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# PISCIVOROUS BIRDS AROUND EKRUKH WATER RESERVOIR OF NORTH SOLAPUR TAHSIL DIST. SOLAPUR (M.S.)

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#### Abstract:

Ekrukh water reservoir is one of the largest man made water reservoir. It provides the nutrient rich flora and fauna which attracts the birds. It contains the diverse assemblage of algae, aquatic weeds, phytoplankton, zooplankton which facilitate the growth of fishes like *Labeo rohita, Catla catla* and other aquatic animals. Ekrukh water reservoir closely located to Solapur city in North Solapur Tahsil. Its total storage capacity is 3330 M. Cu. Ft. The water from Ekrukh water tank is currently used for irrigation and drinking. Because of less human disturbance, least pollution and abundant food many birds are attracted towards this reservoir. The lake and its surrounding area acts as the best winter house for many local and migratory birds.

The current study was conducted from March 2014 to February 2015. Total 18 piscivorous birds were observed in the study period. Total 18 piscivorous birds were observed in the study period. Out of 18 species 10 birds were resident, 4 were local migrants, 2 were migrants and 2 was winter migrant.

Keywords: Ekrukh water reservoir, fishes, piscivorous birds, winter house

### Introduction:

Water bodies and wetlands help mankind in many ways, such as agriculture, fishing, sewage disposal, grazing, storage of ground water, tourism, birding, *etc.* Besides above said facts, they act as the best platform for local and migratory birds for different purposes like breeding, feeding and stopover site. Large number of migratory and resident birds depends on such water bodies and wetlands for their survival. The current study aims to make a checklist of piscivorous birds.

Piscivorous birds feed on fish fauna. They can cause damage to the fish culture by decreasing the yield. Piscivorous birds have been earlier studied by piscivorous birds of Madras were studied by Ghazi (1962), Kulkarni, *et.al.* (2006), piscivorous birds of minor irrigation dam, Kalamanuri were studied by Waghmare, *et.al.*, Piscivorous birds of Hingani-Pangaon reservoir, Barshi (M.S.) was studied by Gavhane and Babare (2013). The present research paper reports the check list of piscivorous birds of Ekrukh water reservoir (Hipparaga Lake) of North Solapur Tahsil of Solapur District. (M.S.).

### Materials and Methods:

The Ekrukh water reservoir is located at Tale Hipparaga village close to Solapur city. Ekrukh water reservoir is one of the man made water reservoirs constructed very close to Solapur city in Maharashtra and it has a total capacity of 3,330 M. Cu. Ft. This reservoir commands a gross area of 17,152 acres. Ekrukh water reservoir is a historical man made water body. The water from Ekrukh water reservoir is utilized for the purpose of irrigation, drinking and farming. The lake and its surrounding area acts as the best winter house for many local and migratory birds. The water body contains a diverse assemblage of resident and migratory birds. Till now, different researchers have studied fauna of piscivorous birds.

The regular survey camps were arranged at morning and evening time of every month, scheduled from March 2014 to February 2015 to find out relative abundance of the birds at study site. For this survey, Olympus binocular was used for bird watching. Photography was done with the help of SLR camera (Canon 1100D) and zoom lenses (55-210mm and 70-300). The observed birds were identified with the help of field guides, local bird watchers and pictorial literature. The record of observed birds is maintained by basic bird count and point count method.

### **Result and Discussion:**

Total 18 piscivorous birds were observed in the study period. Out of 18 species 10 birds were resident, 4 were local migrants, 2 were migrants and 2 was winter migrant. As the study period includes monsoon, winter and summer season, the variability in the climate is observed which resulted in the different bird count at the study site. The recorded birds are categorized into resident, local and migratory birds. The availability of variety of food and the nesting behavior of many birds was also studied.

### Key to abbreviations:

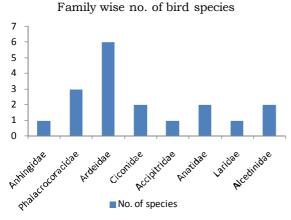
First suffix: (Status) R: Resident M: Migrant

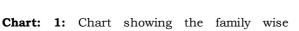
### LM: Local Migrant

### WM: Winter Migrant

Family	Common Name	Scientific Name	Status
Anhingidae	Oriental darter	Anhinga Melamogaster	LM
Phalacrocoracidae	Great cormorant	Phalacrocorax carbo	R
	Little cormorant	Phalacrocorax niger	R
Ardeidae	Indian pond heron	Ardeola grayii	R
	Grey heron	Ardea cinerea	LM
	Little egret	Egretta garzetta	LM
	Large egret	Egretta alba	LM
	Medium egret	Egretta intermedia	М
	Purple heron	Ardea purpurea	М
Ciconidae	Open bill stork	Anastomus oscitans	R
	Painted stork	Mycteria leucocephala	R
Anatidae	Ruddy shell duck	Tadorna ferruginea	WM
	Bar headed goose	Anser indicus	WM
Accipitridae	Brahminy kite	Haliastur indis	R
Laridae	River tern	Sterna aurantia	R
Alcedinidae	Small kingfisher	Alcedo atthis	R
	Pied kingfisher	Ceryl erudis	R
	White breasted kingfisher	Halcyon smyrnensis	R

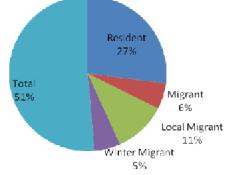
### **Table 1:** Checklist of piscivorous fauna of Ekrukh water reservoir







Residential status of birds



nily wise piscivorous birds

### **Conclusion:**

number of piscivorous birds

Total 18 piscivorous birds were observed in the study period. Out of 18 species 10 birds were resident, 4 were local migrants, 2 were migrants and 2 was winter migrant. During the study period, water level on the reservoir was varied seasonally. No poaching of

**Chart: 2:** Chart showing the status of observed

the bird was observed during the study period. The reservoir was with less human interference and least pollution was observed at the study site. All these parameters make the reservoir the excellent place for many species of birds. This natural beauty of the reservoir must be preserved and the area should be kept free from pollution and human disturbances.



Fig. 1.1 Grey heron



Fig. 1.4 River tern



Fig. 1.7 Spoon bills



Fig. 1.2 Large egret



Fig. 1.5 Open bill stork



Fig. 1.8 Great cormorants



Fig. 1.3 White breasted kingfisher



Fig. 1.6 Painted stork



Fig. 1.9 Bar headed goose

Fig: Photographs of the piscivorous birds found at Ekrukh Lake

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