

## Diversity of Wet Land Birds check list of Tarangwadi and Bijwadi lake of Indapur taluka

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### Abstract

Wet lands Directly and indirectly support millions of people residing in the areas or near by it .They play important role in storm and flood control in supply of clean water along with other educational and recreational benefits,Despite these benefits wet land are the first target of human interference and are among the most threatened of natural resource.(Govt of India Enviorment and forest 2010)

The present survey was carried on the wet land birds of Tarangwadi and Bijwadi lake of indapur taluka as they are the tertiary consumers of the ecosystem and form an important link in the food web .They migrate to distant areas in search of suitable food breeding grounds for survival .The present study was carried out of wet land birds during the year 2008-2010 field observation was done in the day time with the help of binocular camera and photograph information regarding the birds was taken and collected from bird watcher. Identification of birds is made according to Ali (1997). The avian fauna species recorded were placed in the table with their scientific name family common name local migratory, residential with their feeding habits.

**Key words:** Scientific name, family, common name local migratory, residential with their feeding habits.

### Introduction

Wet lands natural and manmade fresh water provide numerous ecological service. They provide habitat to aquatic flora and fauna as well as numerous species of Birds including Migratory species (Natural Enviorment policy 2006). On the eve of wet land ecosystem day on 2 February. This paper focuses on Water birds and important component of wet land ecosystem as they form vital links on the food web. Many water birds are migratory undertaking annual movements between their breeding and non breeding grounds .In this process they regularly cross national boundaries therefore it is the communal duty of our nation to make efforts for their protection and conservation .Baseline information is a condition for planning and monitoring management action of wet land birds and their habitats wetland in (2002 Arun Kumar et al 2003).

### TOPOGRAPHY OF AREA

Tarangawadi lake and Bijwadi lake are shallow manmade lake and the ecological situation of the lake is so favourable that helps to attract good number and variety of residential and migratory birds. The adjoining area of Tarangwadi &Bijwadi lake covered with agricultural fields as well as water logged soil with marshy habitat . Due to presence of marshy land and plants the Birds get natural environment for settlement .Bijwadi lake is place for residential bird many birds build their nest in aquatic weeds Indapur region it is 50 km away from Baramati region water from Khadakwasala dam water is stored in the lake it lies at latitude about 18N and 19N Latitude and 75 east longitude east.

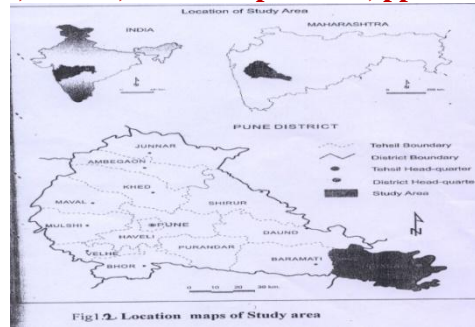


Fig 1.2. Location maps of Study area

### Material memous

Field study and observation was carried out of Tarangwadi and Bijwadi lake the two sites were selected minimum human interference was done during the year 2008-2010 the study was carried out by taking photographs identification as migratory , residential or local .The feeding habits was collected from standard literature .

**Table no1 Check list of of wet land Bird recorded from Tarangwadi & Bijwadi lake of Indapur taluka**

Sr no	Name	Common name	Scientific name	Family						Feeding habits
					T	B	L	M	R	
1	Pond heron	Andha bagla	<i>Ardea grayii</i>	Ardeidae	+	+				Insects crabs frog and fishes
2	Grey heron	Nari anjal	<i>Ardea Anerea</i>	Ardeidae	+	+	L			frog and fishes
3	Large egret	Bagla	<i>Casmerodius albis</i>		+	+	L			fishes
4	Black winged stilt	Shektya	<i>Himantopus Himantopus</i>	Charadriidae	+	+		M		Bottom mud worm ,Mollusc and aquatic insect
5	Black Drango		<i>Dicrurus Macrocerus</i>	Corvidae	+	+	L		R	Fishes mollusc etc
6	Purple moorhen	Jambali Pankombdi	<i>Gallinula Chloropae</i>	Rallidae	+		L		R	Phytoplankton aquatic weeds insects and mollusc vegetable matter
7	Eurasian Common coot	Chandwa	<i>Fulica atria</i>	Rallidae		+		M		Vegetarian aquatic weeds paddy shoots
8	Spot bulled duck	Haldi kuku	<i>Anas poecilorhyncha</i>	Corvidae		+		M	R	Vegetarian aquatic weeds paddy shoots
9	Rudy shield duck	Chakrawak	<i>Tadorna ferruginia</i>	Corvidae		+		M	R	Vegetarian aquatic weeds paddy shoots
10	Yellow wattled lapwing	Titwi	<i>Vanellis Malabaricus</i>	Corvidae	+	+	L			Bottom mudworm,molluscand Aquatic insects
11	Brahminy duck	Chakrawak	<i>Tadorna ferruginia</i>	Corvidae				M	R	Aquatic weeds insects mollusks snails
12	Red napped ibis	Temminck baza	<i>Pseudibis papilbosa</i>	Threskiomithidae		+			R	Near bank upon insect & grain
13	White ibis	Safed baza	<i>Threskiornis Melanocephalus</i>	Threskiomithidae	+	+		M		Insects,crabs,aquatic weeds fishes
14	Glossy ibis	Chhota baza	<i>Plegadis Falcinellus</i>	Threskiomithidae	+	+		M		Crabs and molluscs
15	Spoon bill	Chamacha	<i>Platalea Leuorodia</i>	Threskiomithidae	+			M		Mollusc, frog and insect
16	Painted strok	Rangeet karkoch	<i>Mycteria Leucocephala</i>	Ciconidae	+			M		Feeds on fishes and mollusc

17	Little Cormorant	Pankavala	<i>Phalacrocorax Niger</i>	Phalacrocoracidae	+	+	L		Fishes and mollusc
18	Indian tern		<i>Sterna Aurantia</i>	Laridae		+	L		Feeds on fishes
19	Wooly Necked strok	Karkucha	<i>Ciconia Episcopsis</i>	Ciconidae	+	+		R	Feeds on insects small reptiles
20	Blue king fisher	Khandya	<i>Alcedoathis</i>	Alcedinidae	+	+	L		Fish ,Tadpole and insect



1Spot billed duck *Anas poecilorhyncha* 2 Spoon Bill (*platalea leucorodia*) 3 common coot (*Fulica Atia*) 4 Black winged stilt (*Himantopus Himantopus*) 5Painted strok (*Mycteria Leucocephala*) 6White Ibis (*Threskiornis Melanocephalus*) 7 Jambali Pankombdi (purple moorhen) 8 Rudy shield duck (*Tadorna Ferruginea*)

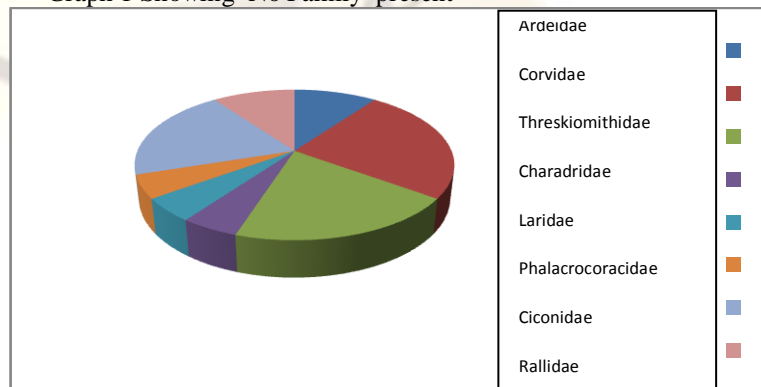
**Result**

A total 20 Species of Birds were recorded from both Tarangwadi and Bijwadi lake of Indapur taluka. Among them 3 species were herbivours feeders on phytoplankton 17 species were feeding on Macro invertebrates animals . 9 Families were recorded in both the lakes .Due to aquatic

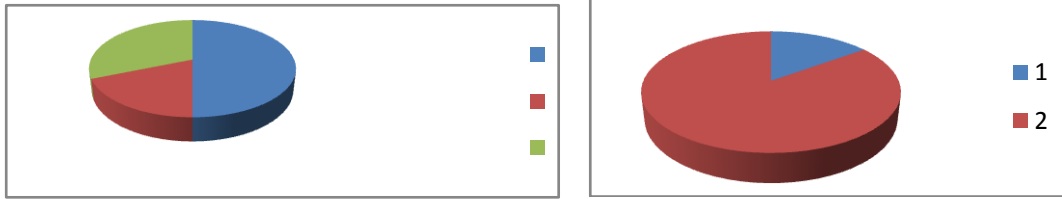
vegetation Large no of residential birds were recorded from Bijwadi lake due to marshy aquatic weeds like ipomoea Beshram which is hiding place to build nest mostly species like 1Spot billed duck *Anas poecilorhyncha*, common coot (*Fulica Atia*) Rudy shield duck(*Tadorna Ferruginea*) were recorded from Bijwadi lake .

Graph 1 Showing No Family present

Sr	Families	sp
1	Alcedinidae	1
2	Ardeidae	2
3	Corvidae	5
4	Ciconidae	4
5	Charadriidae	1
6	Laridae	1
7	Phalacrocoracidae	1
8	Threskiomithidae	4
9	Rallidae	2



Graph 2 Showing population of migrants/residential/local vegetarian /aquatic animals      Graph 3 Showing feeding habits



#### Discussion

The migratory species were winter visitors Pandey (1993) Malhotra et al (2005) Manmohan and saxena (2005) ,Kulkarni et al (2006 )While species like 2 Spoon Bill 2(platalea leucorodia) 5 Painted strok (Mycteria Leucocephala etc were recorded which is good survival of ecosystem and can also attract the attention of bird watcher and ornithologist . But the only species Flamingo were never seen in these lakes ?they are seen in the nearby areas like Bhigwan Bhadalwadi This might be due to lack of algae which they feed ?

#### Reference

- [1]. Ali Ripley &S.D Ripley (1983) compact edition of handbook of birds of India &Pakistan Bombay Natural history society and oxford university press Bombay.
- [2]. Pandey s (1993) Changes in water birds diversity due to construction of prong dam reservoir H.P India Biol conservation 125-136
- [3]. Gramett R C Inskipp& (2000) Birds of the Indian sub continent oxford university press New Delhi 384pp.
- [4]. Ali Ripley & S.D Ripley(2002)The book of Indian Bird 13<sup>th</sup> edition Bombay Natural History society oxford university press new Delhi vii 326pp.
- [5]. Arun kumar J.P Sati p.c tak( 2003) Check list of India wet land in Evis New letter Avian Ecology &Inland wetland Buceros 8(1)1-29.
- [6]. Kedar G.T and Patil G.P 2005) Avianfaunal diversity of rishi lake karanja (lad) M.S with reference to food preference and feeding habits Aqua Bio 20(1) 35-38.
- [7]. Manmohan p and Saxena 2005) Population dynamic of water fowl at Kishnapura Talav Indore India J . Life sci 2(122) 45-48.
- [8]. Sanjay Kurabhai Sharad D Apte and Sanjay s sathe (2007)Preliminary survey of Avifauna along Krishna river basin near sangali city (M.S) .
- [9]. A.C Kumbher, B.N Ghorpade, S.Y.Shaikh (2009) Che ck list of avian fauna of nimagaon water reservoir in Malshiras tahasil of Sholapur district (M.S).