

Avifaunal Diversity of Kinhi Lake of Chandrapur District (M.S.), India

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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 Kinhi lake located 2 km from the tehsil headquarters in Sindewahi and around 68 km from the district headquarters in Chandrapur of Maharashtra State and the study is from October 2024 to September 2025 in which 92 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.

Keywords: Coll Avifauna, Kinhi lake, avifaunal diversity, laborative robots; cobots; human-robot collaboration; productivity; ergonomics; manufacturing flexibility; Industry 4.0; human factors

I. 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 Kinhi lake is freshwater body situated in Kinhi village of Chandrapur district and the area of this lake is spread over near about 83.64 acre. It is situated at about 246 m. above mean sea level and is at 20.2634° N Latitude and 79.6529° E Longitude.

During the last few decades considerable studies on avifauna diversity from different water bodies of India have been carried out by many researchers, like Singh, T.C.N. (1929), Ali, S. (1932), Ghazi, H.K. (1962), Kannon, P. (1980), Davidar, P. (1985), Jhingran, V.G. (1988) and Ghoshal, D. N. (1995). However very little information is available about avifauna of India. This work has therefore undertaken of document the avifauna of Kinhi lake in Chandrapur district.

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 Kinhi lake in the form of aquatic crustaceans, insects, molluscs etc. the lake always attracts a large number of birds throughout year.



II. MATERIAL AND METHODS

Avian fauna including resident as well as resident migratory and winter visitors birds were recorded during the period of present study. The observation were usually undertaken early in the morning between 6 a.m. to 8 a.m. and in the evening between 5 p.m. to 7 p.m. Birds were observed with the help of a Binocular (10×15 magnification) and photographed using Nikon Camera (model no. D-60). Identification of avian fauna was done according to the keys given by Woodcock, M. (1980), Ali, S. and Ripley, S.D. (1995).

III. RESULT AND DISCUSSION:

Kinhi is a village situated in the Sindewahi tehsil of Chandrapur district, Maharashtra. It is located approximately 2 km from the tehsil headquarters in Sindewahi and around 68 km from the district headquarters in Chandrapur. Kinhi village is a designated Village Panchayat.

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 92 birds species belonging to 16 different orders and 48 families were recorded from this lake. Among the recorded families the species of birds, 28 species belongs to Passeriformes, 12 species belongs to Charadriiformes, 11 species belongs to species belongs to Ciconiiformes, 7 species belongs to Coraciiformes, 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 and 1 each species belongs to Podicipediformes, Pelecaniformes, Galconiformes, Apodiformes, Caprimulgiformes, Pelecaniformes, Passerinae, Ploceinae, Gruiformes and Rhipiduridae.

Among the order recorded species of birds 6 species belongs to Scolopacidae families, 6 species belongs to Anatidae, 5 species belongs to Columbidae and Ardeidae, 4 species belongs to Muscicapidae, 3 species belongs to Sturnidae, Gruidae 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, Dicrodidae, Pycnonotidae, Nectarinidae, Hirudinidae, Sylviidae, 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, B.B. (1922) studied 135 species of birds from Pachmari (M.P.), Ali, S. (1939, 1940) published a list of 278 species of birds from central India, Mujumdar, N. (1984) studied the collection from Baster district (M.P.), Newton, P.N. *et al.*, (1986) have listed the birds of Kanha Tiger Reserve (M.P.), Ghosal, D.N. (1995) have listed the birds of Kanha Tiger Reserve (M.P.), Wadkar, J.S. and Kasambe, R. (2002) reported 171 species of birds at Pohara-Malkhed forest reservoir of Amravati district(M.S.), Yardi, D. *et al.*, (2004) reported 64 species of birds in Salim Ali lake, Aurangabad(M.S.), Kedar, G.T. and Patil, G.P. (2005) recorded 60 birds species from Rishi lake Karanja (Lad) of Washim district(M.S.), Pawar, R.H. *et al.*, (2005) reported 74 species of birds in and around Yedshi lake, Mangrulpir, Washim district(M.S.), Kulkarni, A.N. *et al.*, (2005) reported 151 species of birds in and around Nanded city(M.S.), Kulkarni, A.N. and Kanwate, V.S. (2006) reported 18 species of birds in Dongarkhed irrigation of Hingoli district. (M.S.), Kulkarni, A.N. *et al.*, (2006) reported 93 species of birds from Shikhachwadi reservoir of Nanded district(M.S.), Kedar, G.T. *et al.*, (2008) recorded 74 species of birds in Rishi and Zedshi lake of Washim district(M.S.), Kanwate, V.S. and Jadhao, V.S. (2010) recorded 10 species of birds in Bhokar tahsil of Nanded district(M.S.), Kulkarni, A.N. and Kanwate, V.S. (2010) reported 62 species of birds of Jaldhara forest of Kinwat of Nanded district(M.S.), Thakor, F.J. *et al.*, (2010) reported 104 species of birds from two reservoirs of



Khed district, Gujrat, India. Kurhade, Sudhakar (2010) reported 208 species of birds in Jaikwadi reservoirs near Ahmadnagar(M.S.), Narwade, Sujit and Fartade, M.M. (2011) recorded 165 species of birds of Osmanabad district(M.S.), Rasal, G.B. and Chavan, B.L. (2011) reported 61 species of birds in local ecosystem of Aurangabad(M.S.), Kukade, R.J. *et al.*, (2011) recorded 68 birds species of Chhatri lake of Amravati district(M.S.), Harney, N.V. *et al.*, (2012) recorded 37 species of birds from Kanhala pond of Bhadrawati, District Chandrapur (M.S.), Joshi, Pragati and K. Shrivastava (2012) reported 64 species of birds in Tawa reservoir of Hoshangabad district(M.P.), Hippargi, R.V. *et al.*, (2012) recorded 65 species of birds in a highly fragmented grassland patch near Solapur, Maharashtra and Patel, K.B. *et al.*, (2012) recorded 70 species of birds of Mahi canal site of Nadiad(Gujrat state), Harney, N.V. *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.), 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. (2015) Avifaunal diversity of Junona lake near Chandrapur (M.S.), India, 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 Nagra lake of Bhadrawati tehsil in Chandrapur District, Maharashtra State, India, Shelekar, A. and Harney, N.V. (2020) Avifaunal diversity of Jutpani lake of Dharni (Melghat), District- Amravati (M.S.), India, Bansod, M.A. and Harney, N.V. (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 Kinhi 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 Kinhi 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	Rhipiduridae Rhipiduridae	Rhipidura aureola	White Browed Fantail	R
2	Anseriformes Anatidae	Anser indicus	Bar Headed Goose	M
3	Anseriformes Anatidae	Tadorna ferruginea	Brahminy shelduck	M
4	Gruiformes Rallidae	Amauornis phoenicurus	White-breasted Waterhen	R
5	Podicipediformes Podicipedidae	Tachybaptus ruficollis	Little Grebe	RM
6	Ciconiformes Ardeidae	Ardea cinerea	Grey Heron	RM
7	Ciconiformes Ardeidae	Ardeola grayii	Indian Pond Heron	R
8	Ciconiformes Ardeidae	Bubulcus ibis	Cattle Egret	R
9	Ciconiformes Ardeidae	Casmerodius albus	Large Egret	RM
10	Ciconiformes Ciconidae	Anastomus osciatus	Asian Open Bill Stork	R
11	Ciconiformes Ciconidae	Ephippiorhynchus asiaticus	Black Necked Stork	M
12	Ciconiformes Threskiornithidae	Pseudibis papillosa	Black Ibis	RM



13	Ciconiformes Scolopacidae	Gallinago gallinago	Common Snipe	R
14	Pelecaniformes Phalacrocoracidae	Phalacrocorax niger	Little Cormorant	RM
15	Charadriiformes Recurvirostridae	Himantopus himantopus	Black Winged Stilt	R
16	Charadriiformes Charadriidae	Vanellus indicus	Red wattle Lapwing	R
17	Charadriiformes Scolopacidae	Actitis hypoleucos	Common Sandpiper	RM
18	Ciconiformes Ardeidae	Mesophoyx intermedia	Intermediate Egret	R
19	Ciconiformes Ciconiidae	Mycteria leucocephala	Painted Stork	M
20	Ciconiformes Ardeidae	Egretta garzetta	Little Egret	R
21	Anciriformes Anatidae	Anas poecilorhyncha	Spot Bill Duck	RM
22	Anciriformes Anatidae	Nettapus coromandelianus	Cotton Teal	M
23	Falconiformes Anatidae	Elanus caeruleus	Black Winged Kite	R
24	Falconiformes Anatidae	Milvus migrans	Black Kite	R
25	Galliformes Phasianidae	Fracolinus pondicerianus	Grey Francolin	R
26	Galliformes Gruidae	Amauromis phoenicurus	White-Breasted Water Hen	R
27	Galliformes Gruidae	Porphyrio porphyrio	Purple Moorhen	R
28	Galliformes Gruidae	Fulica atra	Common Coot	M
29	Charadriiformes Glareolidae	Cursorius coromandelicus	Indian Courser	R
30	Charadriiformes Scolopacidae	Tringa nebularia	Common Greenshank	RM
31	Charadriiformes Scolopacidae	Tringa ochropus	Green Sandpiper	M
32	Charadriiformes Scolopacidae	Tringa glareola	Wood Sandpiper	R
33	Charadriiformes Scolopacidae	Tringa totanus	Common Redshank	RM
34	Charadriiformes Scolopacidae	Limosa limosa	Black Tailed Godwit	RM
35	Charadriiformes Charadriidae	Charadrius dubius	Little Ringe Plover	R



36	Charadriiformes Scolopacidae	Gallinago stenura	Pintail Snipe	R
37	Columbiformes Columbidae	Streptopelia senegalensis	Little Brown Dove	R
38	Columbiformes Columbidae	Treron phoenicopterus	Yellow Footed Green Pigeon	R
39	Columbiformes Columbidae	Columba livia	Rock (Blue) Pigeon	R
40	Columbiformes Columbidae	Streptopelia decaocto	Eurasian Collared (Indian Ring) Dove	R
41	Columbiformes Columbidae	Streptopelia chinensis	Spotted Dove	R
42	Psittaciformes Psittacidae	Psittacula krameri	Rose Ringed Parakeet	R
43	Psittaciformes Cuculidae	Eudynamis scolopacea	Asian Koel	R
44	Psittaciformes Cuculidae	Centropus sinensis	Greater Coucal	R
45	Psittaciformes Psittacidae	Psittacula cyanocephala	Plum Headed Parakeet	R
46	Coraciiformes Alcedinidae	Alcedo atthis	Small Blue Kingfisher	RM
47	Coraciiformes Alcedinidae	Halycon smyrnensis	White Breasted Kingfisher	R
48	Coraciiformes Meropidae	Merops orientalis	Small Green Bee Eater	R
49	Coraciiformes Coraciidae	Coracias benghalensis	Indian Roller	RM
50	Coraciiformes Upupidae	Upupa epops	Common Hoopoe	RM
51	Coraciiformes Bucerotidae	Ocyrceros birostris	Indian Grey Hornbill	R
52	Coraciiformes Alcedinidae	Ceryle rudis	Pied Kingfisher	R
53	Passeriformes Lanidae	Lanius schach	Rufousbacked Shrike	R
54	Passeriformes Dicruridae	Dicrurus macrocercus	Black Drongo	R
55	Passeriformes Sturnidae	Acridotheres tristis	Common Myna	R
56	Passeriformes Pycnonotidae	Pycnonotus cafer	Red Vented Bulbul	R
57	Passeriformes Muscicapidae	Turdoides striat	Jungal Babbler	R
58	Passeriformes	Saxicoloides fulicatus	Indian Robin	R



	Muscicapidae			
59	Passeriformes Nectarinidae	Cinnyris asiaticus	Purple Sunbird	R
60	Passeriformes Passeridae	Hydrophasianus chirurgus	Pheasant Tailed Jacana	R
61	Passeriformes Hirudinidae	Hirundo rustica	Common Swallow	RM
62	Passeriformes Laniidae	Lanius vittatus	Bay Backed Shrike	R
63	Passeriformes Sturnidae	Sturnus contra	Pied Myna	R
64	Passeriformes Corvidae	Corvus splendens	House Crow	R
65	Passeriformes Corvidae	Corvus macrorhynchos	Jungal Crow	R
66	Passeriformes Sylviidae	Chrysomma sinense	Yellow Eyed Babbler	R
67	Passeriformes Muscicapidae	Culicicapa ceylonensis	Grey Headed Canary Flycatcher	RM
68	Passeriformes Muscicapidae	Terpsiphone paradisi	Asian Paradise Flycatcher	RM
69	Passeriformes Muscicapidae	Copsychus saularis	Oriental Magpie Robin	R
70	Passeriformes Campephagidae	Tephrodornis pondicerianus	Common Woodshrike	R
71	Passeriformes Muscicapidae	Saxicola caprata	Pied Bushchat	R
72	Passeriformes Campephagidae	Pericrocotus cinnaceous	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	Galconiformes Phasianidae	Pavo cristatus	Indian Peafowl	R
77	Piciformes Picidae	Dendrocopus mahrattensis	Yellow-Crowned Woodpecker	R
78	Piciformes Picidae	Dinopium benghalense	Black Rumped Flameback	R
79	Cuculiformes Cuculidae	Clamator jacobinus	Pied Cuckoo	R
80	Cuculiformes Cuculidae	Cuculus canorus	Common Cuckoo	R



81	Cuculiformes Cuculidae	Centropus parroti	Southern Coucal	RM
82	Strigiformes Strigidae	Athene brama	Spotted Owlet	R
83	Apodiformes Apodidae	Apus affinis	House swift	R
84	Pelecaniformes Phalacrocoracidae	Phalacrocorax fuscicollis	Indian Cormorant	R
85	Motacillidae Oriolidae	Oriolus oriolus	Eurasian Golden Oriole	R
86	Passeridae Corvidae	Dendrocitta vagabunda	Rufous (Indian) Treepie	R
87	Passeridae Passerinae	Passer domesticus	House Sparrow	R
88	Passeridae Ploceinae	Ploceus philippinus	Baya Weaver	R
89	Passeriformes Alaudidae	Ereopterix grisea	Ashy Crowned Sparrow Lark	R
90	Passeriformes Motacillidae	Motacill maderaspatensis	White Browed Wagtail	R
91	Passeriformes Estrildidae	Amandava amandava	Red Aavadavat	R
92	Passeriformes Estrildidae	Lonchura malabarica	Indian Silverbill	R

R = Residential

M = Migratory

RM = Residential Migratory



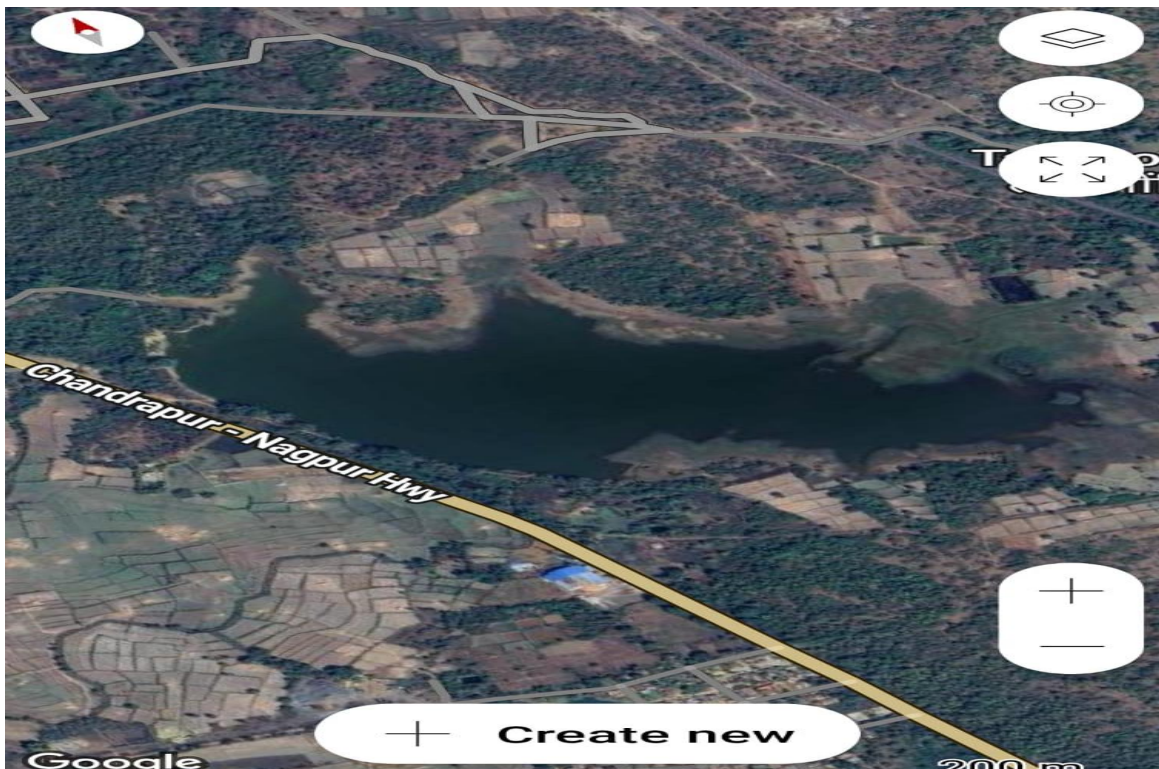


Fig. Satellite image of Kinhi lake

