

Check List of Birds from Satapur Water Body, Renjal Mandal Dist. Nizamabad, Telangana



Zoology

KEYWORDS : Satapur, Nizamabad, Telangana

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ABSTRACT

Satapur water body is situated in Satapur Village, Renjal Mandal, District Nizamabad. This water body is undisturbed and plenty of marshy places are available here. This is really good place for watching of migratory birds. The study was carried out during March, 2012 to March, 2014 for two years. In this study, total 69 bird species belonging to 39 different families were identified and recorded. Among these 40 species are Resident Common (RC), 6 Resident Migrant Common (RMC), 3 Winter Migrant Common(WMC), 4 are Resident rare (RR), 6 are Resident Uncommon(RU), 1 is Resident Migrant(RM), 6 are Winter Migrant Uncommon (WMU) and 1 species is Resident Migrant Uncommon(RMU). Painted stork near threatened by IUCN (2011) also recorded during the study in flocks.

Introduction

Birds have functional role in the ecosystem as potential pollinators, scavengers and rightly called as bio indicator (Kulkarni et al, 2006). Avian fauna occupies a special position in an aquatic ecosystem. They play an important role in controlling population of different insects and pests. The variety of avian species in ecosystems reflects the well being of its habitat. Birds are the indicators of environment and are being used for conservation and environmental impact assessment (Gregory et al, 2003). Wetland is a special type of ecosystem which supports to the variety of local and migratory bird species by providing the specific habitat component such as abundant food to the herbivores and carnivores bird species. The small natural lakes and manmade reservoirs are acting as a typical wetland ecosystems and provide the habitat to local and migratory birds and play a key role in maintaining the balance in nature. Therefore the frequent visits of migratory birds at lakes and wetland ecosystem is acting as an indicator of good and healthy ecosystem where there is a balance in the living and non living components (Nalawade et al., 2008).

Researchers have studied avian fauna in different parts of Andhra Pradesh, but in Nizamabad district Avian fauna at Satapur water tank is unexplored as yet and hence the present work was carried out to enlist, identify and record various species of birds to have baseline information for future in depth studies.

Materials and Methods

Satapur reservoir is a minor irrigation reservoir. It is 40 km from Nizamabad city. The irrigation reservoir infested with *Ipomea aquatica*, *Prosopis julifera*, *Hyptis suaveolens* etc. shrubs and trees like *Acacia arabica*, *Inga dulce*, *Phoenix sylvestris*, *Borassus flabellifer* etc. are important part of flora in this region. The surrounding land is cultivated mainly with *Oryza sativa*, *Zea mays*, *Cajanus cajan* etc.

The water body is rich with avian fauna. The present report is based on the observation made from March, 2012 to March, 2014. Regular monthly visits were made to the study station. Survey of avian fauna was carried out by using line transect method (Gaston, 1973) birds were sighted by using binoculars of 7X and 8X magnification and spot identification was done as per Ali & Ripley(1983); Ali (1996). The sighted birds were photographed by using Sony Cyber Shot Camera model No.W570 and DSC-S800. The scientific and local names were given as per Manakadan and Pittie (2001). A check list is prepared as per Abdulali (1981).

The status of bird is categorized as Resident Common (RC), Resident Migrant Common (RMC), Winter Migrant Common

(WMC), Resident rare (RR), Resident Uncommon (RU), Migrant (Mr), Resident Migrant (RMr), Winter Migrant Uncommon (WMU), Resident Migrant Uncommon (RMU).

Results & Discussion

During the study total 69 bird species belonging to 39 families were identified and recorded described in Table No.1. Among them 40 species belongs to the category RC, 6 to RMC, 3 to WMC, 04 to Rr, 6 to RU, 1 to RM, 6 to WMU and 1 species belongs to the category RMU.

Apart from this Red vented Bulbul, Cattle Egret, Red-wattled Lapwing, Blue Rock Pigeon, Spotted Dove, Ring Dove, Little Egret, Indian Pond Heron, Rose ringed Parakeet, Crow Pheasant, Small Bee-eater, Common Swallow, Black Drongo, Common Myna, Indian Roller and Indian Peafowl some common species were seen high in number throughout the years. This water body has marshy places and hence this is the favorite place for migratory birds. All the Winter Migratory Uncommon birds such as Comb Duck, Common Pochard, Northern Pintail, Cotton Teal, Ruddy Shelduck and Eurasian Spoonbill were recorded at the time of winter season during the two years of study. Painted stork near threatened by IUCN (2011) also recorded in flocks in winter. Resident rare bird Rosy Starling was observed early in the summer. Wire tailed swallow, Indian river Tern, Little Grebe and Little cormorant were seen as Resident Migrant Common. Winter Migrant Common was Black winged stilt, Common sand-piper and Common coot also recorded.

Diversity of birds in the Satapur reservoir, Dist. Nizamabad was compared with the nearby districts in Maharashtra state because no one can studied the biodiversity of birds in Telangana so far. Similar type of studies were carried out by Kulkarni et al (2006) recorded 18 Piscivorous bird species in Dongarkheda irrigation tank, Dist. Hingoli, Pawar et al (2010) recorded 95 bird species from three water reservoirs from Satara Dist., Kulkarni, et al., (2006) also recorded 93 species of birds in Shikhachiwadi Wadi, reservoir Dist. Nanded; Balkhande et al., (2012) recorded 53 species of birds on river Godavari near Dhangar Takli Tq. Purna Dist. Parbhani; Balkhande et al., (2012) recorded 50 species of birds near river Purna Dist. Parbhani. Laxmi Narayana et al (2013) recorded 66 species of birds in Sherpally, Nalgonda District, Andhra Pradesh; Balkhande et al., (2014) reported 32 bird species in Apparavpeth water tank. Tq. Kinwat .Dist. Nanded (M.S.) and Prasad et al (2014) recorded 164 bird species in Manjeera Wildlife Sanctuary, Medak District, Andhra Pradesh.

The present study indicates that there was more richness and diversity in the undisturbed habitat. This area is infested with Paddy farming and it comprises of more number of sources

(food, feeding sites, roosting, nesting sites, etc.). This suggest that the habitat i.e. availability of food, water, climatic conditions and surrounding vegetation are favorable for avian fauna. This is the potential site for bird observation and winter season, this water body has really home for all these birds.

Table No. 1. Shows the list of Birds sighted on Satapur reservoir Dist. Nizamabad during March 2012 to March 2014 along with their status & occurrence.

Sr.No	Family	Common Name	Scientific Name	Status	Occurrence
1	Laridae	Indian river tern	<i>Sterna aurantia</i>	RMC	++
2	Recurvirostridae	Black winged stilt	<i>Himantopus himantopus</i>	WMC	++++
3	Anatidae	Comb Duck	<i>Sarkidiornis melanotos</i>	WMU	+
4		Common Pochard	<i>Aythya ferina</i>	WMU	++
5		Northern Pintail	<i>Anas acuta</i>	WMU	++
6		Cotton Teal	<i>Nettapus coromandelianus</i>	WMU	+++
7		Ruddy Shelduck	<i>Todorna ferruginea</i>	WMU	+++
8	Ardeidae	Large Egret	<i>Ardea alba</i>	RU	++
9		Indian Pond Heron	<i>Ardeola grayii</i>	RC	++++
10		Cattle Egret	<i>Bubulcus ibis</i>	RC	++++
11		Little Egret	<i>Egretta garzetta</i>	RC	++++
12		Purple Heron	<i>Ardea purpurea</i>	RMr	+++
13		Grey Heron	<i>Ardea cinerea</i>	RMr	+++
14		Intermediate Egret	<i>Mesophoyx intermedia</i>	RC	+++
15	Rallidae	Common Coot	<i>Fulica atra</i>	WMC	++
16		Indian moorhen	<i>Gallinula Chloropus</i>	RC	++++
17		White breasted water hen	<i>Amaurornis phoenicurus</i>	RC	++++
18	Ciconiidae	Painted stork near threatened by IUCN (2011)	<i>Mycteria leucocephala</i>	RMC	++++
19		White-necked stork	<i>Ciconia episcopus</i>	RU	++
20	Megalaimidae	Coppersmith Barbet	<i>Megalaima haemacephala</i>	RC	++
21	Laniidae	Bay backed shrike	<i>Lanius vittatus</i>	RC	+++
22	Alcedinidae	White breasted kingfisher	<i>Halcyon smyrnensis</i>	RC	+++
23		Pied kingfisher	<i>Ceryle rudis</i>	RC	+++
24	Pyconotidae	Red vented Bulbul	<i>Pycnonotus</i>	RC	++++
25	Sturnidae	Common Myna	<i>Acridotheres tristis</i>	RC	++++
26		Brahminy Myna	<i>Sturnus pagodarum</i>	RC	+++
27		Pied Myna	<i>Gracupica contra</i>	Rr	++
28		Rosy Starling	<i>Pastor roseus</i>	RMU	++
29	Meropidae	Small Bee Eater	<i>Merops orientalis</i>	RC	++++
30	Charadriidae	Red- wattled Lapwing	<i>Vanellus indicus</i>	RC	++++
31		Yellow -wattled Lapwing	<i>Vanellus malabaricus</i>	RC	++
32	Oriolidae	Indian Oriole	<i>Oriolus kundoo</i>	RC	+++
33	Podicipedidae	Little Greb	<i>Tachybaptus ruficollis</i>	RMC	++
34	Ploceidae	Baya Weaver	<i>Ploceus philippinus</i>	RC	++++
35	Threskiornithidae	Eurasian Spoonbill	<i>Platalea leucorodia</i>	WMU	+++
36		Black ibis	<i>Pseudibis papillosa</i>	RU	++
37		Oriental White ibis	<i>Threskiornis melanocephalus</i>	RU	++
38	Aegithinidae	Common iora	<i>Aegithina tiphia</i>	RC	++
39	Cuculidae	Indian Cuckoo	<i>Cuculus micropterus</i>	RM	++
40		Shikra	<i>Accipiter badius</i>	RC	+++
41		Black winged Kite	<i>Elanus caeruleus</i>	RC	+++
42		Asian Koel	<i>Eudynamys scolopacea</i>	RC	++++
43	Accipitridae	Pariah Kite	<i>Milvus migrans</i>	RC	+++
44	Cisticolidae	Tailor Bird	<i>Orthotomus sutorius</i>	RC	+++
45	Corvidae	House Crow	<i>Corvus corax</i>	RC	+++
46	Coraciidae	Indian Roller	<i>Coracias benghalensis</i>	RC	++++
47	Passerinae	House Sparrow	<i>Passer domesticus</i>	RC	+++
48	Nectariniidae	Purple rumped sun bird	<i>Nectarinia zeylonica</i>	RU	++++
49		Purple sun bird	<i>Nectarinia asiatica</i>	Rr	+++
50	Muscicapidae	Indian Robin	<i>Saxicoloides fulvicata</i>	RC	++++
51		Oriental Magpie Robin	<i>Copsychus saularis</i>	RC	++++
52	Bucerotidae	Indian grey Hornbill	<i>Ocyrceros birostris</i>	Rr	+
53	Hirundinidae	Common Swallow	<i>Hirundo rustica</i>	RMC	++
54		Wire-tailed Swallow	<i>Hirundo smithii</i>	RMC	++
55	Phalacrocoracidae	Little Cormorant	<i>Phalacrocorax niger</i>	RMC	+++
56	Psittacidae	Rose ringed parakeet	<i>Psittacula krameri</i>	RC	+++
57	Columbidae	Blue rock Pigeon	<i>Columba livia</i>	RC	++++
58		Spotted Dove	<i>Streptopelia chinensis</i>	RC	++++
59		Ring Dove	<i>Streptopelia capicola</i>	RC	++++
60	Phasianidae	Indian Peafowl	<i>Pava Cristatus</i>	RC	++++
61	Motacillidae	White Wagtail	<i>Motacilla alba</i>	RC	+++

62		Grey Wagtail	Motacilla cinerea	RC	+++
63	Dicruridae	Black Drongo	Dicrurus macrocer	RC	++++
64	Estrildidae	Red Munia	Amandava amandava	RC	++
65	Upupidae	Common Hoopoe	Upupa epops	Rr	++
66	Leiothrichidae	Large Grey babbler	Turdoides malcolmi	RC	++++
67	Cisticolidae	Ashy wren warbler	Prinia socialis	RC	+++
68	Scolopacidae	Common Sandpiper	Actitis hypoleucos	WMC	+++
69	Cuculidae	Crow Pheasant	Centropus sinensis	RC	++++

Abbreviations: Abundance (++++), Few (+++), Very few (++), Rare (+)

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