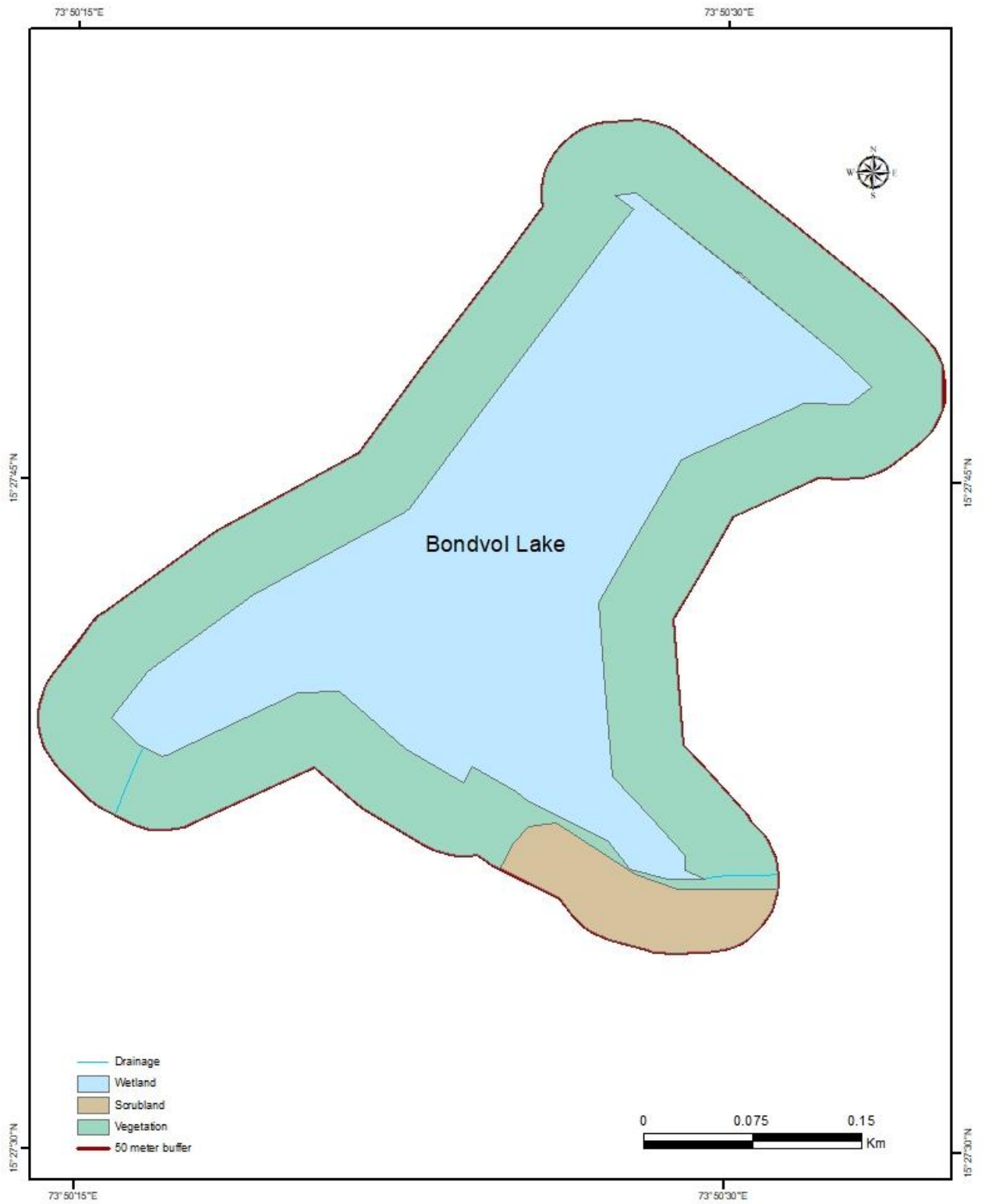
Table-I: LULC of Bondvol Lake

Bondvol lake					
Sl.No:	LULC	Influence Zone		50 meter Buffer	
		Area(Hec)	Percentage Area	Area(Hec)	Percentage Area
1	Scrubland	1.68	15.37	0.8	8.7
2	Vegetation/Forest	9.25	84.63	8.39	91.3
	<b>Total Area</b>	<b>10.93</b>	<b>100</b>	<b>9.19</b>	<b>100</b>

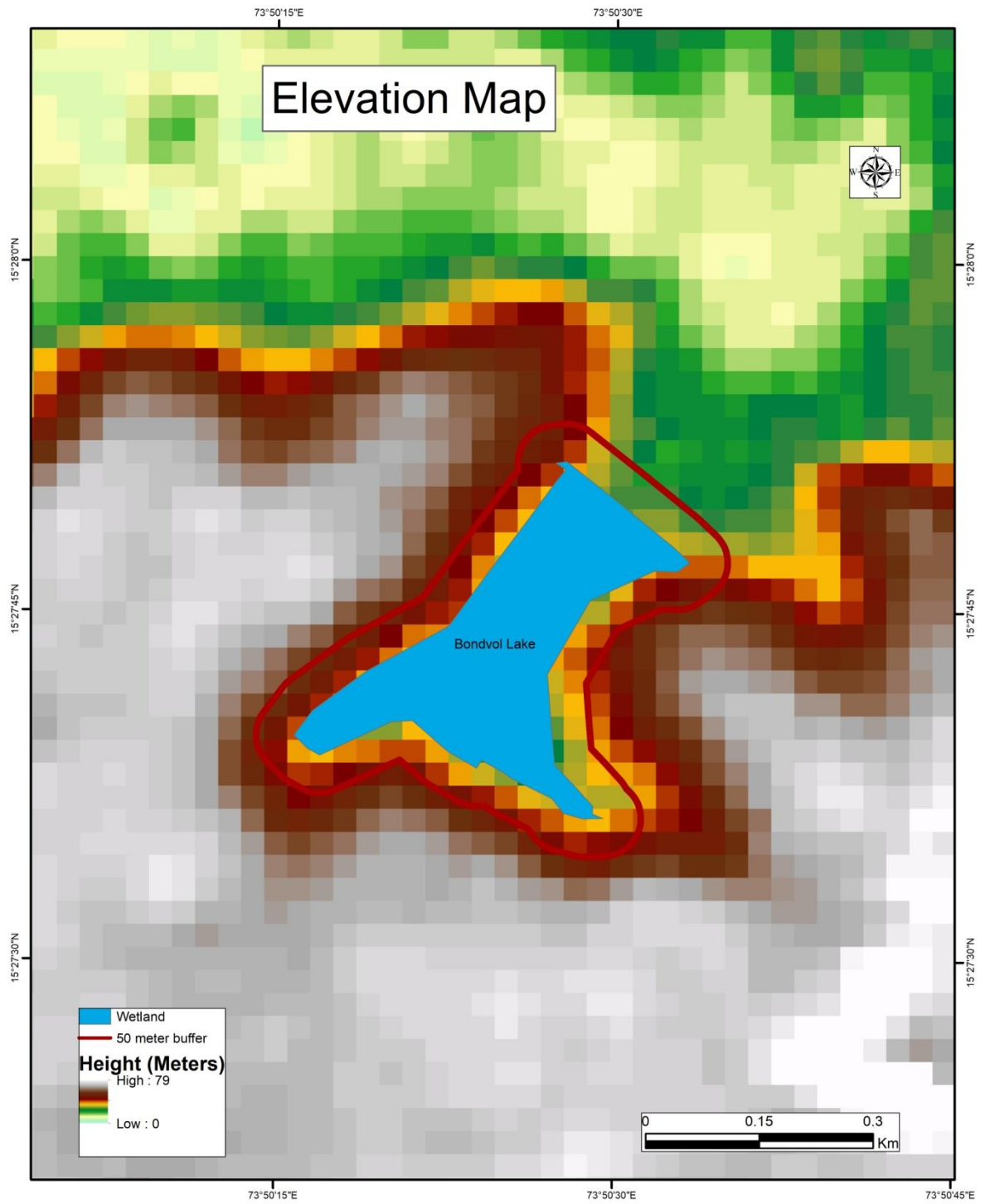
Annexure-I: LULC of the influence zone of Bondvol Lake



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



Annexure-III: Elevation (DEM) map of Bondvol Lake

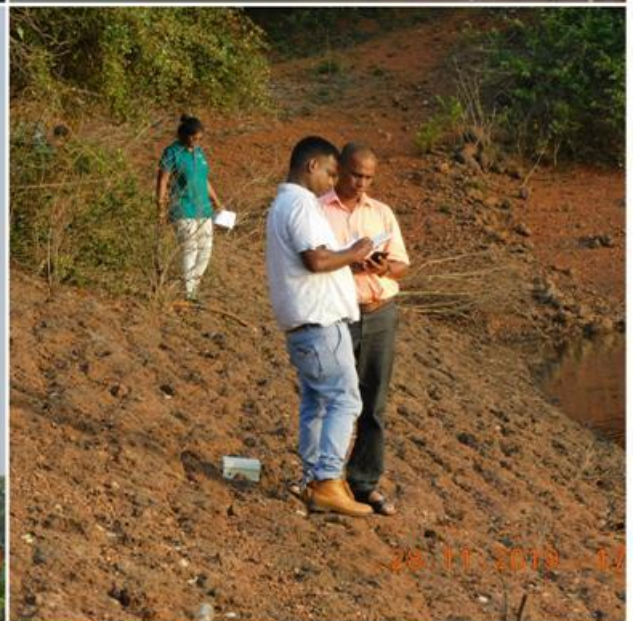




Annexure-V: Google image of Bondvol Lake



Annexure-VI: Site Photographs of Bondvol Lake





Annexure- VII: List of trees enumerated and indicative list of Flora found in the vicinity of Bondvol Lake

Sr.No	Local name of Flora	Botanical name	Number of Trees
1.	Aamado /Ambado	<i>Spondia mangifera</i>	10
2.	Aasali	<i>Microcos paniculata</i>	2
3.	Acacia (Australian)	<i>Acacia auriculiformis</i>	101
4.	Adki	<i>Rauwolfia serpentina</i>	2
5.	Arjun	<i>Terminalia arjuna</i>	112
6.	Ashok	<i>Saracca indica</i>	1
7.	Babal/Baban	<i>Acacia arabica</i>	1
8.	Badam	<i>Terminalia catappa</i>	4
9.	Bael/Bhel	<i>Aegle marmelos</i>	1
10.	Balo/Bayo	<i>Cassia fistula</i>	25
11.	Bedas Bhedas	<i>Syzygium caryophyllatum</i>	15
12.	Beni	<i>Thespesia populnea</i>	7
13.	Bhilamad	<i>Caryota urens</i>	379
14.	Bhirand	<i>Garcinia indica</i>	16
15.	Bibo	<i>Semicarpus anacardium</i>	96
16.	Bor	<i>Zizyphus mauritiana</i>	25
17.	Cashew	<i>Anacardium occidentale</i>	673
18.	Chafa/ Chaifa	<i>Plumeria sps</i>	2
19.	Chameli	<i>Jasmine sps</i>	1
20.	Chanado/ Chandado	<i>Macaranga peltata</i>	40
21.	Chara	<i>Buchanania lanzan</i>	11
22.	Chicku	<i>Manilkara zapota</i>	3
23.	Chinch / Tamarind	<i>Tamarindus indica</i>	27
24.	Chunna	<i>Zizyphus rugosa</i>	17
25.	Coconut	<i>Cocos nucifera</i>	130
26.	Custard apple/Aaater	<i>Annona reticulata</i>	1
27.	Dhaman/charcoal tree	<i>Greivia tilifolia</i>	5
28.	Dhavoruk	<i>Sterculia urens</i>	4
29.	Ghed/Gel	<i>Randia deumatorum</i>	7
30.	Ghoting	<i>Terminalia bellerica</i>	138
31.	Gulmohar	<i>Delonix regia</i>	7
32.	Hurro/Uro	<i>Sapium insigne</i>	324
33.	Jackfruit	<i>Artocarpus heterophyllus</i>	96
34.	Jambal	<i>Syzygium cumini</i>	26
35.	Kajaro Karo	<i>Strychnos nux-vomica</i>	257
36.	Kalamb	<i>Mitragyna parviflora</i>	2
37.	Kaner	<i>Zizyphus oenoplia</i>	1

38.	Karanj	<i>Derris Scandens</i>	1
39.	Karipatta	<i>Murraya koeingi</i>	2
40.	Karmal	<i>Dillenia pentagyna</i>	1
41.	Karvat/Kharvat	<i>Ficus asperrma</i>	142
42.	Kate Asan	<i>Bridelia retusa</i>	44
43.	Kel	<i>Musa paradisiaca</i>	2
44.	Kevan	<i>Helicteres isora</i>	142
45.	Khair	<i>Acacia catechu</i>	73
46.	Kinal/ Kindal	<i>Terminalia paniculate</i>	16
47.	Kudo/ Kaykudo	<i>Tabernamontana heyneana</i>	43
48.	Kumyo	<i>Careya arborea</i>	160
49.	MacadBhiran	<i>Carallia brachiate</i>	15
50.	Mad/Madi	<i>Areca catechu</i>	11
	Madat/Marat/ Raktredo/Hasan/ Crocodile bark tree	<i>Terminalia tomentosa</i>	146
51.			
52.	Mango	<i>Mangifera indica</i>	191
53.	Mashing	<i>Moringa oleifera</i>	1
54.	Moi	<i>Lannea coromandalica</i>	2526
55.	Nano	<i>Lagerstroemia lanceolata</i>	3
56.	Neem	<i>Azadirachta indica</i>	1
57.	Nirpanas	<i>Artocarpus altilis</i>	2
58.	Oval	<i>Mimusops elengi</i>	39
59.	Palpanas	<i>Annona muricate</i>	21
60.	Pangaro	<i>Erythrima indica</i>	108
61.	Parijat	<i>Nyctanthes arbor-tristis</i>	1
62.	Peepal	<i>Ficus religiosa</i>	5
63.	Phanas /Jackfruit	<i>Artocarpus heterophyllus</i>	101
64.	Phatarphad	<i>Glycosmis pentaphylla</i>	14
65.	Raintree	<i>Albizia saman</i>	32
	Raktredo/Hasan/Marat/ Crocodile bark tree	<i>Terminalia tomentosa</i>	155
66.			
67.	Rito	<i>Sapindus laurifolius</i>	1
68.	Rumod	<i>Ficus racemose</i>	2
69.	Saton	<i>Alstonia scholarias</i>	12
		<i>Bombax malabaricum/ceiba</i>	1005
70.	Savar		
71.	Shami	<i>Prosopia cineraria</i>	38
72.	Shivan	<i>Gmelina arborea</i>	35
73.	Sisum	<i>Dalbergia latifolia</i>	2
74.	Sona Phata	<i>Oroxylum indicum</i>	49
	Spathodia/Tulip tree/Pichkari	<i>Spathodia campanulata</i>	6
75.			

76.	Surang	<i>Mammea suriga</i>	10
77.	Taman	<i>Lagerstroemia parviflora</i>	7
78.	Teak/ Sal	<i>Tectona grandis</i>	27
79.	Tiki	<i>Cinnamomum zeylanica</i>	1
80.	Triphal	<i>Zanthoxylum rhetsa</i>	329
81.	Viral	<i>Leucaena leucocephala</i>	16
82.	Wad	<i>Ficus bengalensis</i>	3
83.	Zambo	<i>Xylia xylocarpa</i>	15
84.	Jungli/Miscellaneous		>313
<b>Total</b>			<b>8438</b>

#### Other prominent Herbs & Shrubs at Bondvol Lake:

Sr. No	Local name of Flora	Botanical Name
8.	Aduso	<i>Adathoda vasica</i>
12.	Aghado	<i>Achyranthes aspera</i>
5.	Asali	<i>Microcos paniculata</i>
10.	Bharmgi	<i>Clerodendrum indicum</i>
2.	Canna	<i>Carissa caranda</i>
17	Dudhshiri	<i>Hemidesmus indicus</i>
6.	Ghotvel	<i>Smilax zeylanica</i>
15.	Gundhurichi bhaji	<i>Centella asiatica</i>
11.	Nimgud/ Nirgundi	<i>Vitex negundo</i>
4.	Pitkoli	<i>Ixora coccinea</i>
14.	Punarnava	<i>Boerhavia diffusa</i>
9.	Rui	<i>Calotropis gigantea</i>
13	Suran	<i>Amorphophallus campanulatus</i>
3.	Taikilo	<i>Cassia tora</i>
1.	Uski	<i>Calicopteris floribunda</i>
16.	Wagchampho	<i>Gloriosa superba</i>
7.	Watakaka creeper	<i>Watakaka volubis</i>