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Avifaunal Diversity of Sonegaon Tukum Lake Near Chandrapur (M.S.), India.

Harney, N.V.

Department of Zoology, Nilkanthrao Shinde Science and Arts College, Bhadrawati- 442902, Dist- Chandrapur (M.S.) India.

Abstract

There are numerous species of bird found in a wide variety of habitats all around the world. Birds are one of the most thriving groups of animals on the planet as they generally have their habitat (the skies) to themselves.

Birds are essential animal group of an ecosystem and maintain a trophic level. Therefore, detail study on avifauna and their ecology is important to protect them. The present investigation was carried out to document the avifauna in and around the Sonegaon tukum lake located 52 km South to Chandrapur district of Maharashtra State and the study is from October 2022 to September 2023 in which 99 species of birds were recorded of 22 different orders and 54 families during the study. Among the recorded species 74 were resident, 17 were resident migrant and 08 were migratory.

Key words- Avifauna, Sonegaon tukum lake, avifaunal diversity.

Introduction:

Diversity of avifauna is one of the most important ecological indicators to evaluate the quality of habitats. Now-a-days, avifaunal diversity has been decreasing due to the destruction of natural habitats and human disturbances. Random destruction of natural habitats by cutting nesting trees and foraging plants for commercial use of woods and lands are the main factor responsible for narrow down in avian foraging habitat and their nesting sites. Thus, many species of birds may be forced to inhabit in the urban areas and constrain them to breed there.

Birds are found throughout the world, at approximately all altitudes and in nearly every climate. They are a natural way to control pests in gardens, on farms, and other places. They aid in the pollinization of plants. By landing on a plant or sucking the nectar from a flower, and then moving on to the next, a bird does the job usually associated with bees. Birds also have a good system for spreading seeds. They eat berries and then when they "dispose of" their waste, the berry seeds are disposed along with it. Bird feces provide good fertilization for the seeds with which they are dropped, giving seeds very good conditions with which to grow.

The Sonegaon tukum lake is freshwater body situated in Chandrapur district and the area of this lake is spread over near about 34.59 acre. It is situated at about 246 m. above mean sea level and is at 79° 14'15.33" E longitude and 20° 19'56.69" N latitude. The water of this lake is primary used for washing, bathing and fishing activities.

During the last few decades considerable studies on avifauna diversity from different freshwater bodies of India have been carried out by researchers like, Osmatston (1922), Singh (1929), Ali (1932), Kannon (1980), Davidar (1985), Jhingram (1988), Ghazi (1962), Mujumdar (1984), Newton *et al.*, (1986), Ghosal (1995), Kulkarni *et al.*, (2005), Yardi *et al.*, (2004) and Wadatkar and Kasambe (2002). However very little information is available about avifauna of centre India.

The lake harbor a large number of fauna which attract the birds shown that the entire lake basin is highly productive and conducive to all kinds of birds. This lake is harbors a number of aquatic weeds in the submerged as well as floating state on which thrive a large number of organisms. Due to abundant food available throughout the year in Sonegaon tukum lake in the form of aquatic crustaceans, insects, molluscs etc. the lake always attracts a large number of birds throughout year.

Material and methods:

The present work was carried out from October 2022 to September 2023. The observation were carried out by using a field binocular (7x25x magnification) during the morning (6 to 10 AM) and in the evening (4 to 6 PM) and identification of species was done with the help of standard literature of Woodcock (1980), Ali, S. and Ripley, S.D. (1995) and Grimmet *et al.*, (1999).

Result and Discussion:

Results of this study are valuable, as they serve as baseline information in the development of measures and strategies that will safeguard the wetland from destruction. Likewise, results of this study will also enable us to be aware of the ecological condition of our environment, as birds are important ecological indicators responsive to changes in the environment.

During the present investigation, a total of 99 birds species belonging to 22 different orders and 54 families were recorded from this lake. Among the recorded order the species of birds, 30 species belongs to Passeriformes, 12 species belongs to Charadriiformes, 11 species belongs to species belongs to Ciconiformes,

7 species belongs to Coraciformes, 5 species belongs to Columbiformes, 4 species each belongs to Galliformes, Psittaciformes and Anciriformes, 3 species belongs to Cuculiformes, 2 species each belongs to Piciformes and Falconiformes, Strigiformes and 1 each species belongs to Podicipediformes, Pelecaniformes, Galconiformes, Apodiformes, Caprimulgiformes, Pelecaniformes, Passerinae, Ploceinae, Gruiformes and Rhipiduridae.

Among the families recorded species of birds 7 species belongs to Scolopacidae families, 6 species belongs to Anatidae, 5 species belongs to Columbidae and Ardeidae, 4 species belongs to Gruidae, Sturnidae and Muscicapidae, 3 species belongs to Passeridae, Cuculidae and Ciconidae, 2 species each belongs to Charadriidae, Psittacidae, Cuculidae, Alcedinidae, Phasinidae, Lanidae, Muscicapidae, Corvidae, Estrildidae, Picidae, Strigidae, Scolopacidae and 1 species each belongs to Ardeidae, Glareolidae, Phalacrocoracidae, Recurvirostridae, Threskiornithidae, Podicipedidae, Meropidae, Coraciidae, Upupidae, Bucerotidae, Alcedinidae, Dicuridae, Pycnonotidae, Nectarinidae, Hirudinidae, Sylvidae, Campephagidae, Cisticolidae, Campephagidae, Zosteropidae, Cisticolidae, Alaudidae, Motacillidae, Apodidae, Strigidae, Phalacrocoracidae, Motacillidae, Oriolidae, Corvidae, Ploceinae, Phipiduridae and Rallidae.

Depending on different scientific classifications, as of today there are over 9000 birds species and more than 1250 in India, with almost 150 having become extinct after the arrival of Humans. 25 to 30 avian orders are recognized depending on the taxonomists. According to Osmaston (1922) studied 135 species of birds from Pachmari (M.P.), Ali (1939, 1940) published a list of 278 species of birds from central India, Mujumdar (1984) studied the collection from Baster district (M.P.), Newton *et al.*, (1986) have listed the birds of Kanha Tiger Reserve (M.P.), Ghosal (1995) have listed the birds of Kanha Tiger Reserve (M.P.), Wadatkar and Kasambe (2002) reported 171 species of birds at Pohara-Malkhed forest reservoir of Amravati district(M.S.), Yardi *et al.*, (2004) reported 64 species of birds in Salim Ali lake, Aurangabad(M.S.), Kedar and Patil (2005) recorded 60 birds species from Rishi lake Karanja (Lad) of Washim district(M.S.), Pawar *et al.*,(2005) reported 74 species of birds in and around Yedshi lake, Mangrulpir, Washim district(M.S.), Kulkarni *et al.*, (2005) reported 151 species of birds in and around Nanded city(M.S.), Kulkarni and Kanwate (2006) reported 18 species of birds in Dongarkhed irrigation of Hingoli district. (M.S.), Kulkarni *et al.*, (2006) reported 93 species of birds from Shikhachwadi reservoir of Nanded district(M.S.), Kedar *et al.*, (2008) recorded 74 species of birds in Rishi and Zedshi lake of Washim district(M.S.), Kanwate and Jadhao (2010) recorded 10 species of birds in Bhokar tahsil of Nanded district(M.S.), Kulkarni and Kanwate (2010) reported 62 species of birds of Jaldhara forest of Kinwat of Nanded district(M.S.), Thakor *et al.*, (2010) reported 104 species of birds from two reservoirs of Khed district, Gujrat, India. Kurhade (2010) reported 208 species of birds in Jaikwadi reservoirs near Ahmadnagar(M.S.), Narwade and Fartade (2011) recorded 165 species of birds of Osmanabad district(M.S.), Rasal and Chavan (2011) reported 61 species of birds in local ecosystem of Aurangabad(M.S.), Kukade *et al.*, (2011) recorded 68 birds species of Chhatri lake of Amravati district(M.S.), Harney, *et al.*, (2012) recorded 37 species of birds from Kanhala pond of Bhadrawati, District Chandrapur (M.S.), Joshi and K. Shrivastava (2012) reported 64 species of birds in Tawa reservoir of

Hoshangabad district(M.P.), Hippargi *et al.*, (2012) recorded 65 species of birds in a highly fragmented grassland patch near Solapur, Maharashtra and Patel *et al.*,(2012) recorded 70 species of birds of Mahi canal site of Nadiad(Gujrat state), Harney, *et al.*, (2013) recorded 37 species of birds from Kanhala pond with preference to feeding habits of Bhadrawati, District Chandrapur (M.S.) and Natarajan Mariappan *et al.*, (2013) recorded 92 species of birds from Different Habitats of Agricultural Ecosystem of Pollachi(T.N.) Manjunath, *et.al.*, (2014) recorded the occurrence of 26 species of birds belonging to 8 orders of 13 families in Shri Sharanabasaveshwara lake of Gulbarga District, Karnataka. Harney, N.V., A.A. Dhamani and R.J. Andrew (2011) Studies on avifaunal diversity of three water bodies near Bhadrawati, Distt. Chandrapur (MS), Harney, N.V., K.B. Bhute (2014) Diversity of avifauna in and around Chalbardi (Rai) lake near Bhadrawati, Distt. Chandrapur (M.S.), India, Harney, N.V. (2014) Avifaunal diversity of Ghotnimbala lake near Bhadrawati, Distt. Chandrapur (MS), India, Harney N.V. (2015) Avifaunal diversity of Junona lake near Chandrapur (M.S.), India. *Asian J. Multi. Stu.*, Vol. 3(1): 45-51, Harney N.V. (2015) Avifaunal diversity of Moharli lake near Chandrapur (M.S.), India. *IJGSR*. Vol.2(4): 255-264, Mahajan, V.S. and Harney, N.V. (2016) Avifaunal diversity of Mohabala lake near Bhadrawati, District- Chandrapur (M.S.), India, Shelekar, A.L. and Harney, N.V. (2017) Avifaunal diversity of Gorja lake near Bhadrawati, District- Chandrapur(M.S.), India, Bhute, K.B. and Harney, N.V. (2018) Avifaunal diversity of Nagrala lake of Bhadrawati tehsil in Chandrapur District, Maharashtra State, India, Khaparde, P.I. and Harney, N.V. (2018) Avifaunal diversity of Ghodpeth lake of Bhadrawati tehsil in Chandrapur District, M.S., India, Harney, N.V. (2020) Avifaunal diversity of Asolamendha dam of Chandrapur (MS), India, Shelekar, A.I and Harney, NV (2020) Avifaunal diversity of Jutpani lake of Dharni (Melghat), District- Amravati (M.S.), India, Bansod, MA and Harney, NV (2021) Avifaunal diversity of Ghotnimbala lake near Bhadrawati, Chandrapur(MS), India, Harney, N.V. (2022) Avifaunal Diversity of Fly Ash Pond of Chandrapur (MS), India.

The birds present in and around the Junona lake are affected by many factors such as organic pollution, distribution by human activities and lack of maintenance of lake and construction activities, yet the avifauna of Junona lake is diverse. Keeping in view the varied avifauna recorded, steps should be taken to do proper maintenance and beautification of the lakes.

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Table 1 Birds species in Sonegaon tukum Lake

Sr. No.	Order/Family	Scientific name	Common name	Habit
1.	Podicipediformes Podicipedidae	<i>Tachybaptus ruficollis</i>	Little Grebe	RM
2.	Ciconiformes Ardeidae	<i>Ardea cinerea</i>	Grey Heron	RM
3.	Ciconiformes Ardeidae	<i>Ardeola grayii</i>	Indian Pond Heron	R
4.	Ciconiformes Ardeidae	<i>Bubulcus ibis</i>	Cattle Egret	R
5.	Ciconiformes Ardeidae	<i>Casmerodius albus</i>	Large Egret	RM
6.	Ciconiformes Ciconidae	<i>Anastomus osciatus</i>	Asian Open Bill Stork	R
7.	Ciconiformes Ciconidae	<i>Ephippiorhynchus asiaticus</i>	Black Necked Stork	M
8.	Ciconiformes Threskiornithidae	<i>Pseudibis papillosa</i>	Black Ibis	RM
9.	Ciconiformes Scolopacidae	Gallinago gallinago	Common Snipe	R
10	Ciconiformes Ardeidae	<i>Mesophoyx intermedia</i>	Intermediate Egret	R
11	Ciconiformes Ciconiidae	<i>Mycteria leucocephala</i>	Painted Stork	M
12	Ciconiformes Ardeidae	<i>Egretta garzetta</i>	Little Egret	R
13	Anciriformes Anatidae	<i>Anas poecilorhyncha</i>	Spot Bill Duck	RM
14	Anciriformes Anatidae	<i>Nettapus coromandelianus</i>	Cotton Teal	M

Sr. No.	Order/Family	Scientific name	Common name	Habit
15	Falconiformes Anatidae	<i>Elanus caeruleus</i>	Black Winged Kite	R
16	Falconiformes Anatidae	<i>Milvus migrans</i>	Black Kite	R
17	Galliformes Phasinidae	<i>Fracolinus pondicerianus</i>	Grey Francolin	R
18	Galliformes Gruidae	<i>Amauromis phoenicurus</i>	White-Breasted Water Hen	R
19	Galliformes Gruidae	<i>Porphyrio porphyrio</i>	Purple Moorhen	R
20	Galliformes Gruidae	<i>Fulica atra</i>	Common Coot	M
21	Pelecaniformes Phalacrocoracidae	<i>Phalacrocorax niger</i>	Little Cormorant	RM
22	Charadriiformes Recurvirostridae	<i>Himantopus himantopus</i>	Black Winged Stilt	R
23	Charadriiformes Charadriidae	<i>Vanellus indicus</i>	Red wattle Lapwing	R
24	Charadriiformes Scolopacidae	<i>Actitis hypoleucos</i>	Common Sandpiper	RM
25	Charadriiformes Glareolidae	<i>Cursorius coromandelicus</i>	Indian Courser	R
26	Charadriiformes Scolopacidae	<i>Tringa nebularia</i>	Common Greenshank	RM
27	Charadriiformes Scolopacidae	<i>Tringa ochropus</i>	Green Sandpiper	M
28	Charadriiformes Scolopacidae	<i>Tringa glareola</i>	Wood Sandpiper	R
29	Charadriiformes Scolopacidae	<i>Tringa totanus</i>	Common Redshank	RM
30	Charadriiformes Scolopacidae	<i>Limosa limosa</i>	Black Tailed Godwit	RM
31	Charadriiformes Charadriidae	<i>Charadrius dubius</i>	Little Ring Plover	R

Sr. No.	Order/Family	Scientific name	Common name	Habit
32	Charadriiformes Scolopacidae	Philomachus pugnax	Ruff	R
33	Charadriiformes Scolopacidae	Gallinago stenura	Pintail Snipe	R
34	Columbiformes Columbidae	<i>Stigmatopelia senegalensis</i>	Little Brown Dove	R
35	Columbiformes Columbidae	Treron phoenicopterus	Yellow Footed Green Pigeon	R
36	Columbiformes Columbidae	Columba livia	Rock (Blue) Pigeon	R
37	Columbiformes Columbidae	Streptopelia decaocto	Eurasian Collared (Indian Ring) Dove	R
38	Columbiformes Columbidae	Streptopelia chinensis	Spotted Dove	R
39	Psittaciformes Psittacidae	<i>Psittacula krameri</i>	Rose Ringed Parakeet	R
40	Psittaciformes Cuculidae	<i>Eudynamis scolopaceus</i>	Asian Koel	R
41	Psittaciformes Cuculidae	<i>Centropus sinensis</i>	Greater Coucul	R
42	Psittaciformes Psittacidae	Psittacula cyanocephala	Plum Headed Parakeet	R
43	Coraciformes Alcedinidae	<i>Alcedo atthis</i>	Small Blue Kingfisher	RM
44	Coraciformes Alcedinidae	<i>Halycon smyrnesis</i>	White Breasted Kingfisher	R
45	Coraciformes Meropidae	<i>Merops orientalis</i>	Small Green Bee Eater	R
46	Coraciformes Coraciidae	<i>Coracias benghalensis</i>	Indian Roller	RM
47	Coraciformes Upupidae	<i>Upupa epops</i>	Common Hoopoe	RM
48	Coraciformes	Ocyroceros birostris	Indian Grey Hornbill	R

Sr. No.	Order/Family	Scientific name	Common name	Habit
	Bucerotidae			
49	Coraciformes Alcedinidae	<i>Ceryle rudis</i>	Pied Kingfisher	R
50	Passeriformes Lanidae	<i>Lanius schach</i>	Rufousbacked Shrike	R
51	Passeriformes Dicrudidae	<i>Dicrurus macrocercus</i>	Black Drongo	R
52	Passeriformes Sturnidae	<i>Acridotheres tristis</i>	Common Myna	R
53	Passeriformes Sturnidae	<i>Sturnia pagodarum</i>	Brahminy Starling	M
54	Passeriformes Pycnonotidae	<i>Pycnonotus cafer</i>	Red Vented Bulbul	R
55	Passeriformes Muscicapidae	<i>Turdoides striat</i>	Jungal Babbler	R
56	Passeriformes Muscicapidae	<i>Saxicolodius fulicatus</i>	Indian Robin	R
57	Passeriformes Necatarinidae	<i>Cinnyris asiaticus</i>	Purple Sunbird	R
58	Passeriformes Passeridae	<i>Hydrophasianus chirurgus</i>	Pheasant Tailed Jacana	R
59	Passeriformes Hirudinidae	<i>Hirundo rustica</i>	Common Swallow	RM
60	Passeriformes Laniidae	<i>Lanius vittatus</i>	Bay Backed Shrike	R
61	Passeriformes Sturnidae	<i>Sturnus pagodarum</i>	Brahminy Myna	R
62	Passeriformes Sturnidae	<i>Sturnus contra</i>	Pied Myna	R
63	Passeriformes Corvidae	<i>Corvus splendens</i>	House Crow	R
64	Passeriformes Corvidae	<i>Corvus macrorhynchos</i>	Jungal Crow	R
65	Passeriformes Sylviidae	<i>Chrysomma sinense</i>	Yellow Eyed Babbler	R

Sr. No.	Order/Family	Scientific name	Common name	Habit
66	Passeriformes Muscicapidae	Culicicapa ceylonensis	Grey Headed Canary Flycatcher	RM
67	Passeriformes Muscicapidae	Terpsiphone paradisi	Asian Paradise Flycatcher	RM
68	Passeriformes Muscicapidae	Copsychus saularis	Oriental Magpie Robin	R
69	Passeriformes Campephagidae	Tephrodornis pondicerianus	Common Woodshrike	R
70	Passeriformes Muscicapidae	Saxicola caprata	Pied Bushchat	R
71	Passeriformes Cisticolidae	Prinia socialis	Ashy Prinia	R
72	Passeriformes Campephagidae	Pericrocotus cinnaeus	Small Minivet	R
73	Passeriformes Zosteropidae	Zosterops palpebrosus	Oriental White Eye	R
74	Passeriformes Cisticolidae	Orthotomus sutorus	Common Tailorbird	R
75	Passeriformes Passeridae	Anthus rufulus	Paddy field Pipit	R
76	Passeriformes Alaudidae	Ereopterix grisea	Ashy Crowned Sparrow Lark	R
77	Passeriformes Motacillidae	Motacill maderaspatensis	White Browed Wagtail	R
78	Passeriformes Estrildidae	Amandava amandava	Red Aavadavat	R
79	Passeriformes Estrildidae	Lonchura malabarica	Indian Silverbill	R
80	Galconiformes Phasianidae	Pavo cristatus	Indian Peafowl	R
81	Piciformes	Dendrocopus	Yellow-Crowned	R

Sr. No.	Order/Family	Scientific name	Common name	Habit
	Picidae	mahrattensis	Woodpecker	
82	Piciformes Picidae	Dinopium benghalense	Black Rumped Flameback	R
83	Cuculiformes Cuculidae	Clamator jacobinus	Pied Cuckoo	R
84	Cuculiformes Cuculidae	Cuculus canorus	Common Cuckoo	R
85	Cuculiformes Cuculidae	Centropus parroti	Southern Coucal	RM
86	Strigiformes Strigidae	Otus bakkamoena	Collared Scops Owl	R
87	Strigiformes Strigidae	Athene brama	Spotted Owlet	R
88	Apodiformes Apodidae	Apus affinis	House swift	R
89	Caprimulgiformes Strigidae	Caprimulgus asiaticus	Indian Nightjar	R
90	Pelecaniformes Phalacrocoracidae	Phalacrocorax fuscicollis	Indian Cormorant	R
91	Motacillidae Oriolidae	Oriolus oriolus	Eurasian Golden Oriole	R
92	Passeridae Corvidae	Dendrocitta vagabunda	Rufous (Indian) Treepie	R
93	Passeridae Passerinae	Passer domesticus	House Sparrow	R
94	Passeridae Ploceinae	Ploceus philippinus	Baya Weaver	R
95	Gruiformes Gruidae	Grus antigone	Sarus Crane	R
96	Rhipiduridae Rhipiduridae	Rhipidura aureola	White Browed Fantail	R
97	Anseriformes Anatidae	Anser indicus	Bar Headed Goose	M

Sr. No.	Order/Family	Scientific name	Common name	Habit
98	Anseriformes Anatidae	Tadorna ferruginea	Brahminy shelduck	M
99	Gruiformes Rallidae	Amauornis phoenicurus	White-breasted Waterhen	R

R = Residential

M = Migratory

RM = Residential Migratory

