

Ramsar Information Sheet

Published on 1 February 2020

IndiaSarsai Nawar Jheel



Designation date 19 September 2019

Site number 2411

Coordinates 26°58'08"N 79°15'02"E

Area 161,27 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

Sarsai Nawar comprises of permanent marsh wetland, located in Indo-Gangetic floodplain landscape of Etawah district. Covering an area of 161.27 hectares, this shallow marsh is surrounded by agricultural fields and is mostly fed by precipitation run-off. The wetland derives its name from sarus crane (Grus antigone) and is considered to be the roosting area of the largest flock of sarus crane in the region, consisting of nearly 400 individuals. Three resident species of storks, namely painted stork (Mycteria leucocephala), Asian woolly-necked stork (Ciconia episcopus) and black-necked stork (Ephippiorhynchus asiaticus) feed in the wetland round the year. The wetland is an important wintering site for a number of migratory bird species of Central Asian flyway notably northern pintail (Anas acuta), Eurasian wigeon (Anas penelope), barheaded goose (Anser indicus) and greylag goose (Anser anser). The wetland also supports a considerable population of flap-shell turtle (Lissemys punctate) and many families of the common mongoose (Herpestes javanicus). Nut sedge (Cyperus rotundus) forms the dominant vegetation of the wetland, which also provides habitat to many grasses and water lilies. The catchment is intensely cultivated. Hajari Mahadev temple located inside the wetland is highly revered in the region.

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

Compiler 1

Name Range Officer Bharthana

Institution/agency UP Forest and Wildlife Department

Office of the Divisional Director
Social Forest Division, Etawah
Uttar Pradesh

E-mail dfo.etawah@gmail.com

Phone +919456669011

Compiler 2

Name Authorized Officer, UPSWA

Institution/agency Uttar Pradesh State Wetlands Authority

Uttar Pradesh State Wetlands Authority
UP Forest Department Head Quarters
17, Rana Pratap Marg
Lucknow
Uttar Pradesh

E-mail upstatewetlandauthority2018@gmail.com

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

From year 2015

To year 2018

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)

Sarsai Nawar 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 wetland is surrounded by settlements on all sides. To the north are Town Kishni and Village Murcha. Village Chamarpur Rudrapur and Village Kuita form the southern side. The settlements of Village Kadampur, Andandpur and Usrahar are located on the eastern boundary whereas, Trirkhi Trilokpur and Bhadarpura for the southern end.

The boundary coincides with that of Sarsai Nawar Bird Sanctuary.

2.2.2 - General location

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

Takha tehsil, Etawah District, Uttar Pradesh

b) What is the nearest town or population centre?

Kishni (Mainpuri)

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): 161.27

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

2.2.5 - Biogeography

Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
Freshwater Ecoregions of the World (FEOW)	Ganges Delta and Plain

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

Justification

The wetland is a habitat for a number of waterbirds, fish and turtle species. The site has been identified as an Important Bird Area on the basis of congregation of Sarus and other waterbirds.

☑ Criterion 5 : >20,000 waterbirds

Overall waterbird numbers 75000

Start year 2015

Source of data: Asian Waterbird Census

☑ Criterion 7 : Significant and representative fish

The wetland is a breeding and spawning ground for several riverine fish species, including rohu (Labeo Justification rohita), catla (Catla catla), Mystus sp. and other species. Floodplain wetlands like Sarsai Nawar play an important role in maintaining fish diversity within the River Ganga and her tributaries.

☑ Criterion 8 : Fish spawning grounds, etc.

The wetland provide spawning grounds to a number of fish species like Cirrhinus mrigala, Gibelion catla, Heteropneustes fossilis and Sperata seenghala.

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

<no data available>

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

Phylum	Scientific name	Common name	Species qualifies under criterion 2 4 6 9	Species contributes under criterion 3 5 7 8	Pop. Size	% occurrence	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
Birds											
CHORDATA/ AVES	Anas acuta	Northern Pintail					LC				Winter migrant.
CHORDATA/ AVES	Anas penelope	Eurasian Wigeon]		LC				Winter migrant.
CHORDATA/ AVES	Anser anser	Greylag Goose]		LC				Winter migrant.
CHORDATA/ AVES	Anser indicus	Bar-headed Goose]		LC				Winter migrant.
CHORDATA/ AVES	Aquila clanga	Greater Spotted Eagle]		VU				Uses wetland as a habitat.
CHORDATA/ AVES	Ciconia episcopus	Woolly-necked Stork]		VU				Uses the wetland as habitat.
CHORDATA/ AVES	Ephippiorhynchus asiaticus	Black-necked Stork]		NT				Uses the wetland as habitat.
CHORDATA/ AVES	Grus antigone	Sarus Crane]		VU				Uses wetland as a habitat.
CHORDATA/ AVES	Gyps bengalensis	White-rumped Vulture]		CR		\checkmark		Uses the wetland as habitat.
CHORDATA/ AVES	Haliaeetus Ieucoryphus	Pallas's Fish Eagle]		EN		\checkmark		Wetland is wintering site for the species.
CHORDATA/ AVES	Mycteria leucocephala	Painted Stork]		NT				Uses the wetland as habitat.
Fish, Mollusc	and Crustacea										
CHORDATA/ ACTINOPTERYGI	Cirrhinus mrigala						LC				Spawns in the wetland.
CHORDATA/ ACTINOPTERYGI	Gibelion catla	Catla catla			9		LC				Spawns in the wetland.
CHORDATA/ ACTINOPTERYGI	Heteropneustes I fossilis				9		LC				Spawns in the wetland.
CHORDATA/ ACTINOPTERYGI	Sperata seenghala				9		LC				Spawns in the wetland.

¹⁾ Percentage of the total biogeographic population at the site

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

<no data available>

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

4.1 - Ecological character

Sarsai Nawar is a natural depression that fills up during the monsoon. The wetland is the roosting area of the largest flock of sarus crane (Grus antigone) in the region, consisting of nearly 400 individuals. In addition to sarus, a vast number of waders, ducks, and geese visit the lake in winter. Three resident species of storks, namely the painted stork (Mycteria leucocephala), Asian woolly necked stork (Ciconia episcopus), and black-necked stork (Ephippiorhynchus asiaticus) feed in the lake throughout the year. The wetland is unusual in that the principal vegetation is common nut sedge (Cyperus rotundus), and there is no emergent vegetation. A very old Shiva temple adjoins the wetland and is visited by thousands of pilgrims each year, particularly during the Shivaratri festival in the first week of March.

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 > Marshes on inorganic soils >> Tp: Permanent freshwater marshes/ pools		1	161	

4.3 - Biological components

4.3.1 - Plant species

Other noteworthy plant species

Common name	Position in range / endemism / other
Indian tree of heaven	
Indian Lilac	
Christ's thorn	
Lime	
Nut grass	
Indian Elm	
Cadam	
Hongay oil tree	
Black plum	
Arjun	
	Indian tree of heaven Indian Lilac Christ's thorn Lime Nut grass Indian Elm Cadam Hongay oil tree Black plum

Invasive alien plant species

That the all of plant operated					
Scientific name	Common name	Impacts			
Eichhornia crassipes	Water hyacinth	Potentially	No change		

4.3.2 - Animal species

Other noteworthy animal species

Phylum	Scientific name	Common name	Pop. size	Period of pop. est.	%occurrence	Position in range /endemism/other
CHORDATA/MAMMALIA	Herpestes javanicus	Small Asian Mongoose				

4.4 - Physical components

4.4.1 - Climate

Climatic region	Subregion
C: Moist Mid-Latitude climate with mild winters	Cwa: Humid subtropical (MId with dry winter, hot summer)

The climate is sub-humid and it is characterised by a pleasant cold season and a hot dry summer .The temperature here averages 25.8 °C. The average annual rainfall is 791.6 mm. About 90% of rainfall takes place from June to September.

4.4.2 - Geomorphic setting

a) Mnimum elevation above sea level (in metres)
a) Maximum elevation above sea level (in metres)
Entire river basin
Upper part of river basin

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Presence?	
Usually permanent water present	No change

Source of water that maintains character of the site

Presence?	Predominant water source	
Water inputs from rainfall	✓	No change

Water destination

Presence?	
Feeds groundwater	No change

Stability of water regime

Presence?	
Water levels fluctuating (including tidal)	No change

4.4.5 - Sediment regime

Significant erosion of sediments occurs on the site \square
Significant accretion or deposition of sediments occurs on the site \Box
Significant transportation of sediments occurs on or through the site \qed
Sediment regime is highly variable, either seasonally or inter-annually $\hfill\Box$
Sediment regime unknown ☑

4.4.6 - Water pH

4.4.7 - Water salinity

Acid (pH<5.5) □ Circumneutral (pH: 5.5-7.4) Alkaline (pH>7.4) Unknown \square 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

4.4.8 - Dissolved or suspended nutrients in water

Eutrophic Mesotrophic Oligotrophic Dystrophic Unknown 🗹

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 i) broadly similar O ii) significantly different 🖲 site itself:

RIS for Site no. 241	1, Sarsai Nawar Jhee	l, India	
Surrounding area has greater urbanisation or development			
Surrounding area has higher human population density			
Surround	ing area has more intensive a	igricultural use 🗹	
Surrounding area has sig	nificantly different land cover o	or habitat types	
4.5 - Ecosystem s	services		
4.5.1 - Ecosystem serv	ices/benefits		
Provisioning Services		F (10) 'F	
Ecosystem service	Examples Water for irrigated	Importance/Extent/Significance	
Fresh water	agriculture	Low	
Regulating Services	Framulas	Innocetores /Fistoret/Cinnificance	
Ecosystem service Maintenance of hydrological	Examples Groundwater recharge and	Importance/Extent/Significance	
regimes	discharge	High	
- "			
Cultural Services Ecosystem service	Examples	Importance/Extent/Significance	
Spiritual and inspirational	Spiritual and religious		
opiniuai anu inspirationai	values	High	
Scientific and educational	Educational activities and opportunities	Medium	
L		1	
Supporting Services		T (10) I	
Ecosystem service	Supports a variety of all life	Importance/Extent/Significance	
	Supports a variety of all life forms including plants,		
Biodiversity	animals and microorganizms, the genes	High	
Diodiversity	they contain, and the	1 11911	
	ecosystems of which they form a part		
	Within the site: 5000		
	Outside the site: 10000		
	Outside the site: 10000		
Have studies or assessme	ents been made of the econor	nic valuation of	
ecosys	stem services provided by this	Ramsar Site?	
4.5.2 - Social and cultu	ral values		

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

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

iii) the ecological character of the wetland depends on its interaction $\ensuremath{\slash\hspace{-0.4em}\overline{\hspace{-0.4em}\hspace{-0.4em}}}$ with local communities or indigenous peoples

Description if applicable

The farming practices in the wetland play an important role in sustenance of waterbird habitats, particularly that of Sarus crane.

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

4.6 - Ecological processes

<no data available>

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

5.1 - Land tenure and responsibilities (Managers)

5.1.1 - Land tenure/ownership

ı ub	lic owners	u III

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)	/	2

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

A large part of the wetland area is owned by the Gram Panchayat. Private land within the Ramsar Site is used for farming.

5.1.2 - Management authority

agency or organization responsible for Chief Conservator of Forest, Kanpur circle, Kanpur.

Range Forest Officer, Sarsai nawar Wetland, Bharthana, Etawah. Please list the local office / offices of any Divisional Director, Social Forestry Division Etawah.

managing the site: Chief Conservator of Forest, Endangered Project, Lucknow.

Uttar Pradesh State Wetlands Authority

Provide the name and title of the person or people with responsibility for the wetland:

Satyapal, Divisional Director (Social Forestry)

Office of the Divisional Director (Social Forestry Division) Forest Park Postal address:

Near Awas Vikas Etawah-206001.

E-mail address: dfo.etawah@gmail.com

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)

affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Unspecified development	unknown impact	unknown impact		✓

Water regulation

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

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	Medium impact	✓	>

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	Low impact	Medium impact	✓	

Climate change and severe weather

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Droughts	Low impact	Medium impact	€	✓

5.2.2 - Legal conservation status

Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	Sarsai Nawar Lake		whole

5.2.3 - IUCN protected areas categories (2008)

la Strict Nature Reserve
lb Wilderness Area: protected area managed mainly for wilderness protection
II National Park: protected area managed mainly for ecosystem protection and recreation
III Natural Monument: protected area managed mainly for conservation of specific natural features
IV Habitat/Species Management Area: protected area managed mainly for conservation through management intervention
V Protected Landscape/Seascape: protected area managed mainly for landscape/seascape conservation and recreation
VI Managed Resource Protected Area: protected area managed mainly

for the sustainable use of natural ecosystems

5.2.4 - Key conservation measures

Legal protection

Legal protection		
	Measures	Status
	Legal protection	Implemented

Habitat

Measures	Status
Habitat manipulation/enhancement	Partially implemented

Species

Measures	Status
Threatened/rare species management programmes	Partially implemented
Control of invasive alien plants	Partially implemented

Human Activities

Measures	Status
Communication, education, and participation and awareness activities	Partially implemented
Research	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 \odot 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
Birds	Implemented
Water quality	Implemented

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

BirdLife International (2019) "Important Bird Areas factsheet: Sarsai Nawar Lake". [online] Available at: http://datazone.birdlife.org/site/factsheet/sarsai-nawar-lake-iba-india [Accessed 15/01/2020].
Singh, P. (2006). "Perspectives in Plant Ecology and Environmental biology". Jodhpur: Scientific Publishers.
Gopi Sundar, K.S. (2006). "Flock Size, Density and Habitat Selection of Four Large Waterbirds Species in an Agricultural Landscape in Uttar Pradesh, India: Implications for Management," Waterbirds, 29(3), 365-374.

6.1.2 - Additional reports and documents

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

<no file available>

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

<no file available>

iv. relevant Article 3.2 reports

<no file available>

v. site management plan

<1 file(s) unloaded>

vi. other published literature

<no file available>

6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site



A panoramic view of Sarsai Nawar (*Vishal Pratap Singh*, 29-08-2019)



The wide span of Sarsai Nawar (*Vishal Pratap Singh*, 29-08-2019)



Aquatic vegetation at Sarsai Nawar bird Sanctuary (*UP* State Wetland authority, 23-12-2019)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 2019-09-19