RESEARCH ARTICLE

Avifaunal diversity in and around Chargaon Dam (Warora) District Chandrapur (M.S.) India.

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ABSTRACT

This paper deals with the community of birds in and around Chargaon dam Warora district Chandrapur Maharashtra state India. It is situated at coordinate 20.3944526°N 79.1757202°E district of Maharashtra India. In present no data pertaining to avifaunal diversity of this region is available, so that we were decided to prepare a checklist of birds. The observation was carried out throughout year from April 2012- April 2016 in and around Chargaon dam. The study revealed a total 196 species of birds belonging to the 64 families and 19 orders of which 139 Species were resident 17 Migratory residents 38 winter migratory 1 breeding migratory and 1 species were passage migrant.

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Key Words: Avifauna, Chargaondam, Checklist, diversity, Migrant, Resident.

INTRODUCTION

India is mega-diversity centre harbor about 1301 species of birds that amount to 13% of the total birds of the world (Ali, 2012). Birds are an important in ecosystem as potential pollinators, scavengers and biomonitors in controlling insect pest and also as excellent ecological indicators. Maharashtra is the second most populous and third largest state by area in India. Avifaunal diversity has been studied by number of workers and coworkers in Maharashtra state. 171 species of birds studied at Pohara Malkhed forest reserve and Amravati university campus (Kasambe and Wadatkar 2002), the annotated checklist of Nagpur area represented 284 species (Kasambe 2009) 165 species of birds in Osmanabad (Narwade and Fartade), 151 species at Nanded city south east of Maharashtra (Kulkarni et al; 2005), 94 species of birds from Buldhana (Kakde 2012), Chaprala wildlife sancury Gadchiroli M.S. India reported 76 species (Chawhan and Dhamani 2014), 34 species of birds documented from Muchi lake Pandharkawada district Yavatmal

M.S. India (Pawar and Wanjari, 2013), wetland are major habitat for resident and migratory birds, which provides water, food, shelter and sites for nesting and nurturing of young ones (Mitsch and Gosselink, 2000; Stewart 2001), a few notable field survey on avian diversity has been conducted in major wetlands of India (Awan et al; 2004, Bhat et al; 2009, Narayanan et al; 2011,Balkhande et al; 2012),. Still information on wetland avian fauna at Maharashtra is much limited.

(Harney 2015) reported 99 species of birds Junona lake Chandrapur. Although (Harney 2011), previously reported 38 species of birds from three lakes at Bhadrawati Chandrapur. 2014 Harney also documented 49 species from Dudhala Lake, 55 species from Ghotnimbala Lake and 65 species of birds from Chalbardi (Rai) lake Bhadrawati district Chandrapur. While (Arun Chilke 2012) sighted 58 species of birds at Bamanwada lake Rajura district Chandrapur. There is a lack of information as most of the birds in many water bodies around Chandrapur district, so that the present investigation was on attempt to make comprehensive checklist, seasonal variation in the species, migratory status and threats of avifauna of the Chargaon dam Warora district Chandrapur Maharashtra India.

MATERIAL AND METHODS

STUDY AREA

The Chargaon dam is an irrigation project by Government of Maharashtra in year 1983. It is situated on Chargaon River at Chargaon Bk taluk Warora district Chandrapur coordinate 20.3944526°N

79.1757202°E It is an earth fill dam having 3065 m (10055.77 feet) length, this length divided into two sections by spillway. The height of dam above lowest foundation is 14.4 m (47.224 feet). The catchment area of dam is 14.83 thousand hector and maximum gross storage capacity is 21.7 MCM and live storage capacity is 19.866 MCM. All water bodies make a good wetland which attracts a number of birds, due to their high productivity. Dam provides number of aquatic weeds in floating, submergible and emerge state which thrive a large number of organisms. An Avaibility of food throughout year in the form of insect, crustaceans and mollusks etc.

METHODOLOGY

The present report based on an observation made from April 2012- April 2016. Randomly visits were made weekly to these area throughout year. An observation were carried out in and around dam on random pathway for which nearly full day were spend. The birds were sighted by using binocular of Olympus 12 X - 50 X magnification and spot identification were done by using field guide (Carol Inskipp, Richard Grimmett, and Tim Inskipp 1999, Krys Kazmierczak 2000) and photographic documentation were done by using camera (Nikon D90 with 70-300 mm VR lens and Canon 600D with 55-250mm lens). Only those species with confirmed identity are reported in this paper. The status of each species is categorized as Residential (R), Residential Migrant (RM), Winter Migrant (WM), Breeding Migrant (BM) and Passage Migrant (PM). While abundance of birds was categorized as Common (C), Uncommon (U), Occasional (O), Rare (Rr).







Fig. 1 Map of Study site Chargaon dam

RESULT AND DISCUSSION

During study investigation 196 Species of birds were documented belonging to 64 Different Families and 19 Different Orders of class Aves. Out of these 139 species were resident, 17 species were Residential Migratory, 38 species were Winter Migratory,1 species were breeding migrant and 1 species were found to be Passage Migrant. It was observed that the maximum

bird species were recorded during early monsoon and late winter, while comparatively less number of birds was recorded during late summer, late rainy season and early winter. A total of 121 birds' species were found to be common, 51 species of birds found to be uncommon, 15 birds' species found to be occasional and 9 bird's species were found to be a rare. These are illustrated as in table.

Table 1: Checklist of Birds

Podicipedidae Little grebe Tachybaptus ruficollis R C	Common name	Scientific Name	Status	Abundance
Little grebe Tachybaptus ruficollis R C Suliformes Anhingidae Oriental darter Anhinga melanogaster RM U Phalacrocoracidae Little cormorant Indian cormorant Phalacrocorax fuser RM C Great cormorant Phalacrocorax fuscicollis RM C Great cormorant Phalacrocorax fuscicollis RM C Great cormorant Phalacrocorax carbo RM U Pelecaniformes Ardeidae Little egret Egretta garzetta R C C Cattle egret Bubulcus ibis R C Great egret Casmerodius albus R C Great egret Mesophoyx intermedia R U Striated heron Butorides striatus R U Pond heron Ardeola grayii R C Grey heron Ardeola grayii R C Grey heron Ardea cinerea RM U Threskiornithidae Black headed ibis Pseudibis papillosa R Black headed ibis Pseudibis papillosa R C G Grey heron Ardeola grayii R C C C C C C C C C C C C	<u>Podicipediformes</u>			
Suliformes Anhingidae Oriental darter Phalacrocoracidae Little cormorant Indian cormorant Indian cormorant Phalacrocorax fuscicollis RM C Great cormorant Phalacrocorax carbo RM U Pelecaniformes Ardeidae Little egret Egretta garzetta R C Cattle egret Bubulcus ibis R C Great egret Intermediate egret Mesophoyx intermedia R U Striated heron Pond heron Ardeola grayii R C Grey heron Ardeo arienera RM U Purple heron Ardea purpurae RM U Threskiornithidae Black headed ibis Pseudibis papillosa R C G Glossy ibis Plegadis falcinellus R U Ciconiiformes Ciconiidae Asian open bill Anastomus oscitans Anatidae Anatidae Anatidae	Podicipedidae			
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Anhingidae Oriental darter Anhinga melanogaster RM U Phalacrocoracidae Little cormorant Phalacrocorax niger RM C Indian cormorant Phalacrocorax fuscicollis RM C Great cormorant Phalacrocorax fuscicollis RM C Great cormorant Phalacrocorax carbo RM U Pelecaniformes Ardeidae Little egret Egretta garzetta R C Cattle egret Bubulcus ibis R C Great egret Mesophoyx intermedia R U Striated heron Butorides striatus R C Grey heron Ardeola grayii R C Grey heron Ardea cinerea RM U Threskiornithidae Black headed ibis Purple heron Ardea purpurae RM U Threskiornithidae Black headed ibis Peseudibis papillosa R R C C C C C C C C C C C C C C C C C	C. l'G.			
Oriental darter Anhinga melanogaster RM U Phalacrocoracidae Little cormorant Phalacrocorax niger RM C Indian cormorant Phalacrocorax fuscicollis RM C Great cormorant Phalacrocorax carbo RM U Pelecaniformes Ardeidae Little egret Egretta garzetta R C Cattle egret Bubulcus ibis R C Great egret Mesophoyx intermedia R U Striated heron Butorides striatus R C Greyheron Ardeola grayii R CC Greyheron Ardea cinerea RM U Purple heron Ardea purpurae RM U Threskiornithidae Black headed ibis Pseudibis papillosa R C GC Glossy ibis Plegadis falcinellus R C C Ciconiiformes Ciconiidae Asian open bill Anastomus oscitans Anatidae Anasteriormes Anatidae				
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Indian cormorant Great cormorant Phalacrocorax fuscicollis Phalacrocorax carbo RM U Pelecaniformes Ardeidae Little egret Bubulcus ibis R C Great egret Casmerodius albus R C Intermediate egret Mesophoyx intermedia R U Striated heron Butorides striatus R C Grey heron Ardea cinerea RM U Purple heron Ardea purpurae Black headed ibis Pseudibis papillosa R C Gred -naped ibis Plegadis falcinellus R U Ciconiiformes Ciconiidae Asian open bill Painted stork Mycteria leucocephala R Anastorus oscitans R U Anseriformes Anatidae RM C C C C C RM C C C C C C C C C C C	Phalacrocoracidae			
Great cormorant Phalacrocorax carbo RM U Pelecaniformes Ardeidae Little egret Little egret Bubulcus ibis R C Great egret Casmerodius albus R C Intermediate egret Mesophoyx intermedia R U Striated heron Butorides striatus R U Pond heron Ardeo la grayii R C Grey heron Ardea cinerea RM U Purple heron Ardea purpurae RM U Threskiornithidae Black headed ibis Pseudibis papillosa R C Glossy ibis Plegadis falcinellus R U Ciconiiformes Ciconiidae Asian open bill Anastomus oscitans R U Anseriformes Anatidae Anastomus escitans R U Anastomus oscitans R U Anseriformes Anatidae	Little cormorant	Phalacrocorax niger	R	С
Pelecaniformes Ardeidae Little egret	Indian cormorant	Phalacrocorax fuscicollis	RM	С
Ardeidae Little egret	Great cormorant	Phalacrocorax carbo	RM	U
Ardeidae Little egret	Pelecaniformes			
Little egret				
Cattle egret Bubulcus ibis R C Great egret Casmerodius albus R Intermediate egret Mesophoyx intermedia R Striated heron Butorides striatus R Pond heron Ardeola grayii R Grey heron Ardea cinerea RM Purple heron Ardea purpurae RM Threskiornithidae Black headed ibis Peseudibis papillosa R R GC Red -naped ibis Plegadis falcinellus R Eurasian spoonbill Platalea leucorodia R Anastomus oscitans R Painted stork Mycteria leucocephala R Wooly necked stork Anseriformes Anatidae		Earetta aarzetta	R	С
Great egret	_	9	R	
Intermediate egret				
Striated heron Butorides striatus R U Pond heron Ardeola grayii R Grey heron Ardea cinerea RM U Purple heron Ardea purpurae RM U Threskiornithidae Black headed ibis Threskiornis melanocephalus R C Red -naped ibis Pseudibis papillosa R C Glossy ibis Plegadis falcinellus R U Eurasian spoonbill Platalea leucorodia R U Ciconiiformes Ciconiidae Asian open bill Anastomus oscitans R U Painted stork Mycteria leucocephala R U Wooly necked stork Ciconia nigra R U Anseriformes Anatidae	_			
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Purple heron Ardea purpurae RM U Threskiornithidae Black headed ibis Red -naped ibis Pseudibis papillosa Rolossy ibis Plegadis falcinellus Eurasian spoonbill Platalea leucorodia Roloscitoniiformes Ciconiiformes Ciconiidae Asian open bill Painted stork Mycteria leucocephala Wooly necked stork Anseriformes Anatidae			RM	
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Glossy ibis Eurasian spoonbill Platalea leucorodia R U Ciconiiformes Ciconiidae Asian open bill Painted stork Wooly necked stork Anseriformes Anatidae Plegadis falcinellus R U U Anastomus oscitans R U R U Anastomus oscitans R U V Anastomus oscitans R V V Anastomus oscitans R V V V Anas		-		
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Ciconiiformes Ciconiidae Asian open bill Painted stork Wooly necked stork Anseriformes Anatidae Ciconia nigra Anatidae Anastomus oscitans R U Ciconia nigra R U U	-			
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Asian open bill Painted stork Wooly necked stork Anseriformes Anatidae Anastomus oscitans R U U R U U Anseriformes	Ciconiiformes			
Painted stork Wooly necked stork Mycteria leucocephala Ciconia nigra R U When the story of	Ciconiidae			
Wooly necked stork Ciconia nigra R U Anseriformes Anatidae	Asian open bill	Anastomus oscitans	R	U
Anseriformes Anatidae	Painted stork	Mycteria leucocephala	R	U
Anatidae	Wooly necked stork	Ciconia nigra	R	U
Anatidae	Anseriformes			
		Dendrocyana jayanica	R	c

Bar headed goose	Anser indicus	WM	Rr
Greylag Goose	Anser mateus Anser anser	WM	Rr
Rudy shelduck	Tadorna ferruginea	WM	C
Knob-billed duck	Sarkidiornis melanotos	R	0
Common teal	Anas crecca	WM	U
			C
Cotton teal	Nettapus coromandelianus	R	
Gadwall	Anas strepera	WM	Rr
Mallard	Anas platyrhynchos	WM	Rr
Spot billed duck	Anas poecilorhyncha	R	С
Northern shoveler	Anas clypeata	WM	C
Northern pintail	Anas acuta	WM	С
Eurasian wigeon	Anas Penelope	WM	0
Garganey	Anas querquedula	WM	0
Red crested pochard	Netta rufina	WM	0
Tufted duck	Aythya ferina	WM	0
<u>Accipitriformes</u>			
Accipitridae			
Black kite	Milvus migrans	R	С
Black shoulder kite	Elanus caeruleus	R	С
Shikra	Accipiter badius	R	С
Oriental honey buzzard	Pernis ptilorhynchus	R	U
Short toed snake eagle	Circaetus gallicus	R	U
Crested serpent eagle	Spilornis cheela	R	0
White eye buzzard	Butastur teesa	R	U
Booted eagle	Hieraaetus pennatus	WM	0
Eurasian marsh harrier	Circus aeruginosus	WM	U
Pallid harrier	Circus macrourus	WM	U
Grey headed Fish Eagle	Ichthyophaga ichthyaetus	RM	Rr
Falconidae			
Common kestrel	Falco tinnunculus	RM	С
Red necked falcon	Falco chicquera	RM	O
Peregrine falcon	Falco peregrines	RM	U
r er egrine iuicon	Takes per egrines		
Pandionidae			
Osprey	Pandion haliaetus	WM	0
<u>Galliformes</u>			
Phasianidae			
Common quail	Coturnix coturnix	R	С
Rain quail	Coturnix coromandelica	R	С
Jungle bush quail	Perdicula asiatica	R	С
Grey francolin	Francolinus pondicerianus	R	С
Painted francolin	Francolinus pintadeanus	R	U
Indian peafowl	Pavo cristatus	R	C
<u>Turniciformes</u>			
Turnicidae			
Yellow leg button quail	Turnix tanki	R	U
remowing button quan	I WITH CHIM		

Gruiformes			
Gruidae		WM	Rr
Common crane	Grus grus	WM	Rr
Demoiselle crane	Grus virgo	VV 1V1	IXI
Demoisene crane	Grus virgo		
Rallidae			
common coot	Fulica atra	R	С
commn moorhen	Gallinula chloropus	R	C
purple swamphen	Porphyrio porphyrio	R	C
white breasted water hen	Amaurornis phoenicurus	R	C
white breasted water hen	Amadrorms phoenicards	T.	C
<u>Charadriiformes</u>			
Burhinidae			
Eurasian thick nee	Burhinus oedicnemus	R	0
Charadriidae			
Red wattled lapwing	Vanellus indicus	R	С
Yellow wattled lapwing	Vanellus malabaricus	R	U
Small pranticol	Glareola lacteal	RM	C
Oriental pranticol	Glareola maldivarum	RM	U
Little ring plover	Charadrius dubius	WM	C
Glareolidae			
Indian courser	Cursorius coromandelius	R	0
11141411 00 41 001			
Rynchopidae			
Indian Skimmer	Rynchops albicollis	WM	Rr
Laridae			
River tern	Sterna aurantia	R	С
Jacanidae			
Pheasant tailed jacana	Hydrophasianus chirurgus	R	С
Bronze wing jacana	Metopidius indicus	R	U
Recurvirostridae			
Black wing stilt	Himantopus himantopus	R	С
Scolopaciidae			
Black tailed godwit	Limosa limosa	WM	Rr
Common snipe	Gallinago gallinago	WM	С
Painted snipe	Rostratula bengalensis	R	С
Wood sand piper	Tringa glareola	WM	С
Common green shank	Tringa nebularia	WM	С
Common red shank	Tringa tetanus	WM	С
Spotted red shank	Tringa erythropus	WM	С
Little stint	Calidris minuta	WM	С
<u>Columbiformes</u>			
Columbidae			
Blue rock pigeon	Columba livia	R	С
Yellow footed green pigeon	Treron phoenicopterus	R	С

Europian collored days	Character alia degge ate	D	C
Eurasian collared dove	Streptopelia decaocto	R	С
Spotted dove	Stigmatopelia chinensis	R	С
Laughing dove	Stigmstopelia senegalensis	R	С
Oriental turtle dove	Streptopelia orientalis	R	U
Red collard dove	Streptopelia tranquebarica	R	U
Pteroclididae			
Chestnut tailed sandgrouse	Pterocles exustus	R	U
painted sandgrouse	Pterocles indicus	R	U
<u>Psittaciformes</u>			
Psittacidae			
Rose ringed parakeet	Psittacula krameri	R	С
Plum headed parakeet	Psittacula pcyanocephala	R	C
Alexandrine parakeet	Psittacula eupatria	R	U
Alexandi ille parakeet	rsittacaia eupatria	K	U
<u>Cuculiformes</u>			
Cuculiormes Cuculidae			
	Cugulus mismo-t	D	0
Indian cuckoo	Cuculus micropterus	R	0
Asian koel	Eudynamys scolopaceus	R	С
Common hawk cuckoo	Hierococcyx varius	R	С
Southern coucal	Centropus sinensis	R	С
Jacobin cuckoo	Clamator jacobinus	BM	U
<u>Caprimulgiformes</u>			
Caprimulgidae			
Indian nightjar	Caprimulgus asiaticus	R	С
Jungle nightjar	Caprimulgus indicus	R	U
Strigidae			
Spotted owlet	Athene brama	R	С
Indian scops owl	Otus bakkamoena	R	U
Eurasian eagle owl	Bubo bubo	R	U
Tytonidae			
Barn owl	Tyto alba	R	С
Apodiformes			
Apodidae			
Little swift	Apus affinis	R	С
Asian palm swift	Cypsiurus balasiensis	R	C
Crested tree swift	Hemiprocne coronate	R	U
Greated free Switt	nemproche coronate		J
Coraciiformes			
Alcedinidae			
Common kingfisher	Alcedo atthis	D	C
		R	C
White throated kingfisher	Halcyon smyrnensis	R	C
Pied kingfisher	Ceryle rudis	R	U
Constitution			
Coraciidae		ъ	0
Indian roller	Coracias benghalensis	R	С

Meropidae			
Green bee eater	Merops orientalis	R	С
dreen bee eater	Merops orientalis	K	
<u>Bucerotiformes</u>			
Bucerotidae			
Indian grey hornbill	Ocyceros birostris	R	С
Upupidae			
Common hoopoe	Upupa epops	R	С
<u>Piciformes</u>			
Megalaimidae			
Copper smith barbet	Megalaima zeylanica	R	С
Picidae			
Black rumped flameback	Dinopium benghalense	R	С
Yellow crowned woodpecker	Dendrocopos mahrattensis	R	U
<u>Passeriformes</u>			
Alaudidae			
Indian bush lark	Mirafra erythroptera	R	С
Ashy crowned sparrow lark	Eremopterix griseus	R	С
Sykes's lark	Galerida deva	R	С
Rufous tailed lark	Ammomanes phoenicura	R	С
Oriental skylark	Alauda gulgula	R	С
Hirundinidae			
Dusky crag martin	Ptyonoprogne concolor	R	С
Barn swallow	Hirundo rustica	WM	U
Red rumped swallow	Cecropis daurica	R	U
Wire tailed swallow	Hirundo smithii	R	U
Streak throated swallow	Petrochelidon fluvicola	R	U
Dicruridae			
Black drongo	Dicrurus macrocercus	R	С
White belied drongo	Dicrurus caerulescens	R	U
Ashy drongo	Dicrurus leucophaeus	RM	U
Greater racket tailed drongo	Dicrurus paradiseus	R	0
Tephrodornithidae			
Common wood shrike	Tephrodornis pondicerianus	R	С
Laniidae			
Long tailed shrike	Lanius schach	R	С
Bay backed shrike	Lanius vittatus	R	С
Southern grey shrike	Lanius meridionalis	R	С
Sturnidae			
Brahminy starling	Sturnia pagodarum	R	С
Asian pied starling	Gracupica contra	RM	С
Rosy starling	Pastor roseus	PM	С

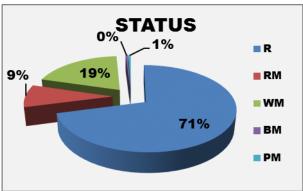
Chestnut tailed starling	Sturnia malabarica	RM	0
Common myna	Acridotheres tristis	R	C
Corvidae			
Rufous treepie	Dendrocitta vagabunda	R	С
House crow	Corvus splendens	R	С
Jungle crow	Corvus macrorhynchos	R	U
Oriolidae			
Indian golden oriole	Oriolus oriolus	R	С
Irenidae			_
Common iora	Aegithina tiphia	R	С
Jerdon's leafbird	Chloropsis jerdoni	R	U
n			
Pycnonotidae	Program at us as far	D D	C
Red vented bulbul	Pycnonotus cafer	R	С
Timaliidae			
Common babler	Turdoides caudata	R	С
Jungle babler	Turdoides malcolmi	R	С
Large grey babler	Turdoides striata	R	C
Yellow eye babler	Chrysomma sinense	R	C
Tenow eye bubier	Girysonina sinense		ď
Campephagidae			
Small minivet	Pericrocotus cinnamomeus	R	С
Muscicapidae			
Red breasted flycatcher	Ficedula parva	WM	С
Tickells blue flycatcher			
Verditer flycatcher	Cyornis tickelliae	R	U
Asian brown flycatcher	Eumyias thalassinus	WM	U
Indian robin	Muscicapa dauurica	RM	С
Oriental magpie robin	Saxicoloides fulicatus	R	С
Black red start	Copsychus saularis	R	С
Pied bush chat	Phoenicurus ochruros	RM	С
Common stone chat	Saxicola caprata	R	С
Siberian stone chat	Saxicola torquatus	R	С
Monorghidos	Saxicola maurus	WM	0
Monarchidae	Tarnsinhana naradisa	D	С
Asian paradise flycatcher	Terpsiphone paradise	R	C
Rhipiduridae			
White browed fantail	Rhipidura aureola	R	С
	piuui u uui ootu		<u> </u>
Cisticolidae			
Ashy prinia	Prinia socialis	R	С
Plain prinia	Prinia inornata	R	C
Jungle prinia	Prinia sylvatica	R	C
Common tailor bird	Orthotomus sutorius	R	С
Zitting cisticola	Cisticola juncidis	R	С
Zitung cisucola	<i>ตรินัยดิน วินิทิยิโนโร</i>	K	C

Sylviidae	<u> </u>		<u> </u>
_	C 1 ·	XA73.#	
Lesser white throat	Sylvia curruca	WM	С
Phylloscopidae			
Common chiffchaff	Phylloscopus collybita	WM	С
Turdidae			
Orange headed thrush	Geokichla citrine	R	U
Paridae			
Cinereous tit	Parus major	R	U
Indian yellow tit	Parus xanthogenys	R	U
maian yenow tie	Turus kuntinogenys		
Motacillidae			
Grey wagtail	Motacilla cinerea	WM	С
Yellow wagtail	Motacilla flava	WM	C
Citrine wagtail	Motacilla citreola	WM	C
White browed wagtail	Motacilla maderaspatensis	R	С
White wagtail	Motacilla alba	WM	С
Paddy field pipit	Anthus rufulus	R	С
Tree pipit	Anthus trivialis	RM	С
Zosteropidae			
Oriental white eye	Zosterops palpebrosus	R	С
-			
Nectariniidae			
Purple sunbird	Cinnyris asiaticus	R	С
Purple rumped sunbird	Leptocoma zeylonica	R	C
Turple rumped sunond	Deptocoma Zeytomea		
Passeridae			
	Passer domesticus	R	C
house sparrow			C
chestnut shoulder petronia	Gymnoris xanthocollis	R	C
Plantida			
Ploceidae	DI LUL		
Baya weaver	Ploceus philippinus	R	С
Estrildidae			
Indian silverbill	Euodice malabarica	R	С
Red avadavat	Amandava amandava	R	C
White rumped munia	Lonchura striata	R	U
Scaly breasted munia	Lonchura punctulata	R	U
Black headed munia	Lonchura malacca	R	U
Emberizidae			
Black headed bunting	Emberiza melanocephala	WM	С
		1	1

Abbreviation used in the Table: -

Status :- R- Resident, RM- Resident Migrant, WM- Winter Migrant, BM- Breeding Migrant and PM- Passage Migrant.

Abundance: - C- Common, U- Uncommon, O- Occasional, L- Rare



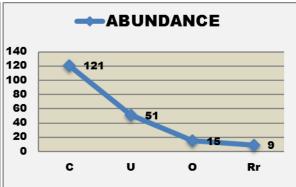


Fig. 2: showing the status

Fig. 3: Showing abundance

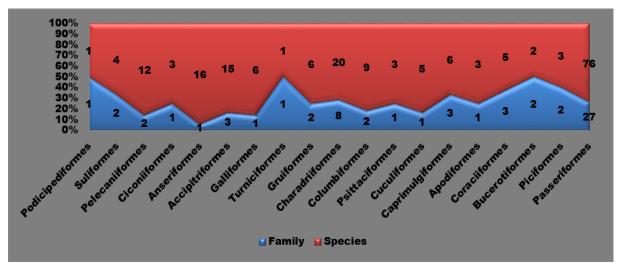


Fig. 4: Showing percentage species per family

It was seen that Indian Silverbill found into a flocks in winter. The Rosy Starlindg was found after winter in flocks. House Sparrow was also found in small flocks throughout year. However Painted Stork, Common Coot, Red Crested Pochard, Northern Shoveler, Northern Pintail, Spot billed Duck, Lesser whistling Duck, Rudy Shelduck, were found in flocks during winter. Some surprisingly birds like bar headed Goose, Comb Duck, Jungle Owlet, Pallid Harrier; White eye Buzzard, Common Crane and Demoiselle Crane was also sighted at dam area. Some important and rare sighting were Greylag Goose, Osprey, Grey headed fish Eagle, Eurasian Thick-Knee and Indian Skimmer.

Conflicts of interest: The authors stated that no conflicts of interest.

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