RESEARCH ARTICLE

Avifauna and Comparative Study of Threatened Birds at Urban Wetlands of Kolhapur, Maharashtra, India

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ABSTRACT

Kolhapur is blessed with numbers of wetlands which is productive and unique ecosystem that support number of birds. The present study focus on avifaunal diversity and population status of threatened bird species by Diversity indices at in and around the wetlands of Kolhapur from 2016-2017. Bird survey was conducted according to line transect method and standard point count method. Species Diversity indices and Simpson index were used for statistical analysis. A total of 159 species of birds belonging to 17 orders and 60 families were recorded, of those 109 species of terrestrial birds and 50 species of water birds were observed. Out of 159 birds, 93 residential, 50 residential migratory and 15 are migratory. Of those one species is vulnerable, three species near threatened were observed. Among the birds recorded in study area, about 43% were insectivores and other dominating types include mixed diet 10%, piscivores 15%, omnivores 9%, carnivores 9%, granivores 9%, fructivores 2% and nectivores 3% respectively. Diversity of threatened birds was higher in Kalamba Lake as compare to other Wetlands. Urban wetlands are rich enough to attract birds and provide abundant food and safe passage for nesting, boosting and molting purpose.

Keyword: Threatened Birds, Species Diversity Indices, Simpson Index, Avifaunal diversity, Urban Wetland.

INTRODUCTION

Water is a basic and primary need of all vital processes and it is now well established that the life first arose in aquatic environment. As humans civilization is always grown around the water bodies or constructed ponds for their settlement and daily requirements, such type of wetlands had already started supporting flora and fauna along with avifauna. The birds are bio-indicators of ecosystems as the changes in the environment occur they respond by changing their composition, behavior and population (Bilgrami, 1995). Water birds are most important components of wetland ecosystem as they occupy several tropical levels in the food web of wetland

nutrient cycle (Custer and Osborne, 1977). Through the number of studies it can be stated that avifauna responses to urbanization and are enormously growing (Rathod and Padate, 2008).

The avifauna of India and Pakistan was studied by Ali and Ripley (1987). According to Pande et al. (2011) reported species number from Maharashtra was 568 from 83 families and 20 orders, many authors have contributed to avifaunal diversity and distribution records in Maharashtra since few decades. Bhivate and Patil (2016) reported 122 species belonging to 18 orders and 54 families from Shivaji University, Kolhapur.

The present study report the avian diversity along with their migration status, IUCN status, Feeding guilds, nesting and habitat use due to influence of urbanization on avifaunal diversity is compared between five wetlands which have different anthropogenic pressure but have same weather conditions in terms of Species diversity indices and Simpson index. A regular and meticulous study of these wetlands will absolutely help to keep a record of birds species (resident, migratory and Threatened), thus helping to restore as well as to maintain the present condition of all of the five wetlands.

MATERIAL AND METHODS

Study area:

Kolhapur is situated at south-west of Maharashtra and study conducted in and around the 5 wetlands sites of Kolhapur.

1. Rankala (W1) -

It is an artificial lake situated at centre of Kolhapur (Lat 16°41'15.84"N, Lon 74°12'41.59"E). The wetland is disturb by human activities such as washing clothes, washing livestock, boating, tourism but also there is a great amount of avifaunal diversity due to availability of large amount of food. Migratory and threatened bird species and nesting were observed around the wetland.

2. Rajaram lake (W2) (Shivaji University)-

It is situated in Shivaji university campus area (Lat16°40'46.50"N, Lon 74°15'54.65"E) and low affected by the human activities and have abundant diversity of avifauna and also migratory and threatened bird species visit.

3. Kalamba Lake (W3) -

It is an oldest lake from Kolhapur constructed during British rule, it is away from city (Lat 16°39'16.12"N, Lon 74°12'42.19"E) and has abundant amount of migratory and threatened bird species. Wetland is less disturbed by human activities.

4. Kandal gaon lake (W4) -

It is situated away from the city (Lat 16°37'52.80"N, Lon 74°14'44.54"E) and has low influence of human activities so has large amount of avifaunal diversity, the wetland water is used for agricultural processes and wetland is surrounded by agriculture.

5. New Palace (W5) -

The wetland is conserved and protected by fence around it and there is no direct influence of human activities though it is a tourism point, it is situated in



Fig.1. Location map of Wetlands of Kolhapur

city area (Lat 16°43'0.56"N, Lon 74°14'0.65"E). Migratory birds prefer to visit the wetland so as have abundant amount of food and nesting is abundantly seen of threatened bird species.

Methodology-

Binocular Olympus 10*50 X, was used for close observation of birds and for photography Cannon-EOS 700 D camera, with Lens 55-250 mm. Book of Indian Birds by Salim Ali (2002) and Birds of the Indian Subcontinent by Grimmet et al. (2014) were used as field guides and for preparing check list. Bird survey was also conducted according to line transect method (Sale and Berkmuller, 1988), standard point count method (Altmann, 1974). The data collected from the surveys were used to estimate diversity and status of bird species. The survey was conducted during January 2016 to February 2017. Survey was conducted for 3 days in a week in morning (7.00 am to 10.00 am) and in evening (5.00 pm to 7.00 pm).

Statistical and Data analysis-

Marking of water bodies has done with the help of Google Earth. Diversity Indices like Shannon Wiener Index (H'), Species Richness (d'), Evenness indices (j') (Shannon and Weaver, 1949). and Simpson Index (D) (Simpson, 1949) was use to estimate population status of threatened birds species.

Formula

1. Shannon Wiener Index (H')

$$H' = \sum_{i=1}^{s} - Pi \ln Pi$$

Where, $Pi = \frac{Number\ of individuals\ of\ otne\ species}{Total\ number\ of\ all\ individual(N)}$

2. Species Richness (d')

$$d' = \frac{S - 1}{\log(N)}$$

Where, S = total number of species

N = total number of individuals of all species

3. Evenness (j')

$$j' = \frac{H}{\log(S)}$$

Where, H = Shannon Wiener diversity index S = total number of species

4. Simpson Index (D)

$$D = 1 - \frac{\sum n(n-1)}{N(N-1)}$$

Where, n = number of individuals of each species N = total number of individuals of all species

RESULTS AND DISCUSSION

Wetlands are important bird habitats, birds utilize it for activities like feeding, breeding, nesting and rearing young ones. Kalamba lake has less urban pressure comparatively other wetlands, However it has high avifaunal diversity, almost same number of species are sited at Rankala Lake, Rajaram Lake and New palace lake, Kandal gaon lake has less count of water birds and high diversity of terrestrial birds.

Table.1. Consolidated Checklist of Birds of Wetlands of Kolhapur, along with status, feeding guild, IUCN Status.

Sr.	Common Name	Scientific Name	Family	Status	Feeding	IUCN
No.					guild	Status
Orde	r - Podicipitidae					
1	Little Grebe	Tachybaptus ruficollis	Podicipitidae	R	P	LC
Orde	r - Pelecaniformes					
2	Large cormorant	Phalacrocorax carbo	Phalacrocoracdiae	RM	P	LC
3	Little cormorant	Phalacrocorax niger	Phalacrocoracdiae	R	P	LC
4	Indian shag/ Darter	Phalacrocorax fuscicollis	Phalacrocoracdiae	RM	P	LC
Orde	r - Ciconiiformes					
5	Indian pond-heron	Ardeola grayii	Ardeidae	R	P	LC
6	Intermediate Egret	Mesophoyx intermedia	Ardeidae	M	P	LC
7	Cattle egret	Bubulcus ibis	Ardeidae	R	P	LC
8	Little egret	Egretta garzetta	Ardeidae	R	P	LC
9	Grey heron	Ardea cinerea	Ardeidae	R	P	LC
10	Purple heron	Ardea purpuria	Ardeidae	R	P	LC

Table.1. Continued...

12 wooly-Necked Stork	Sr. No.	Common Name Scientific Name Family		Status	Feeding guild	IUCN Status	
12 wooly-Necked Stork	Orde	- Ciconiiformes					
13 Asian open billed stork 14 White-Headed Ibis Threskiornis melanocephalus Threskiornithidae RM P LC 15 Black Ibis Pseudibis papillosa Threskiornithidae RM P LC 16 Glossy Ibis Plegadis falcinellus Threskiornithidae RM P LC Threskiornithidae RM C LC Threskio	11		Mycteria leucocephala		R	P	NT
14 White-Headed Ibis Pseudibis papillosa Threskiornithidae RM P NT	12	5	Ciconia episcopus	Ciconiidae	RM	P	VU
15 Black Ibis	13	Asian open billed stork	Anastomus oscitans	Ciconiidae	R	P	LC
Threskiornithidae RM P LC	14	White-Headed Ibis	Threskiornis melanocephalus	Threskiornithidae	RM	P	NT
Threskiornithidae RM P LCO Order-Anseriformes	15	Black Ibis		Threskiornithidae	RM	P	LC
Order - Anseriformes 18 Brahminy Shelduck Tadorna ferruginea Anatidae M P LC	16	Glossy Ibis	Plegadis falcinellus	Threskiornithidae	RM	P	LC
18 Brahminy Shelduck Tadorna ferruginea Anatidae M P LC		-	Anastomus oscitans	Threskiornithidae	RM	P	LC
19 Common Teal Anas crecca Anatidae M P LC 20 Spot-billed Duck Anus poecilorhyncha Anatidae R P LC 21 Gadwall Anas strepera Anatidae M P LC Order-Falconiformes 22 Black-Shouldered Kite Elanus caeruleus Accipitridae R C LC 23 Shikra Accipitre badius Accipitridae R C LC 24 Brahminy kite Haliastur indus Accipitridae R C LC 25 Black Kite Milvus migrans Accipitridae R C LC 26 Eurasian sparrowhawk Accipiter nisus Accipitridae RM C LC 27 White-eyed Buzzard Butastur teesa Accipitridae RM C LC 28 Crested Serpent-eagle Spilornis cheela Accipitridae RM C LC 29 Western Marsh-Harrier Circus aeruginosus Accipitridae RM C LC 29 Western Marsh-Harrier Circus aeruginosus Accipitridae RM C LC 30 Common Kestrel Falco tinunculus Falconidae RM C LC 31 Osprey Pandion haliaetus Pandionidae RM C LC 32 Painted Francolin Francolinus pictus Phasianide R O LC 33 Grey Francoline Francolinus pondicerianus Phasianide R O LC 34 Indian Peafowl Pavo cristatus Phasianide R O LC 35 White-Breasted Water Hen Amaurornis akool Rallidae R O LC 36 Purple Moorhen Porphyrio porphyrio Rallidae R O LC 37 Common Coot Fulica atra Rallidae R O LC 38 Phasant tailed jacana Hydrophasianus chirurgus Jacanidae R I LC 39 Bronzed-Winged Jacana Metopidius indicus Jacanidae R I LC 40 Marsh Sandpiper Tringa stagnatilis Charadriidae R I LC 41 Common sandpiper Tringa stagnatilis Charadriidae R I LC 42 Wood sandpiper Tringa stagnatilis Charadriidae R I LC 43 Common Tern Sterna aurantia Laridae R I LC 44 River tern Sterna aurantia Laridae R I LC 45 Black winged stilt Himantopus himantopus Recurvirostridae R I LC 46 Pallow wattled lapwing Vanellus indicus Charadriidae R I LC 47 Red wattled lapwing Vanellus malabaricus Charadriidae R I LC 48 Little Stint Calidris minuta Chardriidae R I LC 49 Little Stint Calidris minuta Charadriidae R I LC 40 Little Stint Calidris minuta Chardriidae R I LC 40 Little Stint Calidris minuta Chardriidae R I LC	Orde	r - Anseriformes					
20 Spot-billed Duck Anus poecilorhyncha Anatidae R P LC	18	Brahminy Shelduck	Tadorna ferruginea	Anatidae	M	P	LC
21 Gadwall Anas strepera	19	Common Teal	Anas crecca Anatidae		M	P	LC
Order - Falconiformes 22 Black-Shouldered Kite Elanus caeruleus Accipitridae R C LC	20	Spot-billed Duck	Anus poecilorhyncha	Anus poecilorhyncha Anatidae		P	LC
22 Black-Shouldered Kite Elanus caeruleus Accipitridae R C LC 23 Shikra Accipiter badius Accipitridae R C LC 24 Brahminy kite Haliastur indus Accipitridae R C LC 25 Black Kite Milvus migrans Accipitridae R C LC 26 Eurasian sparrowhawk Accipiter nisus Accipitridae R C LC 27 White-eyed Buzzard Butastur teesa Accipitridae RM C LC 28 Crested Serpent-eagle Spilornis cheela Accipitridae RM C LC 29 Western Marsh-Harrier Circus aeruginosus Accipitridae M C LC 30 Common Kestrel Falco tinnunculus Falconidae RM C LC 31 Osprey Pandion haliaetus Pandionidae RM C LC 32 Painted Francolin Francolinus pictus Phasianide R O LC 33 Grey Francoline Francolinus pictus Phasianide R O LC 34 Indian Peafowl Pavo cristatus Phasianide R O LC 35 White-Breasted Water Hen Amaurornis akool Rallidae R O LC 36 Purple Moorhen Porphyrio porphyrio Rallidae R O LC 37 Common Coot Fulica atra Rallidae R O LC 38 Pheasant tailed jacana Hydrophasianus chirurgus Jacanidae R I LC 40 Marsh Sandpiper Tringa stagnatilis Charadriidae R I LC 41 Common sandpiper Tringa phypoleucos Charadriidae R I LC 42 Wood sandpiper Tringa phypoleucos Charadriidae R I LC 43 Common Tern Sterna aurantia Laridae R I LC 44 River tern Sterna hirundo Laridae R I LC 45 Black winged stilt Himantopus himantopus Recurvirostridae R I LC 46 Yellow wattled lapwing Vanellus midicus Charadriidae R I LC 47 Charadriidae R I LC 48 Little ringed plover Charadris dabius Charadriidae R I LC 49 Little Stint Calidris minuta Charadriidae R I LC 49 Little ringed plover Charadris dabius Charadriidae R I LC 40 Little ringed plover Charadris dabius Charadriidae R I LC 40 Little ringed plover Charadris dabius Charadriidae R I LC 44 Little ringed plover Charadris dabius Charadriidae R I LC 45 Little ringed plover Charadris dabius Charadriidae R I LC 46 Little ringed plover Charadris dabius Charadriidae R I LC 47 Little Stint Calidris minuta Charadriidae R I LC 48 Little ringed plover Charadriidae Charadriidae R I LC	21	Gadwall	Anas strepera	Anatidae	M	P	LC
23 Shikra	Orde	r - Falconiformes					
24 Brahminy kite	22	Black-Shouldered Kite	Elanus caeruleus	Accipitridae	R	С	LC
25 Black Kite	23	Shikra	Accipiter badius	Accipitridae	R	С	LC
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33 Grey Francoline Francolinus pondicerianus Phasianide R O LC 34 Indian Peafowl Pavo cristatus Phasianide R O LC Order - Gruiformes 35 White-Breasted Water Hen Amaurornis akool Rallidae R O LC 36 Purple Moorhen Porphyrio porphyrio Rallidae R O LC 37 Common Coot Fulica atra Rallidae R O LC Order - Charadriiformes 38 Pheasant tailed jacana Hydrophasianus chirurgus Jacanidae R I LC 39 Bronzed-Winged Jacana Metopidius indicus Jacanidae R I LC 40 Marsh Sandpiper Tringa stagnatilis Charadriidae M I LC 41 Common sandpiper Tringa hypoleucos Charadriidae RM I LC 42 Wood sandpiper Tringa glareola Scolopacidae M I LC 43 Common Tern Sterna hirundo Laridae RM I LC 44 River tern Sterna aurantia Laridae R I NT 45 Black winged stilt Himantopus himantopus Recurvirostridae RM I LC 47 Red wattled lapwing Vanellus malabaricus Charadriidae RM I LC 48 Little ringed plover Charadrius dabius Charadriidae RM I LC 49 Little Stint Calidris minuta Charadriidae RM I LC 49 Little Stint Calidris minuta Charadriidae RM I LC 49 Little Stint Calidris minuta Charadriidae RM I LC 49 Little Stint Calidris minuta Charadriidae RM I LC 40 Little Stint Calidris minuta Charadriidae RM I LC 41 Charadriidae RM I LC 42 Little Stint Calidris minuta Charadriidae RM I LC 43 Charadriidae RM I LC 44 River tern Sterna malabaricus Charadriidae RM I LC 45 Red Wattled Lapwing Vanellus indicus Charadriidae RM I LC 46 Little Stint Calidris minuta Charadriidae RM I LC 47 Red wattled Lapwing Vanellus indicus Charadriidae RM I LC 48 Little Stint Calidris minuta Charadriidae RM I LC	Orde	- Galliformes					
34Indian PeafowlPavo cristatusPhasianideROLCOrder - Gruiformes35White-Breasted Water HenAmaurornis akoolRallidaeROLC36Purple MoorhenPorphyrio porphyrioRallidaeROLC37Common CootFulica atraRallidaeROLCOrder - CharadriiformesSPheasant tailed jacanaHydrophasianus chirurgusJacanidaeRILC39Bronzed-Winged JacanaMetopidius indicusJacanidaeRILC40Marsh SandpiperTringa stagnatilisCharadriidaeMILC41Common sandpiperTringa hypoleucosCharadriidaeRMILC42Wood sandpiperTringa glareolaScolopacidaeMILC43Common TernSterna hirundoLaridaeRMILC44River ternSterna aurantiaLaridaeRINT45Black winged stiltHimantopus himantopusRecurvirostridaeMILC46Yellow wattled lapwingVanellus malabaricusCharadriidaeRMILC47Red wattled lapwingVanellus indicusCharadriidaeRMILC48Little ringed ploverCharadrius dabiusCharadriidaeRMILC49Little StintCalidris minutaCharadriidaeMILC	32	Painted Francolin	Francolinus pictus	Phasianide	R	0	LC
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35 White-Breasted Water Hen Amaurornis akool Rallidae R O LO 36 Purple Moorhen Porphyrio porphyrio Rallidae R O LO 37 Common Coot Fulica atra Rallidae R O LO Order - Charadriiformes 38 Pheasant tailed jacana Hydrophasianus chirurgus Jacanidae R I LO 39 Bronzed-Winged Jacana Metopidius indicus Jacanidae R I LO 40 Marsh Sandpiper Tringa stagnatilis Charadriidae M I LO 41 Common sandpiper Tringa hypoleucos Charadriidae RM I LO 42 Wood sandpiper Tringa glareola Scolopacidae R I LO 43 Common Tern Sterna hirundo Laridae RM I LO 44 River tern Sterna aurantia Laridae R I NO 45 Black winged stilt Himantopus himantopus Recurvirostridae RM I LO 46 Yellow wattled lapwing Vanellus malabaricus Charadriidae R I LO 47 Red wattled lapwing Vanellus indicus Charadriidae R I LO 48 Little ringed plover Charadrius dabius Charadriidae R I LO 49 Little Stint Calidris minuta Charadriidae R I LO 49 Little Stint Calidris minuta Charadriidae R I LO 40 LO 41 Common Tern Sterna chirundo Laridae R I LO 41 Red Wattled Lapwing Vanellus indicus Charadriidae R I LO 42 LO 43 Common Tern Sterna chirundo R R I LO 44 River tern Sterna chirundo R R I LO 45 Black winged stilt Himantopus himantopus R Recurvirostridae R I LO 46 Yellow Wattled Lapwing Vanellus indicus Charadriidae R I LO 47 Red Wattled Lapwing Vanellus indicus Charadriidae R I LO 48 Little Stint Calidris minuta Charadriidae R M I LO	34	Indian Peafowl	Pavo cristatus	Phasianide	R	0	LC
36Purple MoorhenPorphyrio porphyrioRallidaeROLO37Common CootFulica atraRallidaeROLOOrder - Charadriiformes38Pheasant tailed jacanaHydrophasianus chirurgusJacanidaeRILO39Bronzed-Winged JacanaMetopidius indicusJacanidaeRILO40Marsh SandpiperTringa stagnatilisCharadriidaeMILO41Common sandpiperTringa hypoleucosCharadriidaeRMILO42Wood sandpiperTringa glareolaScolopacidaeMILO43Common TernSterna hirundoLaridaeRMILO44River ternSterna aurantiaLaridaeRINO45Black winged stiltHimantopus himantopusRecurvirostridaeMILO46Yellow wattled lapwingVanellus malabaricusCharadriidaeRILO47R	Orde	- Gruiformes					
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Order - Charadriiformes 38 Pheasant tailed jacana Hydrophasianus chirurgus Jacanidae R I LC 39 Bronzed-Winged Jacana Metopidius indicus Jacanidae R I LC 40 Marsh Sandpiper Tringa stagnatilis Charadriidae M I LC 41 Common sandpiper Tringa hypoleucos Charadriidae RM I LC 42 Wood sandpiper Tringa glareola Scolopacidae M I LC 43 Common Tern Sterna hirundo Laridae RM I LC 44 River tern Sterna aurantia Laridae R I NT 45 Black winged stilt Himantopus himantopus Recurvirostridae M I LC 46 Yellow wattled lapwing Vanellus malabaricus Charadriidae RM I LC 47 Red wattled lapwing Vanellus indicus Charadriidae RM I LC 48 Little ringed plover Charadrius dabius Charadriidae RM I LC 49 Little Stint Calidris minuta Charadriidae RM I LC 49 Little Stint Calidris minuta Charadriidae M I LC	36	Purple Moorhen	Porphyrio porphyrio	Rallidae	R	0	LC
38Pheasant tailed jacanaHydrophasianus chirurgusJacanidaeRILC39Bronzed-Winged JacanaMetopidius indicusJacanidaeRILC40Marsh SandpiperTringa stagnatilisCharadriidaeMILC41Common sandpiperTringa hypoleucosCharadriidaeRMILC42Wood sandpiperTringa glareolaScolopacidaeMILC43Common TernSterna hirundoLaridaeRMILC44River ternSterna aurantiaLaridaeRINT45Black winged stiltHimantopus himantopusRecurvirostridaeMILC46Yellow wattled lapwingVanellus malabaricusCharadriidaeRMILC47Red wattled lapwingVanellus indicusCharadriidaeRILC48Little ringed ploverCharadrius dabiusCharadriidaeRMILC49Little StintCalidris minutaCharadriidaeMILC	37	Common Coot	Fulica atra	Rallidae	R	0	LC
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41Common sandpiperTringa hypoleucosCharadriidaeRMILC42Wood sandpiperTringa glareolaScolopacidaeMILC43Common TernSterna hirundoLaridaeRMILC44River ternSterna aurantiaLaridaeRINT45Black winged stiltHimantopus himantopusRecurvirostridaeMILC46Yellow wattled lapwingVanellus malabaricusCharadriidaeRMILC47Red wattled lapwingVanellus indicusCharadriidaeRILC48Little ringed ploverCharadrius dabiusCharadriidaeRMILC49Little StintCalidris minutaCharadriidaeMILC	39	Bronzed-Winged Jacana	Metopidius indicus	Jacanidae	R	I	LC
42Wood sandpiperTringa glareolaScolopacidaeMILC43Common TernSterna hirundoLaridaeRMILC44River ternSterna aurantiaLaridaeRINT45Black winged stiltHimantopus himantopusRecurvirostridaeMILC46Yellow wattled lapwingVanellus malabaricusCharadriidaeRMILC47Red wattled lapwingVanellus indicusCharadriidaeRILC48Little ringed ploverCharadrius dabiusCharadriidaeRMILC49Little StintCalidris minutaCharadriidaeMILC	40	Marsh Sandpiper	Tringa stagnatilis	Charadriidae	M	I	LC
43Common TernSterna hirundoLaridaeRMILC44River ternSterna aurantiaLaridaeRINT45Black winged stiltHimantopus himantopusRecurvirostridaeMILC46Yellow wattled lapwingVanellus malabaricusCharadriidaeRMILC47Red wattled lapwingVanellus indicusCharadriidaeRILC48Little ringed ploverCharadrius dabiusCharadriidaeRMILC49Little StintCalidris minutaCharadriidaeMILC	41	Common sandpiper	Tringa hypoleucos	Charadriidae	RM	I	LC
44River ternSterna aurantiaLaridaeRIN745Black winged stiltHimantopus himantopusRecurvirostridaeMILC46Yellow wattled lapwingVanellus malabaricusCharadriidaeRMILC47Red wattled lapwingVanellus indicusCharadriidaeRILC48Little ringed ploverCharadrius dabiusCharadriidaeRMILC49Little StintCalidris minutaCharadriidaeMILC	42	Wood sandpiper	Tringa glareola	Scolopacidae	M	I	LC
45 Black winged stilt Himantopus himantopus Recurvirostridae M I LC 46 Yellow wattled lapwing Vanellus malabaricus Charadriidae RM I LC 47 Red wattled lapwing Vanellus indicus Charadriidae R I LC 48 Little ringed plover Charadrius dabius Charadriidae RM I LC 49 Little Stint Calidris minuta Charadriidae M I LC	43	Common Tern	Sterna hirundo	Laridae	RM	I	LC
46Yellow wattled lapwingVanellus malabaricusCharadriidaeRMILC47Red wattled lapwingVanellus indicusCharadriidaeRILC48Little ringed ploverCharadrius dabiusCharadriidaeRMILC49Little StintCalidris minutaCharadriidaeMILC	44	River tern	Sterna aurantia	Laridae	R	I	NT
46Yellow wattled lapwingVanellus malabaricusCharadriidaeRMILC47Red wattled lapwingVanellus indicusCharadriidaeRILC48Little ringed ploverCharadrius dabiusCharadriidaeRMILC49Little StintCalidris minutaCharadriidaeMILC	45	Black winged stilt	Himantopus himantopus	Recurvirostridae	M	I	LC
47Red wattled lapwingVanellus indicusCharadriidaeRILC48Little ringed ploverCharadrius dabiusCharadriidaeRMILC49Little StintCalidris minutaCharadriidaeMILC	46			Charadriidae	RM	I	LC
48 Little ringed plover <i>Charadrius dabius</i> Charadriidae RM I LC 49 Little Stint <i>Calidris minuta</i> Charadriidae M I LC	47		Vanellus indicus	Charadriidae	R	I	LC
49 Little Stint Calidris minuta Charadriidae M I LC	48		Charadrius dabius	Charadriidae	RM	I	LC
50 Temmincks Stint Calidris temminckii Charadriidae M I L.C	49	Little Stint	Calidris minuta	Charadriidae	M	I	LC
2	50	Temmincks Stint	Calidris temminckii	Charadriidae	M	I	LC

Table.1. Continued...

Section Columbiformes Columbidae RM Gereign Freron phoenicoptera Columbidae RM Gereign Freron phoenicoptera Columbidae RM Gereign Section Columba livia Columbidae RM Gereign Gereign Columbidae RM Gereign Gereig	_	Feeding guild	Status	Common Name Scientific Name Family		Sr. No.	
Pigeon 52 Blue rock pigeon						r - Columbiformes	Orde
Southed dove Streptopelia chinensis Columbidae R G	G LC	G	RM	Columbidae	Treron phoenicoptera		51
Spotted dove Streptopelia chinensis Columbidae R G	G LC	G	R	Columbidae	Columba livia		52
54Laughing doveStreptopelia senegalensisColumbidaeRG55Rufous turtle doveStreptopelia orientalisColumbidaeRMG56Eurasion Collared-doveStreptopelia decaoctoColumbidaeRMGOrder - PsittaciformesStreptopelia decaoctoColumbidaeRF57Rose ringed parakeetPsittacula krameriPsittacidaeRF58Vernal Hanging ParrotLoriculus vernalisPsittacidaeRMFOrder - CuculiformesStreptopelia decoccyx variusCuculidaRMI60Common Hawk CuckooCacomantis passerinesCuculidaRMI61Pied crested cuckooClamator jacobinusCuculidaRMI62Indian banded bay cuckooCacomantis sonneratiiCuculidaRI63KoelEudynamys scolopaceaCuculidaRF64Southern CoucalCentropus sinensisCuculidaRI65Barn owlTyto albaTytonidaeRC66Spotted OwletAthene bramaStrigidaeRC65Barn owlTyto albaTytonidaeRI70rder - CaprimulgiformesGaprimulgus asiaticusCaprimulgidaeRI67Indian Little NightjarCaprimulgus asiaticusCaprimulgidaeRI68Alpine swiftApus malbaApodidaeRI69House swiftApus malba<							
Standard Standard Streptopelia orientalis Columbidae RM G						•	
Order - Psittaciformes 57 Rose ringed parakeet		G	RM	Columbidae		<u> </u>	55
Sittaciformes	G LC	G	RM	Columbidae	Streptopelia decaocto	Eurasion Collared-dove	56
58Vernal Hanging ParrotLoriculus vernalisPsittacidaeRMFOrder - Cuculiformes59Grey-bellied CuckooCacomantis passerinesCuculidaRMI60Common Hawk CuckooHierococcyx variusCuculidaRMI61Pied crested cuckooClamator jacobinusCuculidaRMI62Indian banded bay cuckooCacomantis sonneratiiCuculidaRI63KoelEudynamys scolopaceaCuculidaRF64Southern CoucalCentropus sinensisCuculidaRIOrder - StrigiformesCuculidaRI65Barn owlTyto albaTytonidaeRC66Spotted OwletAthene bramaStrigidaeRCOrder - CaprimulgiformesCaprimulgus asiaticusCaprimulgidaeRIOrder - Apodiformes68Alpine swiftApus malbaApodidaeRI69House swiftApus affinisApodidaeRIOrder - Coraciiformes70Common kingfisherAlcedo atthisAlcedinidaeRP71Pied kingfisherAlcedo atthisAlcedinidaeRP72White breasted kingfisherHalcyon smyrensisAlcedinidaeRP73Indian rollerCoracius benghalensisCoracidaeRMI74Asian green bee-eaterMeropos orientalisMeropidaeRMI					· ·	r - Psittaciformes	Order
Order - Cuculiformes59Grey-bellied CuckooCacomantis passerinesCuculidaRMI60Common Hawk CuckooHierococcyx variusCuculidaRMI61Pied crested cuckooClamator JacobinusCuculidaRMI62Indian banded bay cuckooCacomantis sonneratiiCuculidaRI63KoelEudynamys scolopaceaCuculidaRF64Southern CoucalCentropus sinensisCuculidaRIOrder - StrigiformesCuculidaRCC65Barn owlTyto albaTytonidaeRC66Spotted OwletAthene bramaStrigidaeRCOrder - CaprimulgiformesCaprimulgus asiaticusCaprimulgidaeRI67Indian Little NightjarCaprimulgus asiaticusCaprimulgidaeRIOrder - Apodiformes68Alpine swiftApus malbaApodidaeRI69House swiftApus affinisApodidaeRIOrder - Coraciiformes70Common kingfisherAlcedo atthisAlcedinidaeRP71Pied kingfisherCeryl rudisAlcedinidaeRP72White breasted kingfisherHalcyon smyrensisAlcedinidaeRP73Indian rollerCoracius benghalensisCoracidaeRMI74Asian green bee-eaterMeropos orientalisMeropidae	F LC	F	R	Psittacidae	Psittacula krameri	Rose ringed parakeet	57
59Grey-bellied CuckooCacomantis passerinesCuculidaRMI60Common Hawk CuckooHierococcyx variusCuculidaRMI61Pied crested cuckooClamator jacobinusCuculidaRMI62Indian banded bay cuckooCacomantis sonneratiiCuculidaRI63KoelEudynamys scolopaceaCuculidaRF64Southern CoucalCentropus sinensisCuculidaRIOrder - StrigiformesTyto albaTytonidaeRC66Spotted OwletAthene bramaStrigidaeRC67Indian Little NightjarCaprimulgus asiaticusCaprimulgidaeRIOrder - Apodiformes68Alpine swiftApus malbaApodidaeRI69House swiftApus affinisApodidaeRIOrder - Coraciiformes70Common kingfisherAlcedo atthisAlcedinidaeRP71Pied kingfisherAlcedo atthisAlcedinidaeRP72White breasted kingfisherHalcyon smyrensisAlcedinidaeRP73Indian rollerCoracius benghalensisCoracidaeRMI74Asian green bee-eaterMerops orientalisMeropidaeRMI75HoopoeUpua epopsUpupidaeRMI75HoopoeUpua epopsUpupidaeRMI/C/F76Common grey ho	F LC	F	RM	Psittacidae	Loriculus vernalis	Vernal Hanging Parrot	58
60 Common Hawk Cuckoo Hierococcyx varius Cuculida RM I 61 Pied crested cuckoo Clamator jacobinus Cuculida RM I 62 Indian banded bay cuckoo Cacomantis sonneratii Cuculida R I 63 Koel Eudynamys scolopacea Cuculida R I 64 Southern Coucal Centropus sinensis Cuculida R I 65 Barn owl Tyto alba Tytonidae R C 66 Spotted Owlet Athene brama Strigidae R C 67 Indian Little Nightjar Caprimulgus asiaticus Caprimulgidae R I 68 Alpine swift Apus malba Apodidae R I 69 House swift Apus affinis Apodidae R I 60 Corder - Coraciiformes 70 Common kingfisher Alcedo atthis Alcedinidae R P 71 Pied kingfisher Ceryl rudis Alcedinidae R P 72 White breasted kingfisher Halcyon smyrensis Alcedinidae R P 73 Indian roller Coracius benghalensis Coracidae RM I 74 Asian green bee-eater Merops orientalis Meropidae RM I 75 Hoopoe Upua epops Upupidae RM I 76 Common grey hornbill Tockus birostris Bucerotidae R F/I 77 Coppersmith Barbet Megalaima haemacephala Capitonidae R F/I 78 White-cheeked Barbet Megalaima viridis Capitonidae R F/I						r - Cuculiformes	Order
61Pied crested cuckooClamator jacobinusCuculidaRMI62Indian banded bay cuckooCacomantis sonneratiiCuculidaRI63KoelEudynamys scolopaceaCuculidaRF64Southern CoucalCentropus sinensisCuculidaRIOrder - Strigiformes65Barn owlTyto albaTytonidaeRC66Spotted OwletAthene bramaStrigidaeRCOrder - Caprimulgiformes67Indian Little NightjarCaprimulgus asiaticusCaprimulgidaeRIOrder - Apodiformes68Alpine swiftApus malbaApodidaeRI69House swiftApus affinisApodidaeRIOrder - Coraciiformes7070Common kingfisherAlcedo atthisAlcedinidaeRP71Pied kingfisherAlcedo atthisAlcedinidaeRP71Pied kingfisherAlcedinidaeRP72White breasted kingfisherHalcyon smyrensisAlcedinidaeRP73Indian rollerCoracius benghalensisCora	I LC	I	RM	Cuculida	Cacomantis passerines	Grey-bellied Cuckoo	59
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79 Yellow-crowned <i>Dendrocopos mahrattensis</i> Picidae R I Woodpecker	I LC	I	R	Picidae	Dendrocopos mahrattensis		79
80 Rufous Woodpecker <i>Micropternus brachyurus</i> Picidae R I	I LC	Ī	R	Picidae	Micronternus hrachvurus		80
81 Black-rumped Flameback Dinopium benghalense Picidae R I	_						
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82 Ashy-crowned sparrow <i>Eremopterix grisea</i> Alaudidae R I lark	I LC	I	R	Alaudidae	Eremopterix grisea	Ashy-crowned sparrow	
83 Rufous-tailed finch-lark <i>Ammomanes phoenicurus</i> Alaudidae R I	I LC	I	R	Alaudidae	Ammomanes phoenicurus		83
84 Malabar crested lark <i>Galerida malabarica</i> Alaudidae R I		I			_		
85 Sykes's crested lark Galerida deva Alaudidae R I							

Table.1. Continued...

87 Common Swallow Hirundo rustica Hirundinidae RM 88 House Swallow Hirundo tahtitica Hirundinidae R 99 Wire-tailed Swallow Hirundo daurica Hirundinidae R 90 Red rumped swallow Hirundo daurica Hirundinidae RM 91 Rufous-Backed Shrike Lanius schach Laniidae RM 92 Great Grey Shrike Lanius excubitor Laniidae RM 93 Bay-backed Shrike Lanius excubitor Laniidae RM 94 Eurasian Golden oriole Oriolus oriolus Corvidae RM 95 Black-Headed Oriole Oriolus oriolus Oriolidae RM 96 Black drongo Dicrurus adsimilis Dicruridae RM 97 Ashy drongo Dicrurus leucophaeus Dicruridae RM 98 White-bellied drongo Dicrurus caerulescens Dicruridae RM 99 Rosy Starling Sturnus roseus Sturnidae RM 100 Brahminy Starling Sturnus pagodarum Sturnidae RM 101 Grey-Headed Starling Sturnus pagodarum Sturnidae RM 102 Common myna Acridotheris tristis Sturnidae R II 103 Jungle myna Acridotheris fuscus Sturnidae R II 104 Rufous Treepie Dendrocitta vegabunda Corvidae R II 105 Jungle crow Corvus macrorhynchus Corvidae R II 106 House crow Corvus macrorhynchus Corvidae R II 107 Common Woodshrike Tephrodornis pondicerianus Vangidae R II 108 Black-Headed Cuckoo- Coracina melanoptera Campephagidae R II 109 Scarlet minivet Pericrocotus flammeus Campephagidae R II 110 Common iora Aegithina tiphina Irenidae R II 111 Common iora Aegithina tiphina Irenidae R II 112 Golden fronted chloropsis Chloropsia aurifrons Chloropseidae R II 114 Red vented bulbul Pycnonotus jocosus Pycnonotidae R II 115 Common Babbler Turdoides saudatus Leiotrichidae R II 116 Large Grey Babbler Turdoides striatus Muscicapidae R II 117 Tickell's blue dabbler Perlorocotus flammeus Sylvidae R II 118 Yellow eyed babbler Chrysomma sinense Sylvidae R II 119 Puff-throated babbler Perlorenos promotus cafer Pycnonotidae R II 120 Red-Breasted Flycatcher Ficedula parva Muscicapidae RM 121 Tirckell's blue flycatcher Friedula parva Muscicapidae RM 122 Asian Paradise-flycatcher Friedula parva Muscicapidae RM 123 White-bellied Blue Cyornis pallipes Muscicapidae RM 124 Verdiver Hycatcher Eumyias thalassinus Muscicapi	No.	Common Name Scientific Name Family		Status	Feeding guild	IUCN Status	
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		Magpie robin	Copsychus saularis	Muscicapidae		I	LC
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129 Indian robin Saxicoloides fulicata Muscicapidae R	129	Indian robin	Saxicoloides fulicata	Muscicapidae	R	I	LC

Table.1. Continued...

Sr. No.	Common Name	on Name Scientific Name Family		Status	Feeding guild	IUCN Status
Order	- Passeriformes					
130	Blue Rock Thrush	Monticola solitaries	Muscicapidae	RM	0	LC
131	White-spotted fantail	Rhipidura albogularis	Rhipiduridae	R	F/I	LC
132	Plain Prinia	Prinia inornata	Cisticolidae	R	I	LC
133	Ashy Prinia	Prinia socialis	Cisticolidae	R	I	LC
134	Jungle Prinia	Prinia sylvatica	Cisticolidae	R	I	LC
135	Common Tailorbird	Orthotomus sutorius	Cisticolidae	R	N/I	LC
136	Blyth's reed warbler	Acrocephalus dumetorum	Acrocephalidae	RM	I	LC
137	Clamorous reed warbler	Acrocephalus stentoreus	Acrocephalidae	RM	I	LC
138	Common ChiffChaf	Phylloscopus collybita	Phylloscopidae	R	I	LC
139	Great tit	Parus major	Paridae	R	I	LC
140	Paddy field pipit	Anthus novaeseelandiae	Motacillidae	RM	I	LC
141	Olive-backed Pipit	Anthus hodgsoni	Motacillidae	RM	I	LC
142	Forest wagtail	Motacilla indica	Motacillidae	RM	I	LC
143	Yellow wagtail	Motacilla flava	Motacillidae	M	I	LC
144	Large pied wagtail	Motacilla maderaspatensis	Motacillidae	RM	I	LC
145	White wagtail	Motacilla alba	Motacillidae	M	I	LC
146	Thick bellied flower pecker	Dicaeum concolor	Dicaeidae	R	N	LC
147	Tickell's flowerpecker	Dicaeum agile	Dicaeidae	R	N	LC
148	Plaincoloured flowerpecker	Dicaeum erythrorynchos	Dicaeidae	R	N	LC
149	Purple rumped sunbird	Nectarinia zeylonica	Nectarinidae	R	N	LC
150	Puple sunbird	Nectarinia asiatica	Nectarinidae	R	N	LC
151	Oriental White eye	Zosterops palpebrosa	Zosteropidae	R	N/I	LC
152	House sparrow	Passer domesticus	passerinae	R	G	LC
153	Yellow throated sparrow	Petronia xanthocollis	passerinae	R	G	LC
154	Baya Weaver	Ploceus philippinus	Ploceidae	R	G	LC
155	Spotted munia	Lonchura punctualata	Estrildinae	R	G	LC
156	Red munia	Esterilda amandava	Estrildinae	R	G	LC
157	Black headed munia	Lonchura malacca	Estrildinae	R	G	LC
158	Indian Silverbill	Lonchura malabarica	Estrildinae	R	G	LC
159	White rumped Munia	Lonchura striata	Estrildinae	R	G	LC

Feeding Guild: C-Carnivore; F-Frugivore; G-Granivore; I-Insectivore; N-Nectarivore; O-Omnivore; P-Piscivore

Status: R-Resident; RM-Resident Migrant; M- Migrant

IUCN Category: LC-Least Concern, NR-Near Threatened, V-Vulnerable

Table.2. Comparison of Diversity indices and Occurrence of Threatened species for different wetland Habitats.

	1	7						
Wetland	Shannon Wiener	Species	Evenness	Simpson		Occur	rence	
Habitats	Index	Richness	index	Index	of	Threate	ned speci	es
	(H')	(d')	(j')	(D)	S1	S2	S3	S4
W1	0.4967	1.2884	0.8250	0.6705	+	-	+	+
W2	0.4740	0.9461	0.9935	0.6674	+	-	+	+
W3	0.5053	1.3861	0.8393	0.6764	+	+	+	+
W4	0.4619	1.0733	0.9681	0.6538	+	-	+	+
W5	0.4966	1.2642	0.8249	0.6721	+	-	+	+

Wetland Habitat = W1-Rankala; W2-Rajaram lake; W3-Kalamba Lake; W4-Kandal gaon lake; W5-New Palace **Occurrence of Threatened species** = S1- Painted stork, S2- Wooly-Necked Stork, S3-White-Headed Ibis, S4-River tern, + Sighted, - Not sighted



During study period, a total 159 species of birds belonging to 17 orders and 60 families were recorded (Table 1), of those 109 species of terrestrial birds belonging to 9 orders and 43 families and 50 species of water birds belonging to 8 orders and 17 families were recorded. Out of 159 birds, 93 are residential, 50 are residential migratory and 15 are migratory (Table 1). Of those one species is vulnerable (*Ciconia episcopus*), three near threatened species were observed (.i.e.

Mycteria leucocephala, Threskiornis melanocephalus, Sterna aurantia) as per IUCN Red list (IUCN (2017), Ciconia episcopus which is vulnerable species was only sited at Kalamba lake, Mycteria leucocephala, Threskiornis melanocephalus and Sterna aurantia threatened species were sited at all wetlands during study period (Table 2) same findings was reported by Bhivate and Patil (2016) at Shivaji University campus, Kolhapur district. In the previous study migrant birds

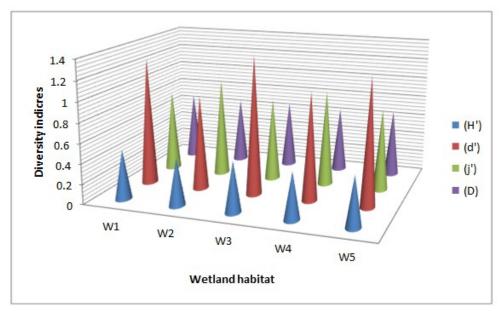
like Wigeon (Anas penelope) and Showeller (Anasclypetata) were sited by Kachare et al., 2011, but during the study period these species were not encountered. Raptors like Black-Shouldered Kite, Eurasian sparrow hawk, White-eyed Buzzard, Crested Serpent-eagle, Western Marsh-Harrier and Osprey were sited during migration.

Wetlands being a highly productive area attract birds with varying feeding habits. Birds were classified into 6 groups on the bases of feeding guilds. Among the birds species 67 were insectivores, 24 piscivores, 16 mixed diet, 14 omnivores, 15 carnivores, 14 granivores, 3 fructivores and 5 nectivores respectively (Table 1). Similar dominancy of insectivorous bird population was reported in Krishna river basin at sangli district by Kumbar and Ghadage (2013) and sothuparai reservoir, periyakulam, theni district, tamilnadu by Mary et al. (2015).

Among the 17 orders Passeriformes dominate with 78 species followed by Charadriiformes (14), Ciconiiformes (13) and Falconiformes (12). Most of the family represent by one or two species. Largest species was represented in Muscicapidae (12) followed by Accipitridae (8) and Arceidae (6) (Table 1). Wooly-Necked Stork, White-Headed Ibis, Indian Paradise flycatcher, Red-Breasted Flycatcher and Bluethroat were some important observations. Painted stork,

Little Cormorants, Spot-billed Duck were commonly observed and have abundant population in all the wetlands. Nesting of aquatic birds and terrestrial birds were recorded during the study period around the wetlands, Total 415 nesting were recorded, out of which 325 were of aquatic birds nest and 90 were of terrestrial birds.

Shannon wiener index, Species richness, Evenness index, Simpson index of threatened bird species were studied on different wetland habitats (Table 2). The density of threatened bird species were maximum at wetland W3 at the same time Shannon wiener index (H'), Species richness (d') and Simpson index (D) were recorded high for W3 continuing W1and W5 However Shannon Wiener (H') and Simpson index (D) has low density in W4 Species Richness (d') is low in W2. Evenness index were recorded higher at W2 and lower in W5 respectively (Table 2). The Shannon-Weiner Diversity Index which specifies the comparative occurrence of many species was used to associate species abundance and relative richness amongst species (Whittaker, 1977). High value of diversity indices and species richness and simpson index indicates the conductive environment of wetlands. similar observations were seen at irrigation reserviour of savli taluka, district Vadodara by Rathod and Padate (2008).



Wetland Habitat = W1-Rankala; W2-Rajaram lake; W3-Kalamba Lake; W4-Kandal gaon lake; W5-New Palace

Diversity Indices = Shannon Wiener Index - (H'); Species Richness - (d'); Evenness index - (j'); Simpson Index - (D

Fig.2. Diversity indices of different wetland habitat

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Table.3. Species distribution in their respected order

Sr. No	Orders	Number of species	Percentage %
1	Podicipitidae	1	0.62
2	Pelecaniformes	3	1.88
3	Ciconiiformes	13	8.17
4	Anseriformes	4	2.51
5	Falconiformes	10	6.23
6	Galliformes	3	1.88
7	Gruiformes	3	1.88
8	Charadriiformes	13	8.17
9	Columbiformes	6	3.77
10	Psittaciformes	2	1.25
11	Cuculiformes	6	3.77
12	Strigiformes	2	1.25
13	Caprimulgiformes	1	0.62
14	Apodiformes	2	1.25
15	Coraciiformes	7	4.40
16	Piciformes	5	3.14
17	Passeriformes	78	49
	Total	159	100

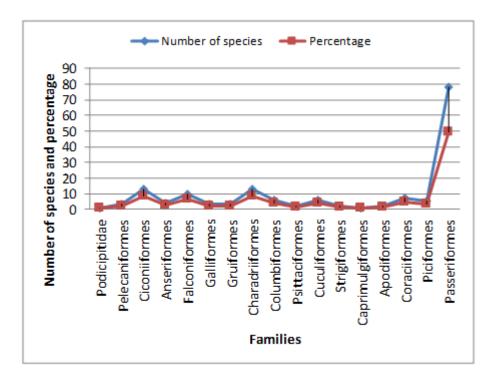


Fig.3. Showing Species distribution in their respected order

During study period various anthropogenic activities like tree cutting, urban encroachment, agriculture expansion, agricultural runoff, boating, washing clothes, washing livestock, tourism were observed in all the wetlands, all these activities are directly or indirectly responsible which is carrying out process of eutrophication of lakes, Kachare et al., (2011)

observed same threats. Average noise level, or overall noise pollution, in a wetland site seems to negatively influence the bird richness and lower levels of noise pollution observed higher bird diversity (Teyla et al., 2015). People depending upon these ponds for their domestic needs like cloth washing, domestic animal drinking and washing purpose. So anthropogenic

activities and human influence directly or indirectly affects the avian fauna. There is need of conservations of wetlands for their further conservation of diversity of birds and associated biodiversity and to maintain environmental balance.

CONCLUSION

It can be said that due to the plantation around the urban wetlands the density of the terrestrial birds are more, these plantation act as a protecting shield for the aquatic birds from human activities as well as help in nesting the terrestrial and aquatic bird species. The Species diversity indices and Simpson index of all wetlands were higher during winter due to the arrival of migrant bird species. Habitat utilized by the Ciconia episcopus is selective and mostly seen in undisturbed and silent areas, during study period Ciconia episcopus was only encountered at Kalamba Lake which has less human pressure. Other wetlands also support residential, migratory and threatened bird species. This indicates that urban wetlands are rich enough to attract birds and provide abundant food and safe passage for nesting, boosting and molting purpose. Avifauna also act as an environmental indicator a slightly change in environment it respond by changing diversity, yearly monitoring will also help us providing useful information of environmental change.

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

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