3.15. VELLODE BIRD SANCTUARY

- **State / Union Territory:** Tamil Nadu
- **❖** Name and address of person (s) compiling this information:
- ▶ Dr. S. KANMANI, Professor and Director, Centre for Environmental Studies, Anna University, Chennai 25.
- ▶ Dr. SARANYA KUPPUSAMY, Visiting Professor, Centre for Environmental Studies, Anna University, Chennai 25.
- ▶ Dr. A. MERLINE SHEELA, Associate Professor, Centre for Environmental Studies, Anna University, Chennai 25.

Section 1: Identification, Location and Jurisdiction

- 1.1 Name of the Wetland: Vellode Birds Sanctuary or Vellode Kanmoi
- 1.2 Name of the Village (s), Tehsil (s), Municipal area (s): Mettuppalayam, Semandam Palayam, Sellappampalayam, Thalaiyakattur, Pungambadi, Thenmugam vellode, Vellode, Perundurai
- 1.3 Name of the District (s) in which Wetlands complex located: Erode
- 1.4 Geographical coordinates:

► Latitude: 11°15'06" N► Longitude: 77°39'06" E

1.5 Name of the Department/ Agency which has jurisdiction over Wetland/ Wetland complex: Forest Department

Section 2: Site Characteristics

2.1 Area of Wetland: 74.71 ha

2.2 *Wetland type*:

Category	Subcategory
✓ Natural (Inland)	✓ Permanent lakes
	☐ Seasonal/ intermittent lakes
	☐ Permanent streams/ creeks
	☐ Seasonal/ intermittent streams/ creeks
	□ Oxbow
	☐ River floodplain
	☐ Permanent freshwater marshes
	☐ Seasonal/ intermittent freshwater marshes
	☐ Shrub-dominated Wetlands
	☐ Tree-dominated Wetlands
	☐ Geothermal Wetlands

		☐ Karst and other subterranean hydrological systems				
□ Natural (Coastal)		☐ Coastal lagoon				
		☐ Estuary				
		☐ Intertidal mud, sand or salt flats				
		☐ Mangroves				
		☐ Coral reefs				
	uman-made	☐ Aquaculture pond				
		☐ Tank				
		☐ Saltpan				
		□ Dam/ Reservoir				
2.3	Depth (m): Average - 2; Maximum - 4.5					
2.4	Elevation (m above mean sea level): 100					
2.5	Water regimes					
	a) Main source of water					
	✓ Rainfall inflow from river					
	☐ Groundwater					
	✓ Catchment runoff					
	☐ Direct/ indirect inflow from riv	/er				
	☐ Others, please specify: Perump	pallam Canal				
	✓ Name of River/ Canal System	: Bhavani River (Perumpallam Canal)				
	b) Water performance					
	✓ Mostly permanent					
	☐ Mostly intermittent					
	c) Destination of water from Wetland					
	☐ Feeds groundwater river to sea					
	✓ To downstream catchment					
	d) Water pH					
	\square Acid (< 5.5)					
	☐ Circumneutral (5.5-7.4)					
	✓ Alkaline (> 7.4)					
	e) Water salinity					
	✓ Fresh (< 0.5 g/l)					
	☐ Brackish (0.5-30 g/l)					
	☐ Euhaline (30-40 g/l)					
	\Box Hypersaline (> 40 g/l)					
	□ Not known					

- f) Nutrients in water
 - □ Eutrophic
 - ☐ Mesotrophic
 - ✓ Oligotrophic
 - □ Not known
- 2.6 *Climatic setting*
 - a) Annual rainfall/ Snowfall (mm): 150.6
 - b) Temperature (°C) Minimum 13.05; Maximum 18.95
 - c) Humidity (%) Minimum 81.7; Maximum 88.4
- 2.7 Area of zone of influence (in ha): 6673.49 ha (with an irregular radius of 1.12 km)
- 2.8 *Major land use within zone of influence*

Land Use		Percentage
Forest	:	0%
Vegetation (Plantation)	:	7%
Agriculture	:	55%
Settlements (Rural)	:	26%
Settlements (Urban)	:	0%
Industrial	:	0%
Waterbody	:	1%
Waste Land	:	11%

2.9 *Map of Wetland complex and zone of influence:* Enclosed as Annexure 3.15 (Fig. 3.15.1-3.15.2)

Section 3: Biodiversity

- 3.1 Notable plant species present in Wetland: The Wetland is home to a diverse range of plant species, totaling 62 species (refer to Table 3.15.1 in Annexure 3.15).
- 3.2 Notable animal species present in Wetland: The Wetland supports a variety of animal species, with a total of 183 recorded species. This includes 3 mammal species, 7 reptile species, 8 amphibian species, 144 bird species, and 21 species of butterflies (refer to Table 3.15.2-3.15.3 in Annexure 3.15).
- 3.3 *Species of conservation significance:* Highlighted in Table 3.15.1-3.15.3
- 3.4 *Major plant invasive alien species:* The Wetland supports 7 plant invasive species (refer to Table 3.15.4 in Annexure 3.15).
- 3.5 *Major animal invasive alien species:* The Wetland supports 2 animal invasive species (refer to Table 15.5 in Annexure 15).

Section 4: Ecosystem Services

Importance	Relevance	Details
Source of drinking water for people living and around	☐ Yes ✓ No	
Source of water for agriculture	☐ Yes ✓ No	When it reaches its Full Supply level (FSL), the water may withdrawn for agriculture
Fisheries	☐ Yes ✓ No	
Cultivation of aquatic food plants	☐ Yes ✓ No	
For buffalo wallowing and use of domesticated animals	☐ Yes ✓ No	
Medicinal plants	✓ Yes □ No	Few Medicinal Plants are around the Wetland. (refer to Table 3.15.6 in Annexure 3.15)
Is a recreational site	✓ Yes □ No	Receives a good population of nature enthusiasts & Bird watching
Buffering communities from extreme events as floods and storms	☐ Yes ✓ No	
Groundwater recharge	✓ Yes □ No	Major source of ground water recharge
Water purification	☐ Yes ✓ No	
Acts as a sink for sediments	✓ Yes □ No	Substantial water flow from the surrounding watershed
Has significant cultural and religious values	✓ Yes □ No	There is a temple around the embankment of the Wetland
Is a site for recreation and tourism	✓ Yes □ No	Receives a good population of nature enthusiasts & Bird watching
Supports noteworthy plants species	☐ Yes ✓ No	
Support noteworthy animal species	☐ Yes ✓ No	
Site of high congregation of migratory water birds	✓ Yes □ No	Provides a suitable site for the high congregation of migratory water birds.
Supports life cycle of fish or amphibians	✓ Yes □ No	Almost 8 variety of amphibians were surviving

Mining	☐ Yes ✓ No	
Any other	☐ Yes ✓ No	

Section 5: Pre-Existing Rights and Privileges

Nature of right and privilege	Relevant for thesite	Does this negatively impact the Wetland's ecological health?	Brief description
Community Fishing (without any lease or permission from government department)		☐Yes ☐No ☐Not assessed	
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	
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	There is a temple around the embankment of the Wetland
Withdrawal of water for domestic use	□Yes ✓ No	☐Yes ☐No ☐Not assessed	

Withdrawal of water for	□Yes	□Yes	
agriculture or fisheries	√ No	□No	
		□Not assessed	
	□Yes	□Yes	
domestic animals	√ No	□No	
		□Not assessed	
Plying of boats	□Yes	□Yes	
	√ No	□No	
		□Not assessed	
Any other	□Yes	□Yes	
	√ No	□No	
		□Not assessed	

Section 6: Present and Potential Threats

Threat	Degree	Present/ Potential	Additional info.
Changes in water inflowand outflow	□High □Medium □Low	□ Present □ Potential	
Pollution	□High □Medium □Low	□ Present □ Potential	
Unsustainable harvest ofbiological resources	□High □Medium □Low	□ Present □ Potential	
Mining	□High □Medium □Low	□ Present □ Potential	
Siltation	□High □ Medium ✓ Low	✓ Present □ Potential	Substantial water flow from the surrounding watershed
Encroachment	□High □Medium □Low	□ Present □ Potential	
Spread of invasive species	□High	✓ Present	Listed in Table 3.15.4 in Annexure 3.15

	□Medium	☐ Potential	
	√ Low		
Any other, please list	□High	□Present	
	□Medium	□Potential	
	□Low		

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

Activity	Whether prohibited or regulated	Regulation within Wetlands zone of influence	If regulated indicates the level of regulation	Name of department/ agency responsible for regulation/ prohibition	Additional info.
Withdrawal of water / impoundment/diversion or any other hydrological intervention		□ Wetland/ Wetland complex boundary □ Zone of influence			
Harvesting of resources (living / non-living)		□ Wetland/ Wetland complex boundary □ Zone of influence			
Grazing		□ Wetland/ Wetland complex boundary □ Zone of influence			
Discharge of treated sewage/ effluent / wastewater		□ Wetland/ Wetland complex boundary □ Zone of influence			

Construction of boat jetties, and facilities for temporary use, as pantoon bridges	Wetland/ Wetland complex boundary		
	Zone of influence		
Aquaculture, agriculture and horticulture activities within the Wetland boundaries.	Wetland/ Wetland complex boundar Zone of		
	influence		
Any other, please list	Wetland/ Wetland complex boundary		
	Zone of influence		

Section 8: Activities Proposed to be permitted

Activity	Relevance	Within Wetlands or zoneof influence	Additional info.
Withdrawal of water for agriculture		☐ Wetland/ Wetlands complex boundary ✓ Zone of influence	May permitted, since the surrounding area is rich in agriculture

Section 9: Listing of Available Scientific Resources Used

- 1. Ahmad, N. (1980). Some aspects of economic resources of Sunderbans mangrove forests of Bangladesh. In P. Soepadmo (Ed.), *Mangrove environment: Research and management* (pp. 50-51). Report on UNESCO Asian Symposium, held at University of Malaya, Kuala Lumpur, Malaysia, 25-29 August 1980.
- 2. Anonymous. (1991). *India 1990: A reference annual*. Research and Reference Division, Ministry of Information and Broadcasting, Govt. of India, Delhi.
- 3. Anonymous. (1993). Directory of Indian Wetlands. World Wildlife Federation, New Delhi.
- 4. Anonymous. (1994). World Development Report. World Bank Development Report.
- 5. Chopra, R. (1985). The state of India's environment. Ambassador Press, New Delhi.
- 6. Choudhury, B.C. (2000). Conserving Wetlands: Emerging scenario. In R. Badola & B. M. Rathore (Eds.), *Proceedings of the workshop on conserving biodiversity in the 21st century*,

- through integrated conservation and development planning on a regional scale (pp. 131-138). LBSNA Mussorie and WII Dehradun.
- 7. Das, S., Behera, S.C., Kar, A., Narendra, P., & Guha, S. (1997). Hydrogeomorphological mapping in ground water exploration using remotely sensed data: A case study in Keonjhar District, Orissa. *Journal of the Indian Society of Remote Sensing*, 25, 247-250.
- 8. Das, K.K., Prasad, S.N., Roy, P.S., & Bhan, S.K. (1994). Mapping of potential crane habitat in Etawah and Mainpuri Districts (U.P.) using satellite remote sensing techniques. *A Project Report*: Indian Institute of Remote Sensing, Dehradun and Salim Ali Centre for

ANNEXURE 3.15

Fig 3.15.1. Zone of Influence of Vellode Bird Sanctuary

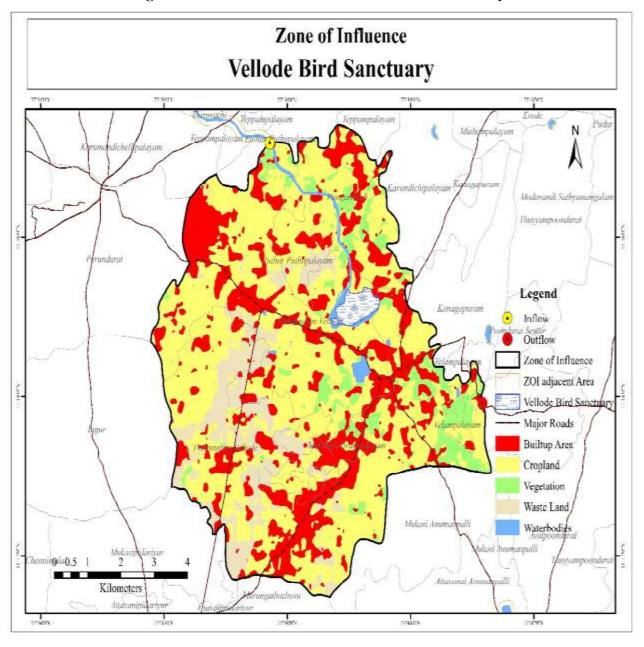


Fig 3.15.2. Map (2004 vs. 2024) and Land Use/ Land Cover of Vellode Bird Sanctuary

Map of the Wetland in 2010



Map of the Wetland in 2024



Land Use/ Land Cover of the Wetland

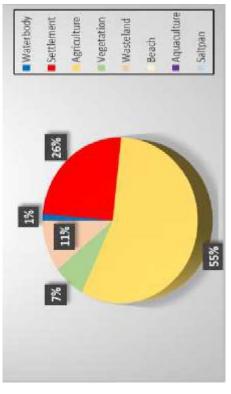


Table 3.15.1. IUCN Status of Floral Species in Vellode Bird Sanctuary

S. No.	Scientific Name of the Species	Family	Tamil Name	Habit	IUCN
1.	Abrus precatorius	Fabaceae	Kundumani	Climber	NE
2.	Abutilon indicum	Malvaceae	Thuthi	Shrub	LC
3.	Acacia nilotica	Fabaceae	Karuvel	Tree	LC
4.	Acalypha indica	Euphorbiaceae	Kuppaimeni	Herb	NE
5.	Acanthospermum hispidum	Compositae		Herb	NE
6.	Achyranthes aspera	Amaranthaceae	Nayurivi	Herb	NE
7.	Aerva lanata	Amaranthaceae	Peelai	Herb	NE
8.	Alangium salvifolium	Alangiaceae	Azhinjil	Tree	LC
9.	Albizia lebbeck	Mimosaceae	Vaagai	Tree	LC
10.	Albizia saman	Fabaceae	Rain tree	Tree	LC
11.	Alternanthera pungens	Amaranthaceae		Herb	NE
12.	Alternanthera sessilis	Amaranthaceae	Ponnanganni	Herb	NE
13.	Boerhavia diffusa	Nyctaginaceae	Mookarattai	Herb	NE
14.	Borassus flabellifer	Arecaceae	Panai	Tree	LC
15.	Brachiaria ramosa	Poaceae		Grass	NE
16.	Calotropis gigantea	Asclepiadaceae	Erukku	Shrub	NE
17.	Cardiospermum halicacabum	Sapindaceae	Mudakotthan	Herb	NE
18.	Chloris barbata	Poaceae	Kodaipul	Grass	NE
19.	Cleome viscosa	Capparidaceae	Nai vaelai	Herb	NE
20.	Commelina benghalensis	Commelinaceae	Kanaangozhai	Herb	LC
21.	Corchorus capsularis	Tiliaceae	Sanal	Herb	NE
22.	Cynodon dactylon	Poaceae	Aruhampul	Grass	NE
23.	Datura metal	Solanaceae	Karu Oomatthai	Herb	NE
24.	Digitaria abludens	Poaceae		Grass	NE
25.	Digitaria ciliaris	Poaceae		Grass	NE
26.	Eragrostis viscosa	Poaceae	-	Grass	LC

27.	Ficus benghalensis	Moraceae	Aal	Tree	LC
28.	Ficus hispida	Moraceae	Peyatthi	Tree	LC
29.	Ficus racemosa	Moraceae	Atthi	Tree	LC
30.	Ficus religiosa	Moraceae	Arasu	Tree	LC
31.	Hyptis suaveolens	Labiatae		Shrub	NE
32.	Ipomoea carnea	Convolvulaceae		Shrub	NE
33.	Ischaemum indicum	Poaceae	-	Grass	LC
34.	Jatropha gossypifolia	Euphorbiaceae	Kaatu-amanakku	Shrub	NE
35.	Justicia procumbens	Acanthaceae	Ottupillu	Herb	NE
36.	Justicia prostrata	Acanthaceae		Herb	NE
37.	Lantana camara	Verbenaceae	Unnichedi	Shrub	LC
38.	Lansium parasiticum	Meliaceae	Ootuuni maram	Tree	LC
39.	Leucas aspera	Labiatae	Thumbai	Herb	LC
40.	Mollugo cerviana	Molluginaceae	Parpaadagam	Herb	NE
41.	Morinda tinctoria	Rubiaceae	Manjanathi	Tree	NE
42.	Mukia leiosperma	Cucurbitaceae		Climber	NE
43.	Passiflora foetida	Passifloraceae	Poonaipidukku	Climber	NE
44.	Phyllanthus reticulatus	Euphorbiaceae	Inki pazham	Shrub	LC
45.	Senna occidentalis	Caesalpiniaceae	Thagarai	Shrub	NE
46.	Senna tora	Caesalpiniaceae	Oosi thagarai	Herb	NE
47.	Solanum trilobatum	Solanaceae	Thoodhuvalai	Herb	NE
48.	Spermacoce hispida	Rubiaceae	Nathaichoori	Herb	NE
49.	Sphaeranthus amaranthoides	Compositae	Siva karandhai	Herb	LC
50.	Streblus asper	Moraceae	Kuruvipala	Tree	LC
51.	Syzygium cumini	Myrtaceae	Naval	Tree	LC
52.	Terminalia arujuna	Combretaceae		Tree	LC
53.	Terminalia catappa	Combretaceae	Naattu Badaam	Tree	NE
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54.	Tephrosia purpurea	Fabaceae	Kozhinji	Herb	NE
55.	Thevetia peruviana	Apocynaceae	Ponnarali	Shrub	NE
56.	Tinospora cordifolia	Menispermaceae	Seendhil	Climber	NE
57.	Trachys muricata	Poaceae	-	Grass	LC
58.	Trianthema portulacastrum	Aizoaceae		Herb	NE
59.	Tridax procumbens	Compositae	Vettukkaaya-thazhai	Herb	LC
60.	Tylophora indica	Asclepiadaceae	Naippalai	Climber	NE
61.	Typha angustifolia	Typhaceae	Sambu	Herb	LC
62.	Xanthium indicum	Compositae	Marul oomatham	Herb	LC

Table 3.15.2. IUCN Status of Selected Fauna Species in Vellode Bird Sanctuary

S. No.	Scientific Name of the Species	Family	Common Name	IUCN	Present study
A. 1	Mammal		<u>'</u>	'	
1.	Funambulus pennantii	Sciuridae	Five striped Palm squirrel	LC	*
2.	Urva edwardsii	Herpestidae	Indian grey mongoose	LC	*
3.	Rattus argentiventer	Muridae	Field Rat	LC	*
В. Т	Reptile		·		
1.	Calotes versicolor	Agamidae	Oriental Garden lizard	LC	*
2.	Ptyas mucosa	Colubridae	Indian Rat Snake	LC	*
3.	Psammophilus dorsalis	Agamidae	Peninsular Rock Agama	LC	
4.	Xenochrophis piscator	Colubridae	Checkered keelback	LC	
5.	Ophisops leschenaultii	Lacertidae	Leschenault's snake-eye	LC	
6.	Sitana ponticeriana	Agamidae	Fan-throated lizard	LC	*
7.	Bungarus caeruleus	Elapidae	Common krait	LC	
C. 2	Amphibian	1	1	•	1

1.	Bufo scaber	Bufonidae	Fergusons toad	LC	*
2.	Duttaphrynus melanostictus	Bufonidae	Common indian toad	LC	*
3.	Kaloula taprobanica	Microhylidae	Painted frog	LC	*
4.	Uperodon systoma	Microhylidae	Marbled ballon frog	LC	*
5.	Polypedates maculatus	Rhacophoridae	Common tree frog	LC	*
6.	Euphlyctis cyanophlyctis	Dicroglossidae	Indian skipper frog	LC	*
7.	Fejervarya caperata	Dicroglossidae	Cricket frog	LC	*
8.	Fejervarya limnocharis	Dicroglossidae	Paddy field frog	LC	*
D. B	utterfly				
1.	Euthalia nais	Baronet	Nymphalidae	LC	*
2.	Tirumala limniace	Blue Tiger	Nymphalidae	LC	*
3.	Euploea core	Common crow	Nymphalidae	LC	*
4.	Catopsilia pomona	Common Emigrant	Pieridae	NE	*
5.	Melanitis leda	Common evening brown	Nymphalidae	LC	*
6.	Eurema hecabe	Common grass yellow	Pieridae	LC	*
7.	Delias eucharis	Common jezebel	Pieridae	LC	*
8.	Phalanta phalantha	Common leopard	Nymphalidae	LC	*
9.	Papilio demoleus	Common lime	Papilionidae	NE	*
10.	Papilio polytes	Common mormon	Papilionidae	NE	*
11.	Atrophaneura hector	Crimson rose	Papilionidae	LC	*
12.	Hypolimnas misippus	Danaid eggfly	Nymphalidae	LC	*
13.	Euchrysops cnejus	Gram Blue	Lycaenidae	LC	*
14.	Hypolimnas bolina	Great eggfly	Nymphalidae	LC	*
15.	Junonia atlites	Grey pansy	Nymphalidae	LC	*
16.	Junonia lemonias	Lemon pansy	Nymphalidae	NE	*
17.	Catopsilia pyranthe	Mottled Emigrant	Pieridae	NE	*
18.	Pseudozizeeria maha	Pale Grass Blue	Lycaenidae	NE	*
19.	Junonia almana	Peacock pansy	Nymphalidae	LC	*

20.	Belenoisaurota	Pioneer	Pieridae	LC	*
21.	Danaus chrysippus	Plain tiger	Nymphalidae	LC	*

LC – Least Concern; * - Yes

Table 3.15.3. IUCN Status of Bird Species in Vellode Bird Sanctuary

S. No.	Scientific Name of the Species	Common name	Habitat	IUCN	PS
1.	Accipiter badius	Shikra	Т	LC	*
2.	Acridotheres tristis	Common Myna	Т	LC	*
3.	Acrocephalus dumetorum	Blyth's Reed Warbler	Т	LC	*
4.	Actitis hypoleucos	Common Sandpiper	A	LC	*
5.	Aegithina tiphia	Common Iora	Т	LC	*
6.	Alauda gulgula	Oriental Skylark	T	LC	
7.	Alcedo atthis	Common Kingfisher	T	LC	*
8.	Amaurornis phoenicurus	White-breasted Waterhen	A	LC	
9.	Anas acuta	Northern Pintail	A	LC	
10.	Anas clypeata	Northern Shoveller	A	LC	
11.	Anas crecca	CommonTeal	A	LC	*
12.	Anas indicus	Bar-headed Goose	A	LC	
13.	Anas Penelope	EurasianWigeon	A	LC	
14.	Anas poecilorhyncha	Spot-billed Duck	A	LC	
15.	Anas querquedula	Garganey	A	LC	
16.	Anastomus oscitans	Asian Openbill	A	LC	*
17.	Anhinga melanogaster	Darter	A	LC	
18.	Anthus richardi	Richard's Pipit	D	LC	
19.	Anthus rufulus	Paddy-field Pipit	D	LC	*
20.	Apus affinis	House Swift	T	LC	
21.	Ardea cinerea	Grey Heron	A	LC	*
22.	Ardea purpurea	Purple Heron	A	LC	
23.	Ardeola grayii	Indian Pond Heron	A	LC	*
24.	Artamus fuscus	Ashy Woodswallow	T	LC	
25.	Athene brama	Spotted Owlet	T	LC	

26.	Bubulcus ibis	Cattle Egret	D	LC	*
27.	Burhinus oedicnemus	Eurasian Thick-knee	A	LC	
28.	Burhinus recurvirostris	Great Thick-knee	A	LC	
29.	Burhinus oedicnemus	Stone Curlew	A	LC	
30.	Butas turteesa	White-eyed Buzzard	T	LC	
31.	Buteo buteo	Common Buzzard	T	LC	
32.	Butorides striatus	Little Green Heron	A	LC	
33.	Cacomantis passerines	Indian Plaintive Cuckoo	Т	LC	
34.	Calidris ferruginea	Curlew sandpiper	A	LC	
35.	Calidris pugnax	Ruf	A	LC	
36.	Calidris minuta	Little Stint	A	LC	*
37.	Calidris temminckii	Temminck's stint	A	LC	
38.	Caprimulgus indicus	Indian Jungle Nightjar	Т	LC	
39.	Casmerodius albus	Great Egret	A	LC	
40.	Centropus sinensis	Greater Coucal	Т	LC	
41.	Ceryle rudis	Pied Kingfisher	D	LC	*
42.	Charadrius alexandrines	Kentish Plover	A	LC	
43.	Charadrius dubius	Little Ringed Plover	A	LC	
44.	Chlidonias hybridus	Whiskered Tern	A	LC	
45.	Chlidonias leucopterus	White-winged Tern	A	LC	
46.	Chroicocephalus brunnicephalus	Brown-headed Gull	A	LC	
47.	Chroicocephalus ridibundus	Black-headed gull	A	LC	
48.	Ciconia episcopus	Woolly-necked Stork	A	LC	
49.	Circus aeruginosus	Eurasian Marsh Harrier	D	LC	
50.	Circus macrourus	Pallid Harrier	Т	LC	
51.	Circus melanoleucos	Pied Harrier	Т	LC	
52.	Cisticola juncidis	Zitting Cisticola	Т	LC	
53.	Clamator jacobinus	Pied Cuckoo	Т	LC	
54.	Columba livia	Rock Pigeon	Т	LC	
55.	Copsychus saularis	Oriental Magpie Robin	Т	LC	
56.	Coracias benghalensis	Indian Roller	Т	LC	*

57.	Corvus macrorhynchus	Large-billed Crow	Т	LC	*
58.	Corvus splendens	House Crow	T	LC	*
59.	Cypsiurus balasiensis	Asian Palm Swift	Т	LC	*
60.	Dendrocitta vagabunda	Rufous Treepie	T	LC	*
61.	Dicaeum erythrorhynchos	Pale-billed Flowerpecker	T	LC	*
62.	Dicrurus adsimilis	Black Drongo	T	LC	*
63.	Dupetor flavicollis	Black Bittern	A	LC	
64.	Egretta garzetta	Little Egret	A	LC	*
65.	Elanus caeruleus	Black-shouldered Kite	T	LC	*
66.	Eremopterix grisea	Ashy-crowned Sparrow Lark	T	LC	
67.	Eudynamys scolopacea	Asian Koel	T	LC	*
68.	Falco tinnunculus	Common Kestrel	T	LC	
69.	Francolinus pondicerianus	Grey Francolin	T	LC	*
70.	Fulica atra	Coot	A	LC	
71.	Gallinago stenura	Pintail Snipe	A	LC	
72.	Gallicrex cinerea	Watercock	A	LC	
73.	Gallinula chloropus	Common Moorhen	A	LC	*
74.	Gelochelidon nilotica	Gull-billed Tern	A	LC	
75.	Glareola maldivarum	Oriental Pratincole	A	LC	
76.	Halcyon smyrnensis	White-throated Kingfisher	D	LC	*
77.	Haliastur indus	Brahminy Kite	T	LC	*
78.	Hierococcyx varius	Common Hawk Cuckoo	T	LC	
79.	Himantopus himantopus	Black-winged Stilt	A	LC	
80.	Hirundo rustica	Barn Swallow	T	LC	
81.	Hirundo smithii	Wire-tailed Swallow	T	LC	
82.	Hydrophasianus chirurgus	Pheasant-tailed Jacana	A	LC	
83.	Icthyophaga leucogaster	White-bellied sea eagle	T	LC	
84.	Ixobrychus cinnamomeus	Cinnamon Bittern	A	LC	
85.	Ixobrychus sinensis	Yellow Bittern	A	LC	
86.	Limosa limosa	Black-tailed Godwit	A	LC	
87.	Lonchura Malacca	Black-headed Munia	D	LC	

88.	Merops orientalis	Green Bee-eater	Т	LC	*
89.	Merops philippinus	Blue-tailed Bee-eater	Т	LC	
90.	Mesophoyx intermedia	Intermediate Egret	A	LC	
91.	Milvus migrans	Black Kite	Т	LC	*
92.	Mirafra affinis	Jerdon's Bushlark	Т	LC	*
93.	Motacilla flava	Yellow Wagtail	D	LC	
94.	Motacilla maderaspatensis	White-browed Wagtail	Т	LC	
95.	Mycteria leucocephala	Painted Stork	A	NT	*
96.	Nectarinia lotenia	Loten's Sunbird	Т	LC	
97.	Nycticorax nycticorax	Black-crowned Night Heron	A	LC	*
98.	Oriolus oriolus	Eurasean Golden Oriole	Т	LC	
99.	Orthotomus sutorius	Common Tailorbird	Т	LC	*
100.	Pavo cristatus	Indian Peafowl	Т	LC	*
101.	Passer domesticus	House Sparrow	Т	LC	*
102.	Pelecanus philippensis	Spot-billed Pelican	A	LC	*
103.	Phalacrocorax carbo	Great Cormorant	A	LC	
104.	Phalacrocorax fuscicollis	Indian Shag	A	LC	*
105.	Phalacrocorax niger	Little Cormorant	A	LC	*
106.	Phalaropus lobatus	Red-necked Phalarope	A	LC	
107.	Phoenicopterus ruber	Greater Flamingo	A	LC	
108.	Phaenicophaeus tristis	Green-billed Malkoha	Т	LC	
109.	Platalea leucorodia	Eurasian Spoonbill	A	LC	
110.	Plegadis falcinellus	Glossy Ibis	A	LC	*
111.	Ploceus manyar	Streaked Weaver	T	LC	
112.	Pluvialis squatarola	Grey Plover	A	LC	
113.	Porphyrio porphyria	Purple Swamphen	A	LC	*
114.	Prinia inornata	Plain Prinia	T	LC	*
115.	Prinia socialis	Ashy Prinia	T	LC	*
116.	Psittacula krameri	Rose-ringed Parakeet	T	LC	*
117.	Psilopogon haemacephalus	Coppersmith barbet	T	LC	*
118.	Pycnonotus cafer	Red-vented Bulbul	T	LC	*

119.	Pycnonotus jocosus	Red-whiskered Bulbul	Т	LC	
120.	Rostratula benghalensis	Greater Painted-snipe	A	LC	
121.	Saxicola caprata	Pied Bush Chat	Т	LC	*
122.	Saxicoloides fulicata	Indian Robin	Т	LC	*
123.	Spilornis cheela	Crested Serpent-Eagle	Т	LC	
124.	Sterna albifrons	Little Tern	A	LC	*
125.	Sterna anaethetus	Bridled Tern	A	LC	
126.	Sterna aurantia	River Tern	A	LC	*
127.	Sterna caspia	CaspianTern	A	LC	
128.	Streptopelia chinensis	Spotted Dove	Т	LC	*
129.	Sturnus pagodarum	Brahminy Starling	T	LC	*
130.	Tachybaptus ruficollis	Little Grebe	A	LC	*
131.	Tachymarptis melba	Alpine Swift	T	LC	
132.	Tephrodornis pondicerianus	Common Woodshrike	Т	LC	
133.	Terpsiphone paradise	AsianParadise-Flycatcher	Т	LC	
134.	Threskiornis melanocephalus	Oriental White Ibis	A	LC	
135.	Threskiornis melanocephalus	Black-headed Ibis	A	NT	*
136.	Tringa ochropus	Green Sandpiper	A	LC	*
137.	Tringa stagnatilis	Marsh Sandpiper	A	LC	*
138.	Turdoides affinis	Yellow-billed Babbler	Т	LC	
139.	Turnix suscitator	Common Buttonquail	Т	LC	
140.	Tyto alba	Barn Owl	Т	LC	*
141.	Upupa epops	Ноорое	Т	LC	
142.	Vanellus indicus	Red-wattled Lapwing	D	LC	*
143.	Vanellus malabaricus	Yellow-wattled Lapwing	D	LC	*
144.	Zoothera citrine	Orange-headed Thrush	Т	LC	

LC – Least Concern; * - Yes; T – Terrestrial; A – Aquatic; D – Dry/ desert; NT – Near Threatened

Table 3.15.4. IUCN Status of major plant invasive alien species in Vellode Bird Sanctuary

S. No.	Species	Family	Tamil Name
1.	Alternanthera sessilis	Amaranthaceae	Ponnanganni

2.	Hyptis suaveolens	Labiatae	
3.	Ipomoea carnea	Convolvulaceae	
4.	Lantana camara	Verbenaceae	Unnichedi
5.	Senna occidentalis	Caesalpiniaceae	Thagarai
6.	Typha angustifolia	Typhaceae	Sambu
7.	Xanthium indicum	Compositae	Marul oomatham

Table 3.15.5. IUCN Status of major animal invasive alien species in Vellode Bird Sanctuary

S. No.	Species	Family	Tamil Name
1.	Oreochromis species	Cichlidae	Nile Tilapia
2.	Clarias gariepinus	Clariidae	Afrikka Perung Kolli Meen

Table 3.15.6. IUCN Status of major medicinal plant species in Vellode Bird Sanctuary

S.No	Species	Family	Tamil Name	Habit
1.	Abrus precatorius	Fabaceae	Kundumani	Climber
2.	Abutilon indicum	Malvaceae	Thuthi	Shrub
3.	Acalypha indica	Euphorbiaceae	Kuppaimeni	Herb
4.	Acanthospermum hispidum	Compositae		Herb
5.	Achyranthes aspera	Amaranthaceae	Nayurivi	Herb
6.	Aerva lanata	Amaranthaceae	Peelai	Herb
7.	Borassus flabellifer	Arecaceae	Panai	Tree
8.	Cardiospermum halicacabum	Sapindaceae	Mudakotthan	Herb
9.	Cynodon dactylon	Poaceae	Aruhampul	Grass
10.	Datura metal	Solanaceae	Karu Oomatthai	Herb
11.	Mukia leiosperma	Cucurbitaceae		Climber
12.	Solanum trilobatum	Solanaceae	Thoodhuvalai	Herb
13.	Tephrosia purpurea	Fabaceae	Kozhinji	Herb
14.	Tinospora cordifolia	Menispermaceae	Seendhil	Climber
15.	Tridax procumbens	Compositae	Vettukkaaya-thazhai	Herb
16.	Tylophora indica	Asclepiadaceae	Naippalai	Climber

CHECK LIST

- ✓ Responsible agency has been clearly identified and details of contact person included
- ✓ Wetland/Wetlands complex boundary has been delineated using GIS and firmed up by adequate ground truthing
- ✓ Wetland/Wetlands complex map has been provided at required scale
- ✓ Zone of influence has been delineated and included in Wetland map or a separate map
- ✓ Wetland zone of influence is sufficient to manage all activities
- ✓ Site's importance have been listed, and for major categories, justification provided
- ✓ Site's biodiversity values are listed, and for major categories, justification provided
- ✓ List of pre-existing rights and privileges provided
- ✓ Consistency or, inconsistency of pre-existing rights and privileges indicated to be best of available knowledge
- ✓ Threats to site listed, and for major categories details provided
- ✓ Activities prohibited, beyond those already listed in Rule 4 (2) have been mentioned
- ✓ List of activities to be regulated within Wetlands and zone of influence is provided
- ✓ List of activities to be permitted is provided