

Ramsar Information Sheet

Published on 2 February 2025

India Udhwa Lake Bird Sanctuary



Designation date 8 January 2024

Site number 2559

Coordinates 24°59'43"N 87°48'37"E

Area 935,50 ha

Color codes

Fields back-shaded in light blue relate to data and information required only for RIS updates.

Note that some fields concerning aspects of Part 3, the Ecological Character Description of the RIS (tinted in purple), are not expected to be completed as part of a standard RIS, but are included for completeness so as to provide the requested consistency between the RIS and the format of a 'full' Ecological Character Description, as adopted in Resolution X.15 (2008). If a Contracting Party does have information available that is relevant to these fields (for example from a national format Ecological Character Description) it may, if it wishes to, include information in these additional fields.

1 - Summary

Summary

The Udhwa Lake Bird Sanctuary (ULBS) is located at 24° 57′51″ N to 25°1′14″N Latitude and 87°47′40″E to 87°49′27″E Longitude in the Rajmahal Subdivision of Sahebganj

district of Jharkhand. The largest natural Gangetic floodplain wetland of Jharkhand was declared a sanctuary in 1991 under the Wildlife Protection Act (1972). The sanctuary

comprises of two connected complex wetlands namely the Barhel lake (area of 410 ha) and the Pataura lake (area of 155 ha). The Udhwa lake a natural wetland is situated in the alluvial plains of River Ganga and is surrounded by several hillocks of Rajmahal hills. The Udhwa Nala connects the wetland to the Ganges near the Farakka

Barrage and it forms the main source of water to the wetland sanctuary. Additionally, several channels originate from the Rajmahal hillocks and drain into the Berhale lake.

The ULBS has a wide variety of habitats each supporting diverse flora and fauna. The Lake is rich in algae (over 41 species) and has 29 species of documented macrophyte that include six species of free floating, 17 species of rooted floating vegetation, seven species of submerged vegetation and six emergent vegetation. Among the vegetation the grass Cyperus tagetum (locally called petali) is widespread in the wetland and is locally used for livestock feeding. The fauna comprises of 146 species of birds, over 45 species of fish, mammals including fishing cat and Otter.

The ULBS wetland was the only sanctuary in the state of Jharkhand at the time of its separation from Bihar. The wetland provides habitats for over 146 birds that comprise of 80 species of water and water dependent birds. Further 79 species are resident while 39 are migrant and 28 species are resident migrants. The wetland has around 14 species categorized as threatened as per the IUCN Red list. These include the Asian Woolly-necked Stork, Lesser Adjutant Stork, Common Pochard etc.

Considering the diversity and abundance of birds in the wetland ULBS is also designated as Important Bird and Biodiversity Area (IBA) during 2016. The wetland complex forms an important landscape in the Central Asian fly way with the large number of birds that visit the wetland during the winters.

Thus, owing to the uniqueness of the wetland landscape located in the Lower Gangetic plains associated with biodiversity, ecosystem services and climate co-benefits (both

tangible and non-tangible) makes the protection, management and conservation a priority for the Udhwa lake.

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

Responsible compiler

Institution/agency Department of Environment, Forest and Climate Change

Office of the Divisional Forest Officer, Near Gora Badi Hatiya,
Sahibganj,
Jharkhand, INDIA

National Ramsar Administrative Authority

Institution/agency | Ministry of Environment, Forest and Climate Change

Postal address Ministry of Environment, Forest and Climate Change Government of India, Indira Paryavaran Bhawan Jorbagh Road, New Delhi - 110 003

INDIA

2.1.2 - Period of collection of data and information used to compile the RIS

From year 2006

To year 2023

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)

Unofficial name (optional)

Berhale and Pataura Jheel

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image

<1 file(s) uploaded>

Former maps 0

Boundaries description

The entire wetland area is located within Udhwa Lake Bird Sanctuary (located at 24°57′51″ N to 25°1′14″N Latitude and 87°47′40″E to 87°49′27″E Longitude) and is thus protected under Wild life Protection Act. The wetland is surrounded by a buffer area designated under the Eco-sensitive zone that expands up to two kilometers on all sides along its periphery. This zone is dotted with villages on all sides with maximum settlement on eastern side, villages of Pranpur, Sukhahar are situated on northern periphery of ESZ while those of Chatradiha, Mohanpur, Dharampur are located on southern end. The western side has more than 10 villages with some villages such as Dulahar, Jonka, Singharia, are situated near the wetland boundary.

2.2.2 - General location

a) In which large administrative region does the site lie?

Sahibganj district in the state of Jharkhand.

b) What is the nearest town or population centre?

Rajmahal (sub-Division headquarter)

2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other countries?

b) Is the site adjacent to another designated Ramsar Site on the territory of another Contracting Party?

2.2.4 - Area of the Site

Official area, in hectares (ha): 935.5

Area, in hectares (ha) as calculated from GIS boundaries

939.258

2.2.5 - Biogeography

Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
Freshwater Ecoregions of the World (FEOW)	Ganges delta and plain
Udvardy's Biogeographical Provinces	Indo-Malayan realm

3 - Why is the Site important?

3.1 - Ramsar Criteria and their justification

<no data available>

- ☑ Criterion 2 : Rare species and threatened ecological communities
- ☑ Criterion 3: Biological diversity

The wetland supports a rich floral diversity that comprises of around 29 species of aquatic macrophytes. 67 species of water loving plants and over 87 species of angiosperms along the embankments. The wetland provides habitats for over 146 birds that comprise of 80 species of water and water dependant birds. Further 79 species are resident while 39 are migrant and 28 specie are resident migrants. The wetland has around 14 species categorised as threatened as per the IUCN Red list. These include the Asian Woolly-necked Stork, Lesser Adjutant Stork, Common Pochard, Pallas's Fish Eagle, Black-Justification headed lbis, Black-necked Stork, Ferruginous Duck, Pallid Harrier, Greater Spotted Eagle, River tern, Oriental Darter, Eurasian Curlew, Rufous-vented Grass-babbler, Alexandrine Parakeet. Among the others the Large Whistling Duck is listed under the Schedule I of India's Wildlife Protection Act, 1972. The wetland also supports over 45 species of fish that includes the IUCN Red list categorised Vulnerable Wallaguattu and the Near Threatened High fin Glassy Perchlet (Parambassislala). The reptiles like monitor lizard and python are also documented along with the rare sightings of mammals like Otters and Fishing cat.

3.2 - Plant species whose presence relates to the international importance of the site

Phylum	Scientific name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
Plantae								
TRACHEOPHYTA/ LILIOPSIDA	Aponogeton natans		/		LC			Criterion 3 important aquatic macrophyte
TRACHEOPHYTA/ LILIOPSIDA	Commelina benghalensis		2		LC			Criterion 3 important aquatic macrophyte
TRACHEOPHYTA/ LILIOPSIDA	Eleocharis dulcis		✓		LC			Criterion 3 important aquatic macrophyte
TRACHEOPHYTA/ LILIOPSIDA	Hydrilla verticillata		2		LC			Criterion 3 important aquatic macrophyte
TRACHEOPHYTA/ LILIOPSIDA	Hygroryza aristata		✓		LC			Criterion 3 important aquatic macrophyte
TRACHEOPHYTA/ POLYPODIOPSIDA	Marsilea minuta		✓		LC			Criterion 3 important aquatic macrophyte
TRACHEOPHYTA/ LILIOPSIDA	Najas graminea		2		LC			Criterion 3 important aquatic macrophyte
TRACHEOPHYTA/ MAGNOLIOPSIDA	Nelumbo nucifera		✓		LC			Criterion 3 important aquatic macrophyte
TRACHEOPHYTA/ MAGNOLIOPSIDA	Nymphoides indica		2		LC			Criterion 3 important aquatic macrophyte
TRACHEOPHYTA/ MAGNOLIOPSIDA	Oenanthe javanica		2		LC			Criterion 3 important aquatic macrophyte
TRACHEOPHYTA/ LILIOPSIDA	Ottelia alismoides		/		LC			Criterion 3 important aquatic macrophyte
TRACHEOPHYTA/ LILIOPSIDA	Panicum repens		/		LC			Criterion 3 important aquatic macrophyte
TRACHEOPHYTA/ POLYPODIOPSIDA	Salvinia cucullata		/		LC			Criterion 3 important aquatic macrophyte
TRACHEOPHYTA/ MAGNOLIOPSIDA	Trapa natans		✓		LC			Criterion 3 important aquatic macrophyte
TRACHEOPHYTA/ MAGNOLIOPSIDA	Utricularia gibba		2		LC			Criterion 3 important aquatic macrophyte
TRACHEOPHYTA/ LILIOPSIDA	Vallisneria spiralis		2		LC			Criterion 3 important aquatic macrophyte

3.3 - Animal species whose presence relates to the international importance of the site

Phylum	Scientific name	qual un crite	der under	Pop. Size	Period of pop. Est. occurrence	IUCN e Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
Fish, Mollusc a	nd Crustacea									
CHORDATA/ ACTINOPTERYGII	Parambassis lala					NT		V		Criteria 3 Endemic to the biogeographic region and an important habitat as a nursery and spawning ground to complete its life cycle.
CHORDATA/ ACTINOPTERYGII	Wallago attu	/				VU				Criteria 2, The wetland provides important habitat as a spawning ground and nursery to complete its life cycle.
Birds										
CHORDATA/ AVES	Anhinga melanogaster					NT				Criteria 3
CHORDATA/ AVES	Aythya ferina	/				VU				Criteria 2 and 3
CHORDATA/ AVES	Aythya nyroca					NT		₽		Criteria 2 and 3
CHORDATA/ AVES	Ciconia episcopus					NT				Criteria 3
CHORDATA/ AVES	Ephippiorhynchus asiaticus					NT				Criteria 3
CHORDATA/ AVES	Haliaeetus Ieucoryphus					EN		/		Criteria 2 and 3
CHORDATA/ AVES	Leptoptilos javanicus					VU				Criteria 2 and 3
CHORDATA/ AVES	Numenius arquata					NT				Criteria 3
CHORDATA/ AVES	Threskiornis melanocephalus					NT				Criteria 3

¹⁾ Percentage of the total biogeographic population at the site

3.4 - Ecological communities whose presence relates to the international importance of the site

Name of ecological community	Community qualifies under Criterion 2?	Description	Justification
Fish Community		The wetland supports more than 45 species of fish. Most of the species depend on the wetland as a nursery and spawing ground to complete their lifecycle. The important ones are the globally threatened Wallagu attu and the Parambassis lala.	Conservation of the wetland is important for the survival of the two species since the wetland is also connected with the Ganges. The fish species find suitable breeding and feeding ground in the ULBS.
Avi-fauna	2	The wetland provides habitats for over 146 bird species that comprise of 80 species of water and water dependent birds. Further 79 species are resident while 39 are migrant and 28 specie are resident migrants. The wetland has around 14 threatened species	The wetland is an important habitat to complete the life cycle of the migratory birds along the Central Asian Flyway. In addition, the threatened species get protected due to the status of the wetland as a Sanctuary.

4 - What is the Site like? (Ecological character description)

4.1 - Ecological character

The Udhwa Lake Bird Sanctuary (ULBS) is located at 24° 57'51" N to 25°1'14"N Latitude and 87°47'40"E to 87°49'27"E Longitude in the Rajmahal Subdivision of Sahebganj district of Jharkhand. The area falls under the Indo-Malayan realm of the Terrestrial Biogeographic realms of the world. Geologically it is on the borderline between the Chhotanagpur Plateau region and the Gangetic fore deep region. The Raimahal hills on the north eastare the formations of the upper Gondwana group with intertrappean sandstone, shales and their associated sedimentary and igneous rocks. Under the ecological sub division, the area comes under the Lower Indo- Gangetic Plain Zone. The largest natural Gangetic floodplain wetland of Jharkhand was declared a sanctuary in 1991 under the Wildlife Protection Act (1972). The sanctuary comprises of two connected complex wetlands namely the Barhel lake with an area of 410 ha and the Pataura lake with an area of 155 ha. The Udhwa lake a natural wetland is situated in the alluvial plains of River Ganga and is surrounded by several hillocks of Rajmahal hills. The UdhwaNala connects the wetland to the Ganges near the Farakka Barrage and it forms the main source of water to the wetland sanctuary. Additionally, several channels originate from the Rajmahal hillocks and drain into the Berhale lake. The Udhwa lake forms the buffer wherein it receives water from the Ganges and provides water during the dry season. Udhwa lake comes in the zone of transition between the wetland tropical climate of Bengal and the semi arid or dry climate of the west. The landscape experiences three well differentiated seasons namely Summer (March to June), Monsoon (July to September) and Winter (November to February) and October being the transitory month. The ULBS has a wide variety of habitats each supporting diverse flora and fauna. The Lake is rich in algae (over 41 species) and has 29 species of documented macrophytes that include six species of free floating, 17 species of rooted floating vegetation, seven species of submerged vegetation and six emergent vegetation. Among the vegetation the grass Cyperustagetum (locally called petali) is wide spread in the wetland and is locally used for livestock feeding mainly during the dry season. The fauna comprises of 146 species of birds, over 45 species of fish that includes the IUCN categorised Vulnerable Wallaquattu, Near Threatened High fin Glassy Perchlet (Parambassislala), reptiles such as monitor lizards, python, cobra, etc.; mammals including fishing cat and Otter. The ULBS wetland gains importance as it was the only sanctuary in the state of Jharkhand at the time of its separation from Bihar. The wetland provides habitats for over 146 birds that comprise of 80 species of water and water dependant birds. Further 79 species are resident while 39 are migrant and 28 specie are resident migrants. The wetland has around 13 species categorised as threatened as per the IUCN Red list. These include the Asian Woolly-necked Stork, Lesser Adjutant Stork, Common Pochard, Pallas's Fish Eagle, Black-headed lbis, Black-necked Stork, Ferruginous Duck, Pallid Harrier, Greater Spotted Eagle, River tern, Oriental Darter, Eurasian Curlew, Rufous-vented Grass-babbler, Alexandrine Parakeet. Taking the diversity and abundance of birds in the wetland the ULBS is also designated as Important Bird and Biodiversity Area (IBA) during 2016. The wetland complex forms an important landscape in the Central Asian fly way with the large number of birds that visit the wetland during the winters. Historically this area is of significance because it was at Udhwa Nala the famous decisive battle of Udhuahh nullah between mir kasim occured in 1763. This incidence along with the other historical occurrence during the Moghul and British rule add to the uniqueness of the Udhwa Wetland landscape.

4.2 - What wetland type(s) are in the site?

Inland wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
Fresh water > Lakes and pools >> O: Permanent freshwater lakes	Jheel	1	590	

Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
Agriculture fields	

(ECD) Habitat connectivity The habitat has connectivity with the Ganges landscape.

4.3 - Biological components

4.3.1 - Plant species

Phylum	Scientific name	Position in range / endemism / other
TRACHEOPHYTA/LILIOPSIDA	Colocasia esculenta	Native to the tropical region, used and fodder and food plant
TRACHEOPHYTA/LILIOPSIDA	Cyperus pangorei	fodder for cattle
TRACHEOPHYTA/MAGNOLIOPSIDA	Euryale ferox	Food source to herbivores

Invasive alien plant species

Phylum	Scientific name	Impacts
TRACHEOPHYTA/LILIOPSIDA	Eichhornia crassipes	Actual (major impacts)
TRACHEOPHYTA/LILIOPSIDA	Phragmites karka	Actual (minor impacts)

4.3.2 - Animal species

Optional text box to provide further information

		Invasive	species	are not	estimated	for the	Sanctuar
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4.4 - Physical components

4.4.1 - Climate

Climatic region	Subregion
C: Moist Mid-Latitude	Csa: Mediterranean (Mild
climate with mild winters	with dry, hot summer)

O M : (Mr. I I et al.	O M III (ATIL		
C: Moist Mid-Latitude climate with mild winters	Csa: Mediterranean (Mild with dry, hot summer)		
			50 mm. The relative humidity is high and reaches up – to 92%. The rainfall and inundations received from the Ganges River and the hillocks
4.4.2 - Geomorphic set	tting		
a) Minimum alayatian al	hove con lovel (in		
a) Minimum elevation al	metres) 22		
a) Maximum elevation al	bove sea level (in metres)		
	En	tire river basin	
	Upper par	rt of river basin \square	
	Middle par	rt of river basin \square	
	Lower par	rt of river basin 🗹	
	More than o	one river basin \square	
	No	t in river basin 🔲	
		Coastal	
			the larger river basin. For a coastal/marine site, please name the sea or ocean.
The site lies in Ganga	ı River basin and is annı	ually in undated by mons	oon aloverflow
4.4.3 - Soil Are soil types subject to condition	No availab change as a result of changin ons (e.g., increased salinity or	Mineral □ Organic ☑ ole information □ ng hydrological acidification)? Yes ○ No ●	
4.4.4 - Water regime			
Water permanence			
Presence? Usually permanent water			
present	No change		
Source of water that maintain	is character of the site		
Presence?	Predominant water source		
Water inputs from surface water	2	No change	
Water inputs from precipitation	✓	No change	
Water destination	-		
Presence?			
Feeds groundwater	No change		
Stability of water regime Presence?]		
Water levels largely stable	No change		
(ECD)			
(COD) Connectivity of surfa		and is connected to the ring the dry season.	Ganges river as it receives water during the monsoon and also releases

4.4.5 - Sediment regime

Significant erosion of sediments occurs on the site \Box

Significant accretion or deposition of sediments occurs on the site $\ensuremath{\checkmark}$

Significant transportation of sediments occurs on or through the site $\hfill\Box$

RIS for Site no. 2559, Udhwa Lake Bird Sanctuary, Ind	lia
Sediment regime is highly variable, either seasonally or inter-annuall	у 🗆
Sediment regime unknown	n 🗆
4.4.6 - Water pH	
Acid (pH<5.5	_
Circumneutral (pH: 5.5-7.4	
Alkaline (pH>7.4	,
Unknow	n 🗆
4.4.7 - Water salinity	
Fresh (<0.5 g/l) 🗹
Mixohaline (brackish)/Mixosaline (0.5-30 g/l) 🗆
Euhaline/Eusaline (30-40 g/l) 🗆
Hyperhaline/Hypersaline (>40 g/l) 🗆
Unknown	n 🗆
4.4.8 - Dissolved or suspended nutrients in water	
Eutrophi	c 🗆
Mesotrophi	c ☑
Oligotrophi	c 🗆
Dystrophi	c 🗆
Unknown	1 🗆
4.4.9 - Features of the surrounding area which may affect	the Site
Please describe whether, and if so how, the landscape and ecological characteristics in the area surrounding the Ramsar Site differ from the site itself	e i) broadly similar O ii) significantly different $oldot$
Surrounding area has greater urbanisation or developmen	ıt 🗆
Surrounding area has higher human population densit	y 🗹
Surrounding area has more intensive agricultural use	e Ø
Surrounding area has significantly different land cover or habitat types	
4.5 - Ecosystem services	
4.5.1 - Ecosystem services/benefits	
Provisioning Services	Evtent/Significance

Ecosystem service	Examples	Importance/Extent/Significance	
Food for humans	Sustenance for humans (e.g., fish, molluscs, grains)	High	
Fresh water	Water for irrigated agriculture	High	

Regulating Services

regulating oct vices			
Ecosystem service	Examples	Importance/Extent/Significance	
Maintenance of hydrological regimes	Groundwater recharge and discharge	e and High	
Climate regulation	Local climate regulation/buffering of change	High	
Hazard reduction	Flood control, flood storage	High	

Cultural Services

Cultural Services				
Ecosystem service	Examples	Importance/Extent/Significance		
Recreation and tourism	Nature observation and nature-based tourism	Medium		
Scientific and educational	Educational activities and opportunities	High		

Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance
Biodiversity	Supports a variety of all life forms including plants, animals and microorganizms, the genes they contain, and the ecosystems of which they form a part	High
Nutrient cycling	Storage, recycling, processing and acquisition of nutrients	High

Within the site:	1000
Outside the site:	1000

Have studies or assessments been made of the economic valuation of ecosystem services provided by this Ramsar Site? Yes ○ No ○ Unknown ◎

4.5.2 - Social and cultural values

i) the site provides a model of wetland wise use, demonstrating the	
application of traditional knowledge and methods of management and	
use that maintain the ecological character of the wetland	

ii) the site has exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland

iii) the ecological character of the wetland depends on its interaction with local communities or indigenous peoples

Description if applicable

The site has been traditionally used for agriculture along the banks and local sustenance fishery. The local community has lived in harmony with the birds and other biota while justifiably using the resources for survival. This has helped in maintaining the ecological character of the wetland. However there have been instances of unplanned development in its catchment areas that can adversely impact the ecological character if it is not judiciously conserved.

iv) relevant non-material values such as sacred sites are present and their existence is strongly linked with the maintenance of the ecological character of the wetland

4.6 - Ecological processes

The wetland is an important part of the Central Asian Flyway. The wetland in fertile Gangetic landscape has several species of insects and endemic fishes that provide nutrition to the migratory birds.

(ECD) Pressures and trends concerning any

The pressures is the changing against the extensive particular particular and fertilizers that can impa

of the above, and/or concerning ecosystem integrity

The pressure is the changing agriculture pattern with overuse of pesticides and fertilizers that can impact the water quality and thereby fish and other associated fauna.

5 - How is the Site managed? (Conservation and management)

5.1 - Land tenure and responsibilities (Managers)

5.1.1 - Land tenure/ownership

-				
Pill	ገዘሰ	own	ers	hin

Category	Within the Ramsar Site	In the surrounding area
Provincial/region/state government	/	

Private ownership

Category	Within the Ramsar Site	In the surrounding area
Other types of private/individual owner(s)		✓

Provide further information on the land tenure / ownership regime (optional):

Out of total GIS boundary of 590Ha of proposed site, 565Ha is notified sanctuary rest is acquired government land. The area surrounding the permanently inundated area are agricultural and owned by raiyats.

5.1.2 - Management authority

agency or organization responsible for	Divisional Forest Officer, Sahibganj Forest Division, Sahibganj
managing the site:	
Provide the name and/or title of the person	Mr. Manish Tiwari.
or people with responsibility for the wetland:	Wil. Wallish Tiwan.
,	
Postal address:	Office of the Divisional Forest Officer, Godabadi Hatiya, Sahibganj- 816109, Jharkhand.
E-mail address:	dfo-sahebganj@gov.in

5.2 - Ecological character threats and responses (Management)

5.2.1 - Factors (actual or likely) adversely affecting the Site's ecological character

Human settlements (non agricultural)

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Housing and urban areas	Low impact	Medium impact		✓
Tourism and recreation areas	Low impact	Low impact		2
Unspecified development	Medium impact	High impact		✓

Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Drainage	Low impact	Low impact	1	✓
Water abstraction	Medium impact	Medium impact	V	✓

Agriculture and aquaculture

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Annual and perennial non- timber crops	Low impact	Low impact	A	✓

Energy production and mining

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Mining and quarrying	Low impact	Low impact		✓

Transportation and service corridors

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Roads and railroads	Low impact	Low impact	✓	✓

Biological resource use

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Fishing and harvesting aquatic resources	Medium impact	Medium impact	 ✓	✓

Human intrusions and disturbance

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Recreational and tourism activities	Low impact	Low impact	✓	✓

Natural system modifications

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Vegetation clearance/ land conversion	Medium impact	High impact	1	✓

Invasive and other problematic species and genes

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Invasive non-native/ alien species	Medium impact	Medium impact	✓	

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area	
Household sewage, urban waste water	Low impact	Low impact	1	✓	
Agricultural and forestry effluents	Low impact	Low impact	/	✓	
Garbage and solid waste	Medium impact	Medium impact	✓	✓	

Geological events

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Unspecified	Low impact	Low impact	✓	✓

Climate change and severe weather

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Habitat shifting and alteration	Low impact	Low impact	1	✓
Storms and flooding	Low impact	Low impact	✓	✓

Please describe any other threats (optional):

Changing rainfall patterns has resulted in creation of aquaculture ponds in the landscape by locals for sustenance. Prolonged and increased usage and conversion can in the long term affect the ecological character of the wetland.

5.2.2 - Legal conservation status

Global legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Other global designation	Udhwa Lake Bird Sanctuary	http://datazone.birdlife.org/ind ex.php/site/factsheet/udhwalake- iba- india	whole

National legal designations

	Designation type	Name of area	Online information url	Overlap with Ramsar Site
	Sanctuary	Udhwa Lake Bird Sanctuary	http://www.wiienvis.nis.in/Datab ase/wls_8230.aspx	whole

Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	Udhwa Lake Bird Sanctuary	http://www.wiienvis.nic.in/Datab ase/IBA_8463.aspx	whole

5.2.3 - IUCN protected areas categories (2008)

la Strict Nature Reserve	
rotected area managed mainly for wilderness protection	lb Wildernes
protected area managed mainly for ecosystem protection and recreation	II Nationa
otected area managed mainly for conservation of specific natural features	III Natural Monu
gement Area: protected area managed mainly onservation through management intervention	IV Habitat/Speci
Seascape: protected area managed mainly for scape/seascape conservation and recreation	V Protected Lan

VI Managed Resource Protected Area: protected area managed mainly for the sustainable use of natural ecosystems

5.2.4 - Key conservation measures

Legal protection

Measures	Status	
Legal protection	Implemented	

Habitat

Measures	Status
Habitat manipulation/enhancement	Proposed
Re-vegetation	Proposed
Land conversion controls	Implemented
Faunal corridors/passage	Implemented

Species

Measures	Status	
Control of invasive alien plants	Implemented	

Human Activities

Measures	Status
Fisheries management/regulation	Implemented
Harvest controls/poaching enforcement	Partially implemented
Regulation/management of wastes	Partially implemented
Communication, education, and participation and awareness activities	Partially implemented

5.2.5 - Management planning

Is there a site-specific management plan for the site? Yes

Has a management effectiveness assessment been undertaken for the site?

If the site is a formal transboundary site as indicated in section Data and location > Site location, are there shared management planning Yes O No

processes with another Contracting Party?

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? Yes, there is a plan

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Water regime monitoring	Proposed
Water quality	Proposed
Birds	Implemented
Plant community	Proposed
Animal species (please specify)	Proposed

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

Published papers

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N. K. Sharma, N. J. Kullu, P. K. Swain and A. T. Jeyaseelan (2012) Geospatial Analysis of Wetlands in Jharkhand Using Multi-Temporal Satellite Data Journal of Remote Sensing & GIS Volume 3, Issue 3, December 2012, Pages 22-30

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Rahmani, A. R., Islam, M. Z. and Kasambe, R. M. 2016. Important Bird and Biodiversity Areas in India: Priority Sites for Conservation (Revised and updated). Bombay Natural History Society, Indian Bird Conservation Network, Royal Society for the Protection of Birds and Bird Life International (U.K.). Pp. 1992 + xii.

Sharma Rashmi Rani, Verma Rohit Kumar, Bhattacharya Tanmay and Surendra Prasad Roy (2020) Assessment of heavy metals pollution in sediments of Udhwa and Simultalla lakes of Jharkhand International Journal for Innovative Research in Multidisciplinary Field ISSN: 2455-0620 Volume – 6(11): 20-24.

Singh Navneet, Ahmad Jalil and Rahul Joshi (2017) Diversity of moths (Lepidoptera) with new faunistic records from Northeast Jharkhand, India. Rec. zool. Surv. India: Vol. 117(4): 326-340.

Reports

Choudhary, S. K., Mishra, A., Ghosh, T. K. and A. Jha (1992) Udhuwa Lake Bird Sanctuary: Status Report I. Mandar Nature Club, Bhagalpur. Pp. 26

Manish Kumar Mishra, and A Mishra (2002) Draft Report Biodiversity Strategy & Action Plan for Jharkhand. Report by Mandar Nature Club (MNC) Bhagalpur, Bihar - 812002, India

Wetlands International South Asia (2020) Asian Waterbird Census: Results for Coordinated January Counts for India 2006-2015. Wetlands International, India. pp 80

District Census Handbook Sahibganj (2011) Series 21, Part XII A. Directorate of Census Operations, Jharkhand. pp 903

6.1.2 - Additional reports and documents

i, taxonomic lists of plant and animal species occurring in the site (see section 4.3)

ii. a detailed Ecological Character Description (ECD) (in a national format) <no file available:

iii, a description of the site in a national or regional wetland inventory

iv. relevant Article 3.2 reports

v. site management plan

vi. other published literature

6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site



Landscape view of Udhwa Lake Bird Sanctuary (Sunilkumar Gupta, SACON Coimbatore 29-11-2023



Black headed Ibis with its prey (Frog species) in Udhwa Lake Bird Sanctuary Coimbatore, 29-11-2023)



the dried emergent rooted vegetation in Udhwa lake Bird Sanctuary (Sunilkuma Gupta, SACON Coimbatore 29-11-2023)



Agricultural landscape and Avian diversity of Udhwa Lake Bird Sanctuary (Sunilkumar Gupta, Coimbatore, 25-03-2023



Lesser Adjutant Stork in Udhwa Lake Bird Sanctuary (Siddhesh D. Bhave ACON Coimbatore, 24-03-



livelihood and the domestic life stalk (Prathamesh Gurjarpadhaye, SACON Coimbatore, 30-03-2023)



Avian diversity of Udhwa Lake Bird Sanctuary (amesh Gurjarp SACON Coimbatore, 23-03



in Udhwa Lake Bird Sanctuary (Siddhesh D. Bhave, SACON Coimbatore, 24-03-2023)



Landscape of Udhwa Lake Bird Sanctuary (Siddhesh D. Bhave, SACON Coimbatore, 29-11-2023



Flock of Black Headed Ibis wa Lake Bird Sanctuary (Siddhesh D. Bhave, SACON Coimbatore 29-11-2023)



Entry gate of the Udhwa Lake bird sanctuary (Goldin Quadros, SACON Coimbatore, 30-11-2023



Removal of Eichhornia crassipes using Jute coir as floats from the Udhwa lake bird sanctuary (
Manishkumar Mishra, Manishkumar misira, Sahibganj Forest Department, Jharkhand, 16-10-2023)



Pheasant tailed Jacana and water lily in Udhwa lake bird sanctuary (Manishkurrar Mishra, Sahibganj Forest Department, Jharkhand, 07-11-2023)



Udhwa Lake Bird Sanctuary Interpretation Centre (Manishkumar Mishra, Sahibgani Forest Department, Jharkhand, 02-12-2023)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 2024-01-08