

3.60. NANJARAYAN TANK BIRD SANCTUARY

❖ **State / Union Territory:** Tamil Nadu

❖ **Name and address of person (s) compiling this information:**

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Section 1: Identification, Location and Jurisdiction

- 1.1 *Name of the Wetland:* Nanjarayan Tank Bird Sanctuary or Sarkar Periyapalayam Reservoir
- 1.2 *Name of the Village (s), Tehsil (s), Municipal area (s):* Neruperichal and Sarkar Periyapalayam
- 1.3 *Name of the District (s) in which Wetlands complex located:* Tiruppur
- 1.4 *Geographical coordinates:*
 - ▶ Latitude: 11°8'2.6196" N
 - ▶ Longitude: 77°23'17.736" 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:* 103.66 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 - 1.5; Maximum - 2.5

2.4 *Elevation (m above mean sea level):* 290

2.5 *Water regimes*

a) Main source of water

- ☒ Rainfall inflow from river
- ☐ Groundwater
- ☒ Catchment runoff
- ☒ Direct/ indirect inflow from river: Noyyal River Basin is the source of water
- ☐ Others, please specify
- ☐ 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): 72.9

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):* 3217.09 ha (with an irregular radius of 3.25 km)

2.8 *Major land use within zone of influence*

Land Use	Percentage
Forest	: 0%
Vegetation (Plantation)	: 0%
Agriculture	: 21%
Settlements (Rural)	: 71%
Settlements (Urban)	: 0%
Industrial	: 0%
Waterbody	: 2%
Waste Land	: 6%

2.9 *Map of Wetland complex and zone of influence:* Enclosed as Annexure 3.60 (Fig. 3.60.1-3.60.2)

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 3.60.1 in Annexure 3.60).

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 3.60.2-3.60.3 in Annexure 3.60).

3.3 *Species of conservation significance:* Highlighted in Table 3.60.1-3.60.3

3.4 *Major plant invasive alien species:* The Wetland supports 3 plant invasive species (refer to Table 3.60.4 in Annexure 3.60).

3.5 *Major animal invasive alien species:* The Wetland supports 1 animal invasive species (refer to Table 3.60.5 in Annexure 3.60).

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	Water has been drawn from outflow for agricultural activities
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. Listed in Table 3.60.6 (Annexure 3.60)
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	Substantial water flow from the surrounding watershed
Has significant cultural and religious values	☐ Yes ☒ No	
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	Almost 9 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 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	
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	Water has been drawn from outflow for agricultural activities
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	Unauthorized sewage disposal
Unsustainable harvest of biological 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 ☐ Medium ☒ Low	☒ Present ☐ Potential	Listed in Table 3.60.4-3.60.5 in Annexure 3.60
Any others	☐ High ☐ Medium ☐ Low	☐ Present ☐ 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			Unauthorized sewage disposal

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. Online publication available at www.zsi.gov.in (Last update: May 2018).
2. Ali, S. (2002). *The book of Indian birds* (13th revised ed.). Oxford University Press.
3. Bibby, C. J., Burgess, N. D., & Hill, D. A. (1993). *Bird census techniques*. Academic Press.
4. Gamble, J. S., & Fischer, C. E. C. (1915-1935). *Flora of Presidency of Madras*. Adlard and Son.
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6. Henry, A. N., Chithra, V. N., & Balakrishnan, P. (1989). *Flora of Tamil Nadu India. Series I: Analysis* (Vol. III). Botanical Survey of India.
7. 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>
8. Kehimkar, I. (2008). *The book of Indian butterflies*. Bombay Natural History Society.
9. K. Ratnam. (n.d.). *Birds of Tamil Nadu*.
10. Mathew, K. M. (1981). *The material for the flora of the Tamilnadu Carnatic*. Madras, India.
11. Mathew, K. M. (1982). *Illustrations on the flora of the Tamilnadu Carnatic* (Vol. II). The Diocesan Press.
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13. Mathew, K. M. (1988). *Further illustrations on the flora of the Tamilnadu Carnatic* (Vol. IV). The Diocesan Press.
14. Nair, N. C., & Henry, A. N. (1983). *Flora of Tamil Nadu, India. Series I* (Vol. 1). Botanical Survey of India, Southern Circle.

ANNEXURE 3.60

Fig 3.60.1. Zone of Influence of Nanjarayan Tank Bird Sanctuary

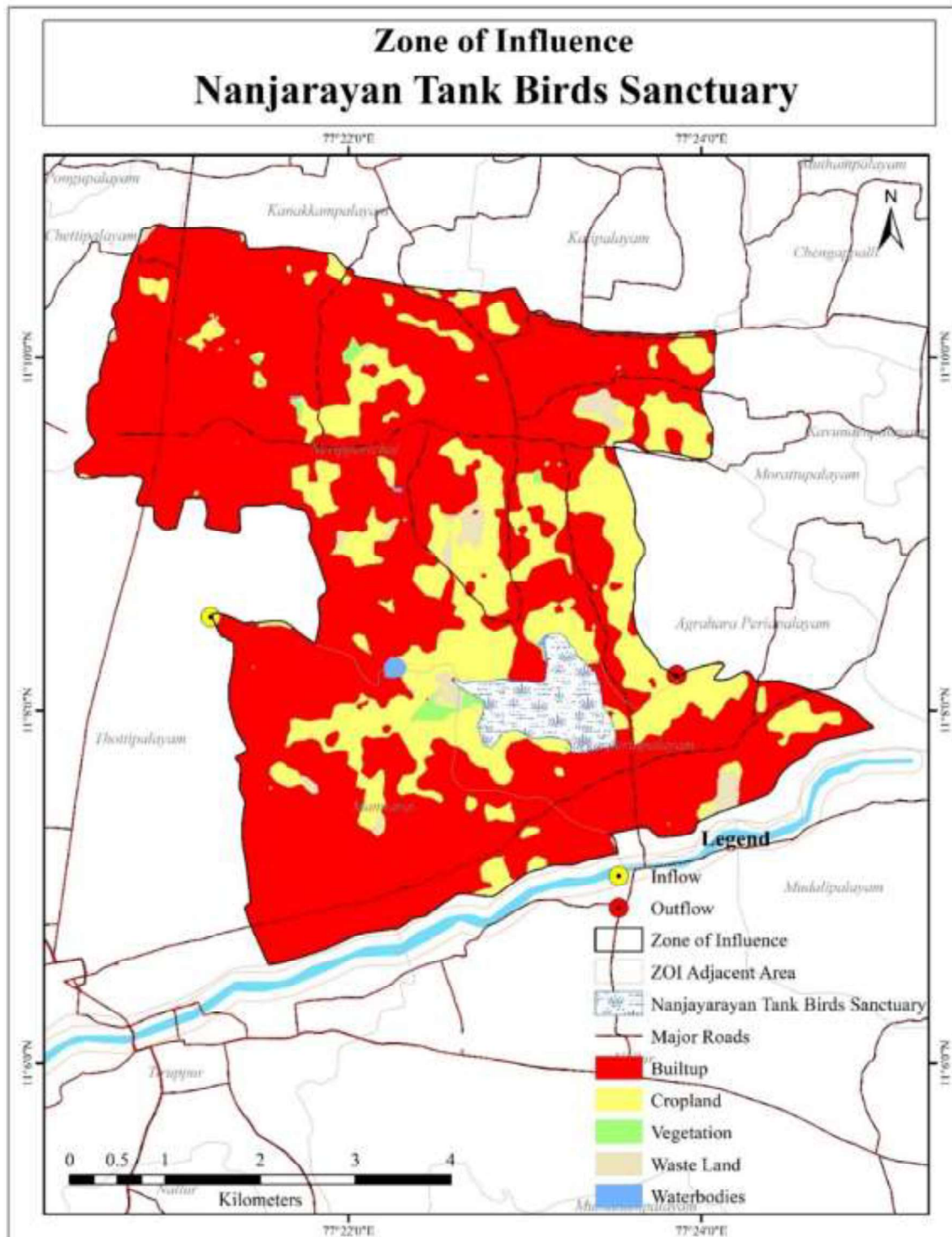


Fig 3.60.2. Map (2014 vs. 2024) and Land Use/ Land Cover of Nanjarayan Tank Bird Sanctuary

Map of the Wetland in 2014



Map of the Wetland in 2024



Land Use/ Land Cover of the Wetland

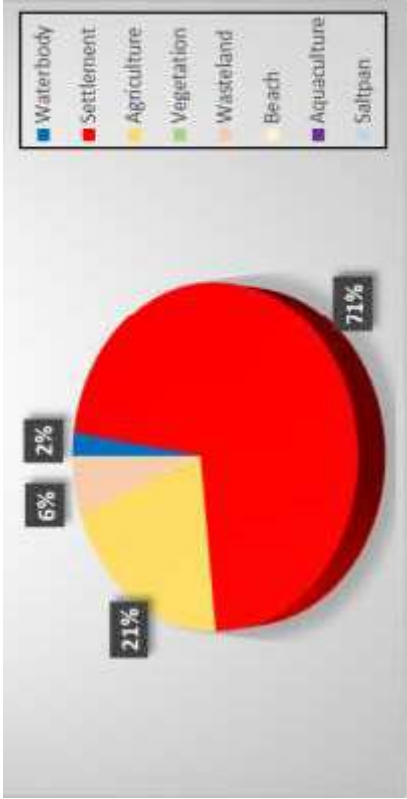


Table 3.60.1. IUCN Status of Floral Species in Nanjarayan Tank Bird Sanctuary

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>Alangium salvifolium</i>	Alangiaceae	Azhinjil	Tree	LC
9.	<i>Albizia lebbek</i>	Mimosaceae	Vaagai	Tree	LC
10.	<i>Albizia saman</i>	Fabaceae	Rain tree	Tree	LC
11.	<i>Alternanthera pungens</i>	Amaranthaceae		Herb	NE
12.	<i>Alternanthera sessilis</i>	Amaranthaceae	Ponnanganni	Herb	NE
13.	<i>Boerhavia diffusa</i>	Nyctaginaceae	Mookarattai	Herb	NE
14.	<i>Borassus flabellifer</i>	Arecaceae	Panai	Tree	LC
15.	<i>Brachiaria ramosa</i>	Poaceae		Grass	NE
16.	<i>Calotropis gigantea</i>	Asclepiadaceae	Erukku	Shrub	NE
17.	<i>Cardiospermum halicacabum</i>	Sapindaceae	Mudakotthan	Herb	NE
18.	<i>Chloris barbata</i>	Poaceae	Kodaipul	Grass	NE
19.	<i>Cleome viscosa</i>	Capparidaceae	Nai vaelai	Herb	NE
20.	<i>Commelina benghalensis</i>	Commelinaceae	Kanaangozhai	Herb	LC
21.	<i>Corchorus capsularis</i>	Tiliaceae	Sanal	Herb	NE
22.	<i>Cynodon dactylon</i>	Poaceae	Aruhampul	Grass	NE
23.	<i>Datura metal</i>	Solanaceae	Karu Oomatthai	Herb	NE
24.	<i>Digitaria abludens</i>	Poaceae		Grass	NE
25.	<i>Digitaria ciliaris</i>	Poaceae		Grass	NE
26.	<i>Eragrostis viscosa</i>	Poaceae	-	Grass	LC

27.	<i>Ficus benghalensis</i>	Moraceae	Aal	Tree	LC
28.	<i>Ficus hispida</i>	Moraceae	Peyatthi	Tree	LC
29.	<i>Ficus racemosa</i>	Moraceae	Atthi	Tree	LC
30.	<i>Ficus religiosa</i>	Moraceae	Arasu	Tree	LC
31.	<i>Hyptis suaveolens</i>	Labiatae		Shrub	NE
32.	<i>Ipomoea carnea</i>	Convolvulaceae		Shrub	NE
33.	<i>Ischaemum indicum</i>	Poaceae	-	Grass	LC
34.	<i>Jatropha gossypifolia</i>	Euphorbiaceae	Kaatu-amanakku	Shrub	NE
35.	<i>Justicia procumbens</i>	Acanthaceae	Ottupillu	Herb	NE
36.	<i>Justicia prostrata</i>	Acanthaceae		Herb	NE
37.	<i>Lantana camara</i>	Verbenaceae	Unnichedi	Shrub	LC
38.	<i>Lansium parasiticum</i>	Meliaceae	Ootuuni maram	Tree	LC
39.	<i>Leucas aspera</i>	Labiatae	Thumbai	Herb	LC
40.	<i>Mollugo cerviana</i>	Molluginaceae	Parpaadagam	Herb	NE
41.	<i>Morinda tinctoria</i>	Rubiaceae	Manjanathi	Tree	NE
42.	<i>Mukia leiosperma</i>	Cucurbitaceae		Climber	NE
43.	<i>Passiflora foetida</i>	Passifloraceae	Poonaipidukku	Climber	NE
44.	<i>Phyllanthus reticulatus</i>	Euphorbiaceae	Inki pazham	Shrub	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>Streblus asper</i>	Moraceae	Kuruvipala	Tree	LC
51.	<i>Syzygium cumini</i>	Myrtaceae	Naval	Tree	LC
52.	<i>Terminalia arujuna</i>	Combretaceae		Tree	LC
53.	<i>Terminalia catappa</i>	Combretaceae	Naattu Badaam	Tree	NE

54.	<i>Tephrosia purpurea</i>	Fabaceae	Kozhinji	Herb	NE
55.	<i>Thevetia peruviana</i>	Apocynaceae	Ponnarali	Shrub	NE
56.	<i>Tinospora cordifolia</i>	Menispermaceae	Seendhil	Climber	NE
57.	<i>Trachys muricata</i>	Poaceae	-	Grass	LC
58.	<i>Trianthema portulacastrum</i>	Aizoaceae		Herb	NE
59.	<i>Tridax procumbens</i>	Compositae	Vettukkaaya-thazhai	Herb	LC
60.	<i>Tylophora indica</i>	Asclepiadaceae	Naippalai	Climber	NE
61.	<i>Typha angustifolia</i>	Typhaceae	Sambu	Herb	LC
62.	<i>Xanthium indicum</i>	Compositae	Marul oomatham	Herb	LC

Table 3.60.2. IUCN Status of Selected Fauna Species in Nanjarayan Tank Bird Sanctuary

S. No.	Scientific Name of the Species	Family	Common Name	IUCN
<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>Cnemaspis yercaudensis</i>	Gekkonidae		LC
2.	<i>Cnemaspis mysoriensis</i>	Gekkonidae		LC
3.	<i>Cyrtodactylus speciosus</i>	Gekkonidae	Forest spotted gecko	LC
4.	<i>Hemidactylus graniticolus</i>	Gekkonidae		LC
5.	<i>Calotes versicolor</i>	Agamidae	Oriental garden lizard	LC
6.	<i>Eutropis allapallensis</i>	Scincidae		LC
7.	<i>Uropeltis dindigalensis</i>	Uropeltidae		LC
<i>C. Amphibian</i>				
1.	<i>Bufo scaber</i>	Bufonidae	Fergusons toad	LC

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

19.	<i>Junonia almana</i>	Nymphalidae	Peacock pansy	LC
20.	<i>Belenoisaurora</i>	Pieridae	Pioneer	LC
21.	<i>Danaus chrysippus</i>	Nymphalidae	Plain tiger	LC

LC – Least Concern; * - Yes

Table 3.60.3. IUCN Status of Bird Species in Nanjarayan Tank Bird Sanctuary

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

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

55.	<i>Copsychus saularis</i>	Oriental Magpie Robin	T	LC	
56.	<i>Coracias benghalensis</i>	Indian Roller	T	LC	*
57.	<i>Corvus macrorhynchos</i>	Large-billed Crow	T	LC	*
58.	<i>Corvus splendens</i>	House Crow	T	LC	*
59.	<i>Cypsiurus balasiensis</i>	Asian Palm Swift	T	LC	*
60.	<i>Dendrocitta vagabunda</i>	Rufous Treepie	T	LC	*
61.	<i>Dicaeum erythrorhynchos</i>	Pale-billed Flowerpecker	T	LC	*
62.	<i>Dicrurus adsimilis</i>	Black Drongo	T	LC	*
63.	<i>Dupetor flavicollis</i>	Black Bittern	A	LC	
64.	<i>Egretta garzetta</i>	Little Egret	A	LC	*
65.	<i>Elanus caeruleus</i>	Black-shouldered Kite	T	LC	*
66.	<i>Eremopterix grisea</i>	Ashy-crowned Sparrow Lark	T	LC	
67.	<i>Eudynamys scolopacea</i>	Asian Koel	T	LC	*
68.	<i>Falco tinnunculus</i>	Common Kestrel	T	LC	
69.	<i>Francolinus pondicerianus</i>	Grey Francolin	T	LC	*
70.	<i>Fulica atra</i>	Coot	A	LC	
71.	<i>Gallinago stenura</i>	Pintail Snipe	A	LC	
72.	<i>Gallicrex cinerea</i>	Watercock	A	LC	
73.	<i>Gallinula chloropus</i>	Common Moorhen	A	LC	*
74.	<i>Gelochelidon nilotica</i>	Gull-billed Tern	A	LC	
75.	<i>Glareola maldivarum</i>	Oriental Pratincole	A	LC	
76.	<i>Halcyon smyrnensis</i>	White-throated Kingfisher	D	LC	*
77.	<i>Haliastur indus</i>	Brahminy Kite	T	LC	*
78.	<i>Hierococcyx varius</i>	Common Hawk Cuckoo	T	LC	
79.	<i>Himantopus himantopus</i>	Black-winged Stilt	A	LC	
80.	<i>Hirundo rustica</i>	Barn Swallow	T	LC	
81.	<i>Hirundo smithii</i>	Wire-tailed Swallow	T	LC	
82.	<i>Hydrophasianus chirurgus</i>	Pheasant-tailed Jacana	A	LC	

83.	<i>Ichthyophaga leucogaster</i>	White-bellied sea eagle	T	LC	
84.	<i>Ixobrychus cinnamomeus</i>	Cinnamon Bittern	A	LC	
85.	<i>Ixobrychus sinensis</i>	Yellow Bittern	A	LC	
86.	<i>Limosa limosa</i>	Black-tailed Godwit	A	LC	
87.	<i>Lonchura malacca</i>	Black-headed Munia	D	LC	
88.	<i>Merops orientalis</i>	Green Bee-eater	T	LC	*
89.	<i>Merops philippinus</i>	Blue-tailed Bee-eater	T	LC	
90.	<i>Mesophoyx intermedia</i>	Intermediate Egret	A	LC	
91.	<i>Milvus migrans</i>	Black Kite	T	LC	*
92.	<i>Mirafra affinis</i>	Jerdon's Bushlark	T	LC	*
93.	<i>Motacilla flava</i>	Yellow Wagtail	D	LC	
94.	<i>Motacilla maderaspatensis</i>	White-browed Wagtail	T	LC	
95.	<i>Mycteria leucocephala</i>	Painted Stork	A	NT	*
96.	<i>Nectarinia lotenia</i>	Loten's Sunbird	T	LC	
97.	<i>Nycticorax nycticorax</i>	Black-crowned Night Heron	A	LC	*
98.	<i>Oriolus oriolus</i>	Eurasean Golden Oriole	T	LC	
99.	<i>Orthotomus sutorius</i>	Common Tailorbird	T	LC	*
100.	<i>Pavo cristatus</i>	Indian Peafowl	T	LC	*
101.	<i>Passer domesticus</i>	House Sparrow	T	LC	*
102.	<i>Pelecanus philippensis</i>	Spot-billed Pelican	A	LC	*
103.	<i>Phalacrocorax carbo</i>	Great Cormorant	A	LC	
104.	<i>Phalacrocorax fuscicollis</i>	Indian Shag	A	LC	*
105.	<i>Phalacrocorax niger</i>	Little Cormorant	A	LC	*
106.	<i>Phalaropus lobatus</i>	Red-necked Phalarope	A	LC	
107.	<i>Phoenicopterus ruber</i>	Greater Flamingo	A	LC	
108.	<i>Phaenicophaeus tristis</i>	Green-billed Malkoha	T	LC	
109.	<i>Platalea leucorodia</i>	Eurasian Spoonbill	A	LC	
110.	<i>Plegadis falcinellus</i>	Glossy Ibis	A	LC	*
111.	<i>Ploceus manyar</i>	Streaked Weaver	T	LC	
112.	<i>Pluvialis squatarola</i>	Grey Plover	A	LC	

113.	<i>Porphyrio porphyrio</i>	Purple Swamphen	A	LC	*
114.	<i>Prinia inornata</i>	Plain Prinia	T	LC	*
115.	<i>Prinia socialis</i>	Ashy Prinia	T	LC	*
116.	<i>Psittacula krameri</i>	Rose-ringed Parakeet	T	LC	*
117.	<i>Psilopogon haemacephalus</i>	Coppersmith barbet	T	LC	*
118.	<i>Pycnonotus cafer</i>	Red-vented Bulbul	T	LC	*
119.	<i>Pycnonotus jocosus</i>	Red-whiskered Bulbul	T	LC	
120.	<i>Rostratula benghalensis</i>	Greater Painted-snipe	A	LC	
121.	<i>Saxicola caprata</i>	Pied Bush Chat	T	LC	*
122.	<i>Saxicoloides fulicata</i>	Indian Robin	T	LC	*
123.	<i>Spilornis cheela</i>	Crested Serpent-Eagle	T	LC	
124.	<i>Sterna albifrons</i>	Little Tern	A	LC	*
125.	<i>Sterna anaethetus</i>	Bridled Tern	A	LC	
126.	<i>Sterna aurantia</i>	River Tern	A	LC	*
127.	<i>Sterna caspia</i>	CaspianTern	A	LC	
128.	<i>Streptopelia chinensis</i>	Spotted Dove	T	LC	*
129.	<i>Sturnus pagodarum</i>	Brahminy Starling	T	LC	*
130.	<i>Tachybaptus ruficollis</i>	Little Grebe	A	LC	*
131.	<i>Tachymarptis melba</i>	Alpine Swift	T	LC	
132.	<i>Tephrodornis pondicerianus</i>	Common Woodshrike	T	LC	
133.	<i>Terpsiphone paradisi</i>	AsianParadise-Flycatcher	T	LC	
134.	<i>Threskiornis melanocephalus</i>	Oriental White Ibis	A	LC	
135.	<i>Threskiornis melanocephalus</i>	Black-headed Ibis	A	NT	*
136.	<i>Tringa ochropus</i>	Green Sandpiper	A	LC	*
137.	<i>Tringa stagnatilis</i>	Marsh Sandpiper	A	LC	*
138.	<i>Turdoides affinis</i>	Yellow-billed Babbler	T	LC	
139.	<i>Turnix suscitator</i>	Common Buttonquail	T	LC	
140.	<i>Tyto alba</i>	Barn Owl	T	LC	*
141.	<i>Upupa epops</i>	Hoopoe	T	LC	
142.	<i>Vanellus indicus</i>	Red-wattled Lapwing	D	LC	*

143.	<i>Vanellus malabaricus</i>	Yellow-wattled Lapwing	D	LC	*
144.	<i>Zoothera citrina</i>	Orange-headed Thrush	T	LC	

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

Table 3.60.4. IUCN Status of major plant invasive alien species in Nanjarayan Tank Bird Sanctuary

S. No.	Species	Family	Tamil Name
1.	<i>Albizia saman</i>	Fabaceae	Rain tree
2.	<i>Alternanthera sessilis</i>	Amaranthaceae	Ponnanganni
3.	<i>Hyptis suaveolens</i>	Labiatae	
4.	<i>Ipomoea carnea</i>	Convolvulaceae	
5.	<i>Lantana camara</i>	Verbenaceae	Unnichedi
6.	<i>Senna occidentalis</i>	Caesalpiniaceae	Thagarai
7.	<i>Thevetia peruviana</i>	Apocynaceae	Ponnarali
8.	<i>Typha angustifolia</i>	Typhaceae	Sambu
9.	<i>Xanthium indicum</i>	Compositae	Marul oomatham

Table 3.60.5. IUCN Status of major animal invasive alien species in Nanjarayan Tank Bird Sanctuary

S.No	Species	Family	Common name	IUCN
A. Fish				
1.	<i>Clarias gariepinus</i>	Clariidae	African Catfish	LC

Table 3.60.6. IUCN Status of major medicinal plant species in Nanjarayan Tank Bird Sanctuary

S. No.	Scientific Name of the Species	Family	Tamil Name	Habit	IUCN
1.	<i>Cassia fistula</i>	Caesalpiniaceae		Tree	LC
2.	<i>Caryota urens</i>	Arecaceae	Koonthapanai	Tree	LC

3.	<i>Corallocarpus epigaeus</i>	Cucurbitaceae	Akasha karuden	Climber	Lc
4.	<i>Drosera burmannii</i>	Droseraceae	Alukanni	Herb	LC
5.	<i>Drymaria cordata</i>	Caryophyllaceae	Puliarai	Herb	LC
6.	<i>Ruta graveolans</i>	Rutaceae	Aruvathampatch	Shrub	LC
7.	<i>Terminalia chebula</i>	Combretaceae		Tree	LC
8.	<i>Tinospora cordifolia</i>	Menispermaceae	Seendhil	Climber	NE
9.	<i>Tridax procumbens</i>	Compositae	Vettukkaaya-thazhai	Herb	LC
10.	<i>Tylophora indica</i>	Asclepiadaceae	Naippalai	Climber	NE

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