

3.19. SUCHINDRAM THEROOR WETLAND COMPLEX

❖ **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:* Suchindram Theroor Wetland Complex or Suchindram Kulam Wetland
- 1.2 *Name of the Village (s), Tehsil (s), Municipal area (s):* Suchindram
- 1.3 *Name of the District (s) in which Wetlands complex located:* Kanyakumari
- 1.4 *Geographical coordinates:*
 - ▶ Latitude: 8°9'03" N
 - ▶ Longitude: 77°27'14" 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:* 99.62 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
☒ Human-made	☐ Aquaculture pond ☐ Tank ☐ Saltpan ☒ Dam/ Reservoir

2.3 *Depth (m)*: Average - 2.5; Maximum - 4

2.4 *Elevation (m above mean sea level)*: 15

2.5 *Water regimes*

a) Main source of water

- ☒ Rainfall inflow from river
- ☐ Groundwater
- ☐ Catchment runoff
- ☐ Direct/ indirect inflow from river
- ☒ Others, please specify: receives water from the Kodaiyur river
- ☐ Name of River/ Canal System

b) Water performance

- ☒ Mostly permanent
- ☐ Mostly intermittent

c) Destination of water from Wetland

- ☒ Feeds groundwater river to sea
- ☐ To downstream catchment

d) Water pH

- ☐ 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)
- ☐ Hypersaline (> 40 g/l)
- ☐ Not known

- f) Nutrients in water
- ☐ Eutrophic
 - ☒ Mesotrophic
 - ☐ Oligotrophic
 - ☐ Not known

2.6 *Climatic setting*

- a) Annual rainfall/ Snowfall (mm): 361.8
 b) Temperature (°C) Minimum 24.15 ; Maximum 34.9
 c) Humidity (%) Minimum 77.2 ; Maximum 80.6

2.7 *Area of zone of influence (in ha):* 8673.5 ha (with an irregular radius of 5.2 km)

2.8 *Major land use within zone of influence*

Land Use	Percentage
Forest	0%
Vegetation (Plantation)	17%
Agriculture	27%
Settlements (Rural)	51%
Settlements (Urban)	0%
Industrial	0%
Waterbody	2%
Waste Land	3%

2.9 *Map of Wetland complex and zone of influence:* Enclosed as Annexure 3.19 (Fig. 3.19.1-3.19.2)

Section 3: Biodiversity

- 3.1 *Notable plant species present in Wetland:* The Wetland is home to a diverse range of plant species, totaling 105 species. (refer to Table 3.19.1 in Annexure 3.19).
- 3.2 *Notable animal species present in Wetland:* The Wetland supports a variety of animal species, with a total of 123 recorded species. This includes 3 mammal species, 7 reptile species, 8 amphibian species, 94 bird species, and 11 species of butterflies (refer to Table 3.19.2-3.19.3 in Annexure 3.19).
- 3.3 *Species of conservation significance:* Highlighted in Table 3.19.1-3.19.3
- 3.4 *Major plant invasive alien species:* The Wetland supports 8 plant invasive species (refer to Table 3.19.4 in Annexure 3.19).
- 3.5 *Major animal invasive alien species:* Not available.

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	
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 around the Wetland. Which is listed in Table 3.19.5 in Annexure 3.19
Is a recreational site	☐ Yes ☒ No	
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	
Has significant cultural and religious values	☒ Yes ☐ No	There is a temple around the Wetland.
Is a site for recreation and tourism	☐ Yes ☒ No	
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	

Mining	☐ Yes ☒ No	
Any other	☐ Yes ☒ No	

Section 5: Pre-Existing Rights and Privileges

Nature of right and privilege	Relevant for the site	Does this negatively impact the Wetland's ecological health?	Brief description
Community Fishing (without any lease or permission from government department)	☐ Yes ☒ No	☐ 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 Wetland
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	

Bathing or wallowing of domestic animals	☐ Yes ☒ No	☐ Yes ☐ No ☐ Not assessed	
Plying of boats	☐ Yes ☒ No	☐ Yes ☐ No ☐ Not assessed	
Any other	☐ Yes ☒ No	☐ Yes ☐ No ☐ Not assessed	

Section 6: Present and Potential Threats

Threat	Degree	Present/ Potential	Additional info.
Changes in water inflow and outflow	☐ High ☐ Medium ☐ Low	☐ Present ☐ Potential	
Pollution	☐ High ☐ Medium ☒ Low	☒ Present ☒ Potential	Household Sewage discharge & Plastics around the bund of Wetland complex
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	
Increased use of Pesticides and	☐ High	☐ Present	

Fertilizer	☐ Medium ☐ Low	☐ Potential	
------------	---	------------------------------------	--

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	Prohibited	☒ Wetland/ Wetland complex boundary ☐ Zone of influence			Household Sewage discharge

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 boundary ☐ Zone of influence			
Any others		☐ Wetland/ Wetland complex boundary ☐ Zone of influence			

Section 8: Activities Proposed to be permitted

Activity	Relevance	Within Wetlands or zone of influence	Additional info.
		☐ Wetland/ Wetlands complex boundary ☐ Zone of influence	

Section 9: Listing of Available Scientific Resources Used

1. Aengals, R., Sathish Kumar, V.M., Palot, M.J., & Ganesh, S.R. (2018). *A checklist of reptiles of India* (Version 3.0). 35 pp. Available at www.zsi.gov.in (Last update: May 2018).
2. Ali, S. (2002). *The book of Indian birds* (13th Revised Edition). Oxford University Press, New Delhi.
3. Balachandran, S. (1998). Migratory, threatened and rare birds of Kanyakumari District. In R.S. Lal Mohan (Ed.), *Proceedings of the Seminar on Endangered Fauna of Kanyakumari District, Tamil Nadu* (pp. 38-39).
4. Bibby, C.J., Burgess, N.D., & Hill, D.A. (1993). *Bird census techniques*. Academic Press Limited, London.
5. BirdLife International. (2024). Important Bird Area factsheet: Suchindram Therur, Vembanoor. Downloaded from <https://datazone.birdlife.org/site/factsheet/suchindram-therur-vembanoor-iba-india> on 07/08/2024.

6. Gamble, J.S., & Fischer, C.E.C. (1915-1935). *Flora of the Presidency of Madras*. Adlard and Son, London. pp. 1-3.
7. Grimmet, R., Inskipp, C., & Inskipp, T. (2000). *Pocket guide to the birds of the Indian subcontinent*. Oxford University Press, New York.
8. Grubh, R., & Grubh, S. (1989). *Suchindram Kulam: A waterbird sanctuary for Kumari District*. Bombay Natural History Society, Mumbai.
- Wetlands International. (2002). *Waterbirds population estimates: Third Edition*. Wetlands International Global Series No. 12. Wageningen, the Netherlands.
9. Henry, A.N., Chithra, V.N., & Balakrishnan, P. (1989). *Flora of Tamil Nadu India*. Series 1: Analysis, Vol. III. Botanical Survey of India, Coimbatore.
10. Ratnam, K. *Birds of Tamil Nadu*.
11. Kamalakannan, M., & Nameer, P.O. (2019). A checklist of mammals of Tamil Nadu, India. *Journal of Threatened Taxa*, 11(8), 13992–14009. <https://doi.org/10.11609/jott.4705.11.8.13992-14009>
12. Kehimkar, I. (2008). *The book of Indian butterflies*. Bombay Natural History Society.
13. Manakadan, R., & Kannan, V. (2001-2002). A study of Spot-billed Pelicans *Pelecanus philippensis* with special reference to its conservation. *Annual Report, Bombay Natural History Society*.
14. Mathew, K.M. (1981). *The material for the flora of the Tamilnadu Carnatic*. Madras, India.
15. Mathew, K.M. (1982). *Illustrations on the flora of the Tamilnadu Carnatic* (Vol. II). The Diocesan Press, Madras, India.
16. Mathew, K.M. (1983). *The flora of Tamilnadu Carnatic* (Vol. III). The Diocesan Press, Madras, India.
17. Mathew, K.M. (1988). *Further illustrations on the flora of the Tamilnadu Carnatic* (Vol. IV). The Diocesan Press, Madras, India.
18. Nair, N.C., & Henry, A.N. (1983). *Flora of Tamil Nadu, India. Series 1, Vol. 1*. Botanical Survey of India, Southern Circle, Coimbatore. pp. 1-184.
19. Sridharan, N., Somasundaram, S., Thiyakesan, K., & Vijayan, L. (2011). Status of Wetland birds in Kanyakumari, Thanjavur, Cuddalore, and Nagapattinam districts of Tamil Nadu, India. *Indian Forester*, 137(10), 1177–1182.

ANNEXURE 3.19

Fig. 3.19.1. Zone of Influence of Suchindram Wetland

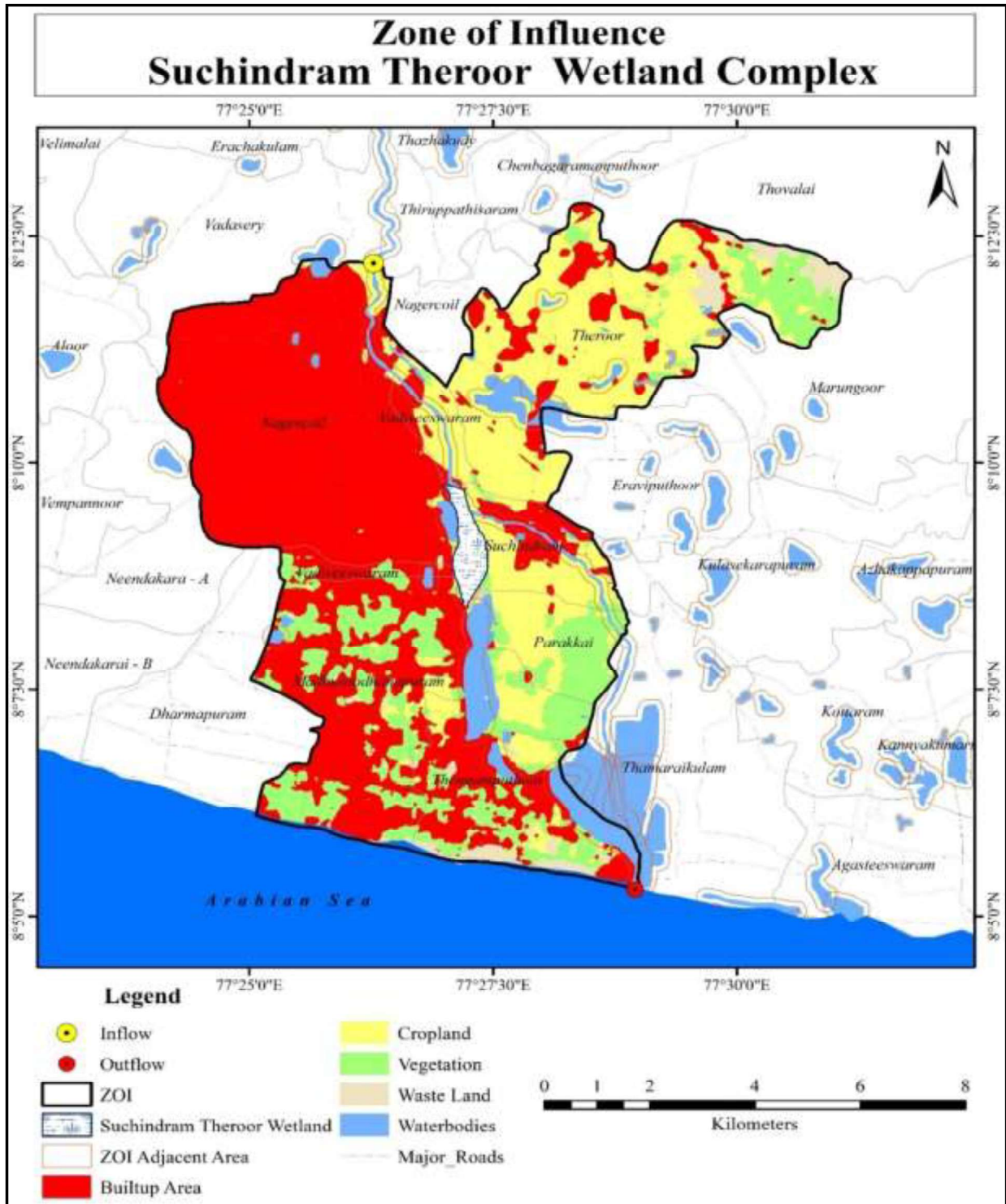


Fig. 3.19.2. Map (2014 vs. 2024) and Land Use/ Land Cover of Suchindram Wetland

Map of the Wetland in 2014



Map of the Wetland in 2024



Land Use/ Land Cover of the Wetland

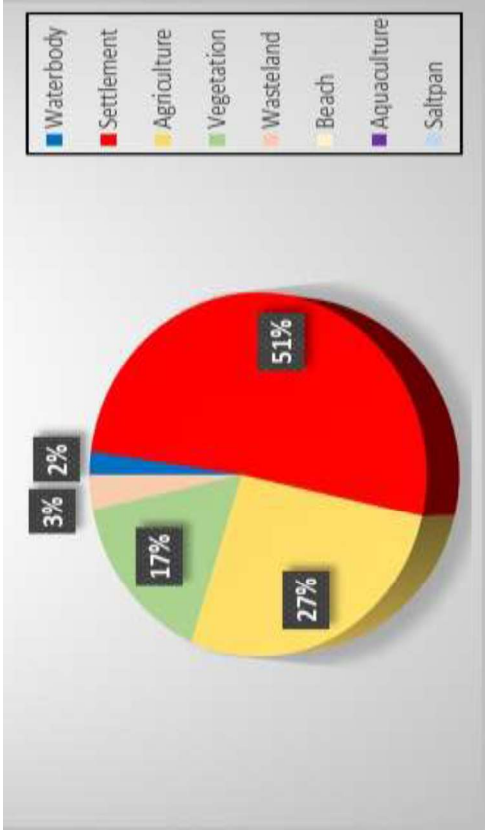


Table 3.19.1. IUCN Status of Floral Species in Suchindram Wetland

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

26.	<i>Ficus recemosa</i>	Moraceae	Cluster fig	Tree	LC
27.	<i>Ficus religiosa</i>	Moraceae	Arasamaram	Tree	LC
28.	<i>Hyptis suaveolens</i>	Labiatae		Shrub	NE
29.	<i>Ipomoea carnea</i>	Convolvulaceae		Shrub	NE
30.	<i>Ipomoea pes-caprae</i>	Convolvulaceae	Attukkal	Climber	LC
31.	<i>Isachne miliacea</i>	Poaceae	-	Grass	LC
32.	<i>Ischaemum indicum</i>	Poaceae	-	Grass	LC
33.	<i>Jatropha gossypifolia</i>	Euphorbiaceae	Kaatu-amanakku	Shrub	NE
34.	<i>Justicia procumbens</i>	Acanthaceae	Ottupillu	Herb	NE
35.	<i>Justicia prostrata</i>	Acanthaceae		Herb	NE
36.	<i>Lantana camara</i>	Verbenaceae	Unnichedi	Shrub	LC
37.	<i>Leptochloa fusca</i>	Poaceae	Mandaipul	Grass	LC
38.	<i>Leucas aspera</i>	Labiatae	Thumbai	Herb	LC
39.	<i>Mollugo cerviana</i>	Molluginaceae	Parpaadagam	Herb	NE
40.	<i>Morinda tinctoria</i>	Rubiaceae	Manjanathi	Tree	NE
41.	<i>Mukia leiosperma</i>	Cucurbitaceae		Climber	NE
42.	<i>Passiflora foetida</i>	Passifloraceae	Poonaipidukku	Climber	NE
43.	<i>Phyllanthus reticulatus</i>	Euphorbiaceae	Inki pazham	Shrub	LC
44.	<i>Santalum album</i>	Santalaceae	Chanthanam	Tree	LC
45.	<i>Senna occidentalis</i>	Caesalpiniaceae	Thagarai	Shrub	NE
46.	<i>Senna tora</i>	Caesalpiniaceae	Oosi thagarai	Herb	NE
47.	<i>Solanum trilobatum</i>	Solanaceae	Thoodhuvalai	Herb	NE
48.	<i>Spermacoce hispida</i>	Rubiaceae	Nathaichoori	Herb	NE
49.	<i>Sphaeranthus amaranthoides</i>	Compositae	Siva karandhai	Herb	LC
50.	<i>Tephrosia purpurea</i>	Fabaceae	Kozhinji	Herb	NE
51.	<i>Thevetia peruviana</i>	Apocynaceae	Ponnarali	Shrub	NE
52.	<i>Tinospora cordifolia</i>	Menispermaceae	Seendhil	Climber	NE

53.	<i>Trachys muricata</i>	Poaceae	-	Grass	LC
54.	<i>Trianthema portulacastrum</i>	Aizoaceae		Herb	NE
55.	<i>Tridax procumbens</i>	Compositae	Vettukkaaya-thazhai	Herb	LC
56.	<i>Tylophora indica</i>	Asclepiadaceae	Naippalai	Climber	NE
57.	<i>Typha angustifolia</i>	Typhaceae	Sambu	Herb	LC
58.	<i>Xanthium indicum</i>	Compositae	Marul oomatham	Herb	LC

Aquatic Flora			
S. No.	Botanical Name	Life form	Family
Pteridophytes			
1.	<i>Azolla pinnata R.Br.</i>	Floating	Salviniaceae
2.	<i>Ceratopteris thalictroides (L.) Brongn.</i>	Floating	Parkeriaceae
3.	<i>Marsilia minutta L</i>	Emergent anchored	Marsileaceae
4.	<i>Hygrophila auriculata (Sch.) Heine</i>	Emergent anchored	Acanthaceae
5.	<i>Alternanthera sessilis (L.) R. Br. ex DC.</i>	Emergent anchored	Amaranthaceae
6.	<i>Alternanthera pungens Kunth.</i>	Emergent anchored	
7.	<i>Limnophyton obtusifolium (L.) Miq.</i>	Floating	Alismataceae
8.	<i>Aponogeton natans (L.) Engl. & K.Krause</i>	Floating leaved anchored	Aponogetonaceae
9.	<i>Pistia stratiotes L.</i>	Floating	Araceae
10.	<i>Wolffia globosa (Roxb.) Hartog & Plas</i>	Floating	
11.	<i>Spirodela polyrrhiza (L.) Schleid.</i>	Floating	
12.	<i>Eclipta prostrata (L.) L.</i>	Emergent anchored	Asteraceae
13.	<i>Ipomoea aquatica Forssk.</i>	Floating leaved anchored	Convolvulaceae
14.	<i>Ipomoea carnea Jaeg.</i>	Emergent anchored	
15.	<i>Ipomoea obscura (L.) Ker. G.</i>	Floating leaved anchored	
16.	<i>Cyperus compressus L.</i>	Emergent anchored	
17.	<i>Cyperus halpan L.</i>	Emergent anchored	
18.	<i>Cyperus iria L.</i>	Emergent anchored	

19.	<i>Cyperus rotundus L.</i>	Emergent anchored	Cyperaceae
20.	<i>Fimbristylis aestivalis (Retz.) Vahl.</i>	Emergent anchored	
21.	<i>Kyllinga squamulata Vahl.</i>	Emergent anchored	
22.	<i>Rhynchospora corymbosa (L.) Bri.</i>	Emergent anchored	
23.	<i>Hydrilla verticillata (L.f.) Royle</i>	Submerged anchored	Hydrocharitaceae
24.	<i>Ottelia alismoides (L.) Pers.</i>	Submerged anchored	
25.	<i>Vallisneria natans (Lour.) H.Hara</i>	Submerged anchored	
26.	<i>Nechamandra alternifolia (Roxb. ex Wight) Thwaites</i>	Submerged anchored	
27.	<i>Najas graminea Delile</i>	Submerged anchored	
28.	<i>Najas indica (Willd.) Cham.</i>	Submerged anchored	
29.	<i>Najas minor All.</i>	Submerged anchored	
30.	<i>Lemna gibba L.</i>	Floating	Lemnaceae
31.	<i>Nymphoides hydrophylla (Lour.) K.</i>	Floating leaved anchored	Menyanthaceae
32.	<i>Neptunia oleracea Lour.</i>	Floating	Mimosaceae
33.	<i>Nelumbo nucifera Gaertn.</i>	Floating leaved anchored	Nelumbonaceae
34.	<i>Nymphaea nouchali Burm. f.</i>	Floating leaved anchored	Nymphaeaceae
35.	<i>Nymphaea pubescens Willd.</i>	Floating leaved anchored	
36.	<i>Ludwigia adscendens (L.) Hara</i>	Emergent anchored	Onagraceae
37.	<i>Ludwigia perennis L.</i>	Emergent anchored	
38.	<i>Panicum repens L.</i>	Emergent anchored	Poaceae
39.	<i>Saccharum spontaenum L.</i>	Emergent anchored	
40.	<i>Polygonum glabrum Willd.</i>	Emergent anchored	Polygonaceae
41.	<i>Polygonum barbatum L.</i>	Emergent anchored	
42.	<i>Eichhornia crassipes (Mart.) S.L.</i>	Floating	Pontederiaceae
43.	<i>Monochoria vaginalis (Burm. f.) C. Presl ex Kunth.</i>	Floating	

44.	<i>Trapa natans L.</i>	Floating	Trapaceae
45.	<i>Typha angustata B. and Chaub.</i>	Emergent anchored	Typhaceae
46.	<i>Clerodendrum inerme (L.) Gae.</i>	Floating	Verbenaceae

Table 3.19.2. IUCN Status of Selected Fauna Species in Suchindram Wetland

S. No.	Scientific Name of the Species	Family	Common Name	IUCN	Present study
<i>A. Mammal</i>					
1.	<i>Funambulus pennantii</i>	Sciuridae	Five striped Palm squirrel	LC	*
2.	<i>Urva edwardsii</i>	Herpestidae	Indian grey mongoose	LC	*
3.	<i>Rattus argentiventer</i>	Muridae	Field Rat	LC	*
<i>B. Reptile</i>					
1.	<i>Calotes versicolor</i>	Agamidae	Oriental Garden lizard	LC	*
2.	<i>Ptyas mucosa</i>	Colubridae	Indian Rat Snake	LC	*
3.	<i>Psammophilus dorsalis</i>	Agamidae	Peninsular Rock Agama	LC	
4.	<i>Xenochrophis piscator</i>	Colubridae	Checkered keelback	LC	
5.	<i>Ophisops leschenaultii</i>	Lacertidae	Leschenault's snake-eye	LC	
6.	<i>Sitana ponticeriana</i>	Agamidae	Fan-throated lizard	LC	*
7.	<i>Bungarus caeruleus</i>	Elapidae	Common krait	LC	
<i>C. Amphibian</i>					
18.	<i>Bufo scaber</i>	Bufonidae	Fergusons toad	LC	*
19.	<i>Duttaphrynus melanostictus</i>	Bufonidae	Common Indian toad	LC	*
20.	<i>Kaloula taprobanica</i>	Microhylidae	Painted frog	LC	*
21.	<i>Uperodon systoma</i>	Microhylidae	Marbled ballon frog	LC	*
22.	<i>Polypedates maculatus</i>	Rhacophoridae	Common tree frog	LC	*
23.	<i>Euphlyctis cyanophlyctis</i>	Dicroglossidae	Indian skipper frog	LC	*

24.	<i>Fejervarya caperata</i>	Dicroglossidae	Cricket frog	LC	*
25.	<i>Fejervarya limnocharis</i>	Dicroglossidae	Paddy field frog	LC	*
D. Butterfly					
24.	<i>Euploea core</i>	Nymphalidae	Common crow	LC	PS
25.	<i>Catopsilia pomona</i>	Pieridae	Common Emigrant	NE	*
26.	<i>Melanitis leda</i>	Nymphalidae	Common evening brown	LC	*
27.	<i>Eurema hecabe</i>	Pieridae	Common grass yellow	LC	*
28.	<i>Papilio demoleus</i>	Papilionidae	Common lime	NE	*
29.	<i>Papilio polytes</i>	Papilionidae	Common mormon	NE	*
30.	<i>Junonia lemonias</i>	Nymphalidae	Lemon pansy	NE	*
31.	<i>Catopsilia pyranthe</i>	Pieridae	Mottled Emigrant	NE	*
32.	<i>Pseudozizeeria maha</i>	Lycaenidae	Pale Grass Blue	NE	*
33.	<i>Junonia almana</i>	Nymphalidae	Peacock pansy	LC	*
34.	<i>Danaus chrysippus</i>	Nymphalidae	Plain tiger	LC	*

LC – Least Concern; * - Yes

Table 3.19.3. IUCN Status of Bird Species in Suchindram Wetland

S. No.	Scientific Name of the Species	Common name	Habitat	IUCN	PS
1.	<i>Acridotheres tristis</i>	Common Myna	T	LC	*
2.	<i>Actitis hypoleucos</i>	Common Sandpiper	D	LC	*
3.	<i>Alauda gulgula</i>	Oriental Skylark	T	LC	
4.	<i>Alcedo atthis</i>	Common Kingfisher	T	LC	*
5.	<i>Amaurornis phoenicurus</i>	White-breasted Waterhen	A	LC	
6.	<i>Anas poecilorhyncha</i>	Spot-billed Duck	A	LC	
7.	<i>Anastomus oscitans</i>	Asian Openbill	A	LC	
8.	<i>Anhinga melanogaster</i>	Darter	A	LC	*
9.	<i>Anthus rufulus</i>	Paddy-field Pipit	D	LC	*
10.	<i>Ardea cinerea</i>	Grey Heron	A	LC	*
11.	<i>Ardea purpurea</i>	Purple Heron	A	LC	
12.	<i>Ardeola grayii</i>	Indian Pond Heron	A	LC	*

13.	<i>Bubulcus ibis</i>	Cattle Egret	D	LC	*
14.	<i>Casmerodius albus</i>	Great Egret	A	LC	
15.	<i>Ceryle rudis</i>	Pied Kingfisher	D	LC	*
16.	<i>Charadrius dubius</i>	Little Ringed Plover	A	LC	
17.	<i>Chlidonias hybridus</i>	Whiskered Tern	A	LC	
18.	<i>Circus macrourus</i>	Pallid Harrier	T	LC	
19.	<i>Circus melanoleucos</i>	Pied Harrier	T	LC	
20.	<i>Cisticola juncidis</i>	Zitting Cisticola	T	LC	
21.	<i>Clamator jacobinus</i>	Pied Cuckoo	T	LC	
22.	<i>Columba livia</i>	Rock Pigeon	T	LC	
23.	<i>Copsychus saularis</i>	Oriental Magpie Robin	T	LC	
24.	<i>Coracias benghalensis</i>	Indian Roller	T	LC	*
25.	<i>Corvus macrorhynchos</i>	Large-billed Crow	T	LC	*
26.	<i>Corvus splendens</i>	House Crow	T	LC	*
27.	<i>Cypsiurus balasiensis</i>	Asian Palm Swift	T	LC	*
28.	<i>Dendrocitta vagabunda</i>	Rufous Treepie	T	LC	*
29.	<i>Dicrurus adsimilis</i>	Black Drongo	T	LC	*
30.	<i>Dinopium benghalense</i>	Black-rumped Flameback	T	LC	
31.	<i>Dupetor flavicollis</i>	Black Bittern	A	LC	
32.	<i>Egretta garzetta</i>	Little Egret	A	LC	*
33.	<i>Elanus caeruleus</i>	Black-shouldered Kite	T	LC	*
34.	<i>Eremopterix grisea</i>	Ashy-crowned Sparrow Lark	T	LC	
35.	<i>Eudynamis scolopacea</i>	Asian Koel	T	LC	*
36.	<i>Falco tinnunculus</i>	Common Kestrel	T	LC	
37.	<i>Francolinus pondicerianus</i>	Grey Francolin	T	LC	*
38.	<i>Fulica atra</i>	Coot	A	LC	
39.	<i>Gallicrex cinerea</i>	Watercock	A	LC	
40.	<i>Gallinula chloropus</i>	Common Moorhen	A	LC	*
41.	<i>Gelochelidon nilotica</i>	Gull-billed Tern	A	LC	
42.	<i>Glareola maldivarum</i>	Oriental Pratincole	A	LC	

43.	<i>Halcyon smyrnensis</i>	White-throated Kingfisher	D	LC	*
44.	<i>Haliastur indus</i>	Brahminy Kite	T	LC	*
45.	<i>Hierococcyx varius</i>	Common Hawk Cuckoo	T	LC	
46.	<i>Himantopus himantopus</i>	Black-winged Stilt	A	LC	
47.	<i>Hirundo rustica</i>	Barn Swallow	T	LC	
48.	<i>Hirundo smithii</i>	Wire-tailed Swallow	T	LC	
49.	<i>Hydrophasianus chirurgus</i>	Pheasant-tailed Jacana	A	LC	
50.	<i>Ixobrychus cinnamomeus</i>	Cinnamon Bittern	A	LC	
51.	<i>Ixobrychus sinensis</i>	Yellow Bittern	A	LC	
52.	<i>Limosa limosa</i>	Black-tailed Godwit	A	LC	
53.	<i>Lonchura malacca</i>	Black-headed Munia	D	LC	
54.	<i>Merops orientalis</i>	Green Bee-eater	T	LC	*
55.	<i>Merops philippinus</i>	Blue-tailed Bee-eater	T	LC	
56.	<i>Mesophoyx intermedia</i>	Intermediate Egret	A	LC	
57.	<i>Metrpidius indicus</i>	Bronze- Winged Jacana	A	LC	
58.	<i>Milvus migrans</i>	Black Kite	T	LC	*
59.	<i>Motacilla flava</i>	Yellow Wagtail	D	LC	
60.	<i>Motacilla maderaspatensis</i>	White-browed Wagtail	T	LC	
61.	<i>Mycteria leucocophala</i>	Painted stork	A	NT	
62.	<i>Nectarinia lotenia</i>	Loten's Sunbird	T	LC	
63.	<i>Nettapus coromandelianus</i>	Cotton Pygmy Goose	A	LC	
64.	<i>Nycticorax nycticorax</i>	Black-crowned Night Heron	A	LC	
65.	<i>Oriolus oriolus</i>	Eurasean Golden Oriole	T	LC	
66.	<i>Orthotomus sutorius</i>	Common Tailorbird	T	LC	
67.	<i>Passer domesticus</i>	House Sparrow	T	LC	*
68.	<i>Pelecanus philippensis</i>	Spot-billed Pelican	A	LC	
69.	<i>Phalacrocorax carbo</i>	Great Cormorant	A	LC	
70.	<i>Phalacrocorax niger</i>	Little Cormorant	A	LC	*
71.	<i>Phalaropus lobatus</i>	Red-necked Phalarope	A	LC	
72.	<i>Platalea leucorodia</i>	Eurasian Spoonbill	A	LC	

73.	<i>Plegadis falcinellus</i>	Glossy Ibis	A	LC	*
74.	<i>Ploceus manyar</i>	Streaked Weaver	T	LC	
75.	<i>Pluvialis squatarola</i>	Grey Plover	A	LC	
76.	<i>Porphyrio porphyrio</i>	Purple Swampphen	A	LC	*
77.	<i>Prinia inornata</i>	Plain Prinia	T	LC	
78.	<i>Prinia socialis</i>	Ashy Prinia	T	LC	*
79.	<i>Psittacula krameri</i>	Rose-ringed Parakeet	T	LC	
80.	<i>Pycnonotus cafer</i>	Red-vented Bulbul	T	LC	
81.	<i>Pycnonotus jocosus</i>	Red-whiskered Bulbul	T	LC	
82.	<i>Rostratula benghalensis</i>	Greater Painted-snipe	A	LC	
83.	<i>Sarkidiornis melanotos</i>	Comb Duck			
84.	<i>Saxicola caprata</i>	Pied Bush Chat	T	LC	*
85.	<i>Sterna aurantia</i>	River Tern	A	LC	
86.	<i>Sternula albifrons</i>	Little Tern	A	LC	*
87.	<i>Streptopelia chinensis</i>	Spotted Dove	T	LC	*
88.	<i>Sturnus pagodarum</i>	Brahminy Starling	T	LC	
89.	<i>Tachybaptus ruficollis</i>	Little Grebe	A	LC	
90.	<i>Threskiornis melanocephalus</i>	Black-headed Ibis	A	NT	*
91.	<i>Tringa glareola</i>	Wood Sandpiper	A	LC	*
92.	<i>Vanellus indicus</i>	Red-wattled Lapwing	D	LC	*
93.	<i>Vanellus malabaricus</i>	Yellow-wattled Lapwing	D	LC	
94.	<i>Zoothera citrina</i>	Orange-headed Thrush	T	LC	

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

Table 3.19.4. IUCN Status of major plant invasive alien species in Suchindram Wetland

S. No.	Species	Family	Tamil Name
1.	<i>Albizia saman</i>	Fabaceae	Rain tree
2.	<i>Alternanthera sessilis</i>	Amaranthaceae	Ponnanganni
3.	<i>Ipomoea carnea</i>	Convolvulaceae	
4.	<i>Lantana camara</i>	Verbenaceae	Unnichi
5.	<i>Senna occidentalis</i>	Caesalpiniaceae	Thagarai

6.	<i>Tylophora indica</i>	Asclepiadaceae	Naippalai
7.	<i>Typha angustifolia</i>	Typhaceae	Sambu
8.	<i>Xanthium indicum</i>	Compositae	Marul oomatham

Table 3.19.5. IUCN Status of major medicinal plant species in Suchindram Wetland

S. No.	Species	Family	Tamil Name	Habit
1.	<i>Abrus precatorius</i>	Fabaceae	Kundumani	Climber
2.	<i>Abutilon indicum</i>	Malvaceae	Thuthi	Shrub
3.	<i>Achyranthes aspera</i>	Amaranthaceae	Nayurivi	Herb
4.	<i>Aerva lanata</i>	Amaranthaceae	Peelai	Herb
5.	<i>Azadiracta indica</i>	Meliaceae	Vembu	Tree
6.	<i>Alternanthera sessilis</i>	Amaranthaceae	Ponnanganni	Herb
7.	<i>Boerhavia diffusa</i>	Nyctaginaceae	Mookarattai	Herb
8.	<i>Calotropis gigantea</i>	Asclepiadaceae	Erukku	Shrub
9.	<i>Cardiospermum halicacabum</i>	Sapindaceae	Mudakotthan	Herb
10.	<i>Cynodon dactylon</i>	Poaceae	Aruhampul	Grass
11.	<i>Mukia leiosperma</i>	Cucurbitaceae		Climber
12.	<i>Solanum trilobatum</i>	Solanaceae	Thoodhuvalai	Herb
13.	<i>Tephrosia purpurea</i>	Fabaceae	Kozhinji	Herb
14.	<i>Tinospora cordifolia</i>	Menispermaceae	Seendhil	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