



### Significance of wetland and it's dependent Avifauna in Bangoli Wetland Complex, Raipur District, Chhattisgarh, India

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Received June 24 , 2021 ; Accepted January 20, 2022; Published online March 30 , 2022

#### Abstract

The Bangoli complex of wetlands is situated in central region of Chhattisgarh. This region is part of the Mahanadi river basin and is predominantly a plain area with the good number of tanks and village ponds. The geography of the area is mainly plains dotted with wetlands and sparse trees, thereby attracting both resident and migratory species. The aim of this study was to determine the avian diversity and composition in this complex, as no previous specific study was found undertaken. The available studies were either for specific species or covered the whole of the state. Our study spanned from the year 2015 to 2021. During the period the complex was visited intermittently covering all seasons and using standard methodology for observation and documentation, covering wetlands and their surroundings. This study area of the Bangoli complex comprised of five major wetlands and five smaller tanks, all situated within the area of about 20 sq km. Our study revealed the presence of 293 species belonging to 20 orders and 69 families. The encountered species were categorized in Occurrence status as Resident (R)171 and Migratory(M) 122 in numbers respectively; Passerby mainly coastal species in Autumn and Spring seasons, Habitat used like Aquatic(A). Near Aquatic(NA)(Shore), Grass and Arboreal (GA), Himalayan and sub-Himalayan species and Important Nesting species. Study also revealed presence of four new species unreported from central region. Also, 11 Threatened species as per Birdlife International- IUCN (2020) were identified in categories EN - 1, VU - 4, NT - 6. These wetlands are subjected to threats of

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the killing by snares and traps particularly in the winter season, commercial exploitations like fishing, cultivation, amusement, fodder collection and grazing. The destruction of habitats caused by stone quarries and crushers, felling of trees are of another major concern **Keywords:** Wetland complex, Avifauna, significance, food base.

### 1 Introduction

Lakes, wetlands, water bodies, and springs not only provide valuable ecosystem services to a region but also act as a repository for biological diversity. Wetlands are extensively important for groundwater recharge, recreational activity, retention, and regulation of pollutants and it supports many aquatic floral and faunal species for sustaining their life (Crisman 2001). Lakes perform important ecological functions and contribute to landscape heterogeneity; they support high biodiversity and unique aquatic floral and faunal species by providing crucial habitat (Bolund and Hunhammar, 1999; Engelharldt and Ritchie, 2001; Knight, 1997). The importance of wetlands in maintaining biodiversity, and subsequently focusing on avifauna. It is widely documented that the composition and structure of vegetation determines the emsable of birds, because plants provide nesting sites and shelter for birds. (Bibby, 1992; Burger, 2006). It is widely documented that the composition and structure of vegetation determines the assembly of birds, because plants in addition to providing food also provide nesting sites and shelter for birds (Finch, 1991), standing water extent, depth, duration and seasonal frequency (Wakeley and Roberts, 1994), water quality (Hoyer and Canfield, 1994), and disturbance (Craig and Barclay, 1992) in wetlands. They play an economically important role and perform a crucial function in the maintenance of wetland ecosystems (Gregory et al. 2005). Various factors like availability of food, wetland size (Paracuellos, 2006), and abiotic changes in wetlands (Jaksic 2004; Lagos et al., 2008) affect bird assemblages. In the past century, many wetlands have been lost in India, and many are degrading due to adverse human activities (Fraser and Keddy, 2005) in Chhattisgarh also, due to development and commercial activities. Fragmentation and destruction of habitat, overfishing and pollution also degrading wetlands (WWF, 2018).

Chhattisgarh state consists of 27823 wetlands (including smaller than 2.25 ha) and the area covered by wetlands are 337966 ha which is around 2.5 percent of the total geographical area of the state. The major wetland types are River/Stream accounting for about 53 percent of the wetlands (179088 ha), Reservoirs (90389 ha), and Tanks/Ponds (40226 ha) (Vishwakarma et al., 2021). Chhattisgarh state owing to its rich and diverse biodiversity harbors a variety of avifauna. This state is amply studded with numerous water bodies, tanks, and ponds, with the major river basin being Mahanadi in the central plains. Since long the Raipur district situated in this region has been the happy hunting ground for bird lovers for a long time. The avifauna of the wetlands has been the focal point, particularly the winter migrants. Though much visited and sufficiently photographed by bird lovers, no comprehensive documentation has been done. We have attempted to enlist the avian species found during the intensive study between 2015 to 2021 in the complex.

The current study was conducted to examine the significance of wetland and their dependent bird species and their importance concerning feeding habitat of selected wetlands located within the Raipur district.

## 2 Materials and Methods

### Study Area

The study of Bangoli complex comprises five major and five smaller wetlands situated within a 20 km sq area around Kharora town which is situated 30km in the northeast direction of the capital city Raipur. Mainly five wetlands were covered (Table 1) but observations were taken at isolated and en-route smaller wetlands also namely (Mand/Naiktank N 21.405143°, E 81.908201°), Naiya (N 21.393467°. E 81.932741°), Budera (N 21.393292°, E 81.928923°), Arsena (N 21.352590°, E 81.829216°), Kanki (N 21.387511°, E 81.986298°) and their surroundings have also been incorporated. All these locations are situated between altitudes of 290 m to 320 m asl.

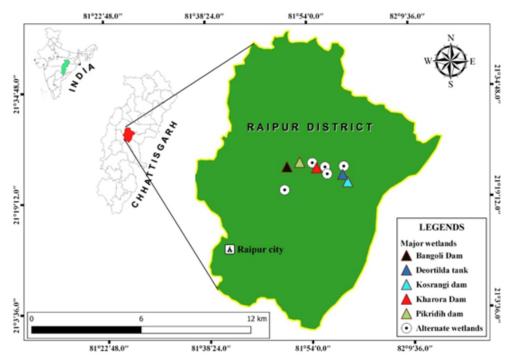


Figure 1. Study area map showing surveyed wetlands in Raipur District.

### Methods

The study site was visited for amateur bird watching since year 2000 when the observed bird species were only listed in our field diaries. Good species numbers and the congregation of residents and migratory prompted us to take up serious studies. Direct observation method was used to record species and the species were also categorized according to their habit as Aquatic (A), Near aquatic (NA), and Grassland & Arboreal (GA) species. Since October 2015 a more intensive study was undertaken to update the status from this central-region wetland complex. Field surveys conducted in all three seasons viz. winter, summer, and monsoon, from October 2015 till December 2021 an average of 40 visits has been done separately by all the authors and co-authors, invariably between 6am to 10 am and 3pm to 6pm. The aids of binoculars and cameras were used for observation and obtaining images. The identification was confirmed by following Ali and Ripley (1987); Rahmani (2008, 2012); Grimmett et al. 1998, 2014); Rasmussen and Anderton (2012). Difficult species got identified by BNHS-ENVIS and other bird experts.

Name of	Coordinates	Surface	Surroundings	Use & Threats
wetland		area In		
		Hectare		
Bangoli Dam	N 21.3969° E 81.8433°	354.56	Plantation, cultiva- tion, open plains	Commercial Fishing, irrigation, Stone quarries, and crusher units
Pikridih dam	N 21.3924° E 81.8712°	19.59	Plantation, cultiva- tion, open plains	Commercial Fish- ing, irrigation Stone quarries, and crusher units
Kosrangi dam	N 21.3673° E 81.9907°	192.78	Cultivation	Commercial Fishing irrigation
Deortilda tank	N 21.3764° E 81.9988°	3.1361	Cultivation	Irrigation
Nahardih tank (Kharora)	N 21.3931° E 81.9190°	2.3630	Cultivation	irrigation
Source; CG	COST(2011-2012)			

Table 1. Details of surveyed wetlands.

Table 2. Vegetation composition in and around wetlands.

Aquatic Plants	Trees	${ m Shrubs} \ / \ { m stands}$
Aponogetonnatans	A egelemarmelos	Ipomoea carnea
Hydrilla verticellata	$Azadirachta \ indica$	$Prosporis juli {\it flora}$
Marselia minuta	$Bombax\ ceiba$	Typha latifolia
Najas marina	$Ficus\ benghalensis$	Hygrophila auriculata
Nymphaea caerulea	Ficus religiosa	Merremiae marginata
Nymphaea rubra	Mangifera indica	Scirpus articulatus
Vallisneria spiralis	Phoenix sylvestris	
	Psidium gujava	Grasses & Crops
Crops	Tamarindus indicus	Cynodondactylon
Paddy (Oryza sativa)	Vachellia nilotica	Cyperus iria
Maize (Zea mays)	Zizhy phus mauritiana	Digitarias anguinal is
	Madhuca longifolia	
	Terminalia bellirica	
	$Bauhinia\ variegata$	
	Butea monosperma	
	Bombax ceiba	
	A egelemarmelos	
	Azadirachta indica	

Attention was paid towards the roosting species particularly in the evening hours and their dispersal in the morning. The recorded birds were grouped into Resident (R) and Migratory (M), categories. Species Global conservation status was worked out according to the IUCN Red Data

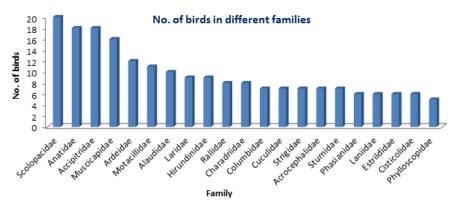


Figure 2. Number of birds in different families.

List, (Birdlife International 2020 (Rahmani 2012; Rahmani et al. 2018). The nomenclature of the avifauna was done by following Praveen et al. (2020).

The species like Short-eared Owl, Curlew Sandpiper, Oriental Pratincole, Lesser Sand Plover recorded for the first time in state, were from this complex.

### 3 Results and Discussion

A total of 293 bird species belonging to 20 Orders and 69 Families were recorded. The species were classified on occurrence status, as 171 resident species (R) and 122 migratory species (M). The species were also categorized according to their habitat as Aquatic (A) 21 species, Near aquatic (NA) (shore birds like waders) 87 Species, and grassland and arboreal (GA) 185 species. As our study was focused on wetlands so it is obvious to get more number of wetland birds rather than terrestrial birds.

The highest number of bird species was belonging to the family Scolopacidae (20), followed by Anatidae (18), Accipitridae (18), Muscicapidae (16), Ardeidae (12), Motacillidae (11), Alaudidae (10), Laridae & Hirundinidae (9 each), Rallidae & Charadriidae (8 each), Columbidae, Cuculidae, Strigidae, Acrocephalidae, and Sturnidae (7 each), Phasianidae, Laniidae, Estrildidae, Cisticolidae (6 each), Phylloscopidae (5), and rest of the families have less than 5 species (Graph1). All the wetlands were surrounded with grasslands and paddy field so the abundance of Passeriformes birds was highest. And also these paddy field and grasslands provide nesting space and shelter for the resident species such as Lesser Whistling duck, Spot-billed duck, Ashy Prinia, Indian Silver-bill, Scaly breasted Munia, Red Avadavat etc.

Table 3. The Birdlife International- IUCN categories of the species recorded at the study area IUCN Red Data List (2020).

Category	Species recorded
Endangered (EN)	Egyptian Vulture Neophron percnopterus
Vulnerable (VU)	Common Pochard Aythya ferina
	Indian Spotted Eagle Clanga hastate
	Greater Spotted Eagle Aquila clanga
	River Tern Sterna aurantia
Near Threatened $(NT)$	Ferruginous Duck Aythya nyroca
	Painted Stork Mycteria leucocephala
	Oriental Darter Anhinga melanogaster
	Eurasian Curlew Numenius arquata
	Black-tailed Godwit Limosa limosa
	Pallid Harrier Circus macrourus
Least Concern	282 species as in Annexure-1

Threatened species as categorized by Birdlife International- IUCN (2020) found in the wetland complex are as per Table 3.

**Passage migrant species**: The arrival of passage migrant species observed during September-November, and departure in April-May is as per Table 4.

Table 4. Passerby species observed during September-November and departure in April-May

Category	No. of species	Species
Predators	04	Osprey Pandion haliaetus, Indian Spotted
		Eagle Clanga hastata, Greater Spotted Eagle
		Clanga clanga, Short Eared Owl Asio flam-
		meus.
Waders & Shorebirds	10	Eurasian Spoonbill ( <i>Platalea leucorodia</i> ) in
		2015, Ruff <i>Philomachus pugnax</i> , Black-tailed
		Godwit Limosa limosa, Whimbrel Numenius
		phaeopus, Eurasian Curlew Numenius ar-
		quata, Pacific Golden Plover Pluvialis fulva, Curlew Sandpiper Calidiris ferruginea, Ori-
		ental Pratincole Glareola maldivarum, Dun-
		lin Ereunetes alpina, Ballions Crake Zapor-
		nia pusilla.
Gulls & Terns	08	Gull-billed Tern <i>Gelochelidon nilotica</i> ,
		Caspian Gull Hydroprogne caspia, River
		Tern Sterna aurantia, Whiskered Tern
		Chlidonias hybrida, Heuglin's Gull Larus
		fuscus heuglini Brown-headed Gull Chroico-
		$cephalus \ brunnicaphalus, \ Black-headed \ Gull$
		$Chroicocephalus \ ridibundus, \ Little \ Tern$
		Sternula albifrons.
Storks & Cranes	02	Black Stork <i>Ciconia nigra</i> 28 individuals in
		2021, Demoiselle's Crane <i>Grus virgo</i> more
		than 200 (Old record).

Place of nesting	Species
Trees, bushes, grass, sur-	Small Pratincole Glareola lactea, Little Ringed Plover
roundings of wetlands and in	Charadrius dubius, Mottled Wood Owl Strix ocellata, Asian
cross country	Openbill Anastomus oscitans, Indian Courser Cursorius coro-
	mandelicus, Eurasian Eagle Owl Bubo bubo

Table 5. Important Nesting species

Table 6. Significant species recorded

Species	Remark
Short-eared Owl Asio flam-	Found at locations Bangoli dam; village Gadsa, Jara, Amodi,
meus	maximum count 31 individuals at Gadsa in March 2020 where
	regularly 10-18 individuals were seen. (Bharos et al 2019).
Black Stork Ciconia nigra	Found at Bangoli dam, Nahardiya tank, Kosrangi, maximum
	count 26 individuals at Nahardiya in 2021.
Demoiselle Crane Grus virgo	Bangoli dam, maximum count more than 200 at Bangoli in 1984
	(Bharos 2018).
Eurasian Spoonbill Platalea	Naiya tank 2001, 2003(Bharos 2018), Kosrangi 2020 maximum
leu corodia	count 21.
Rosy Starling Pastor roseus	More than 2500 at Kosrani dam in 2018-19.
Whimbrel Numenius phaeo-	Pikridih, Bangoli dam 2019-3 individuals, 2020- solitary.
pus	

Himalayan and sub-Himalayan species Taiyabji (1994) opined that some species whose presence had hitherto been unsuspected in central India like the Plain-backed Mountain Thrush, which is a regular though sparse visitor, would indicate that a thorough survey of the whole north-east of MP (now part of Chhattisgarh) would yield some interesting information on the distribution pattern of Himalayan/sub-Himalayan species are expected to be found here.

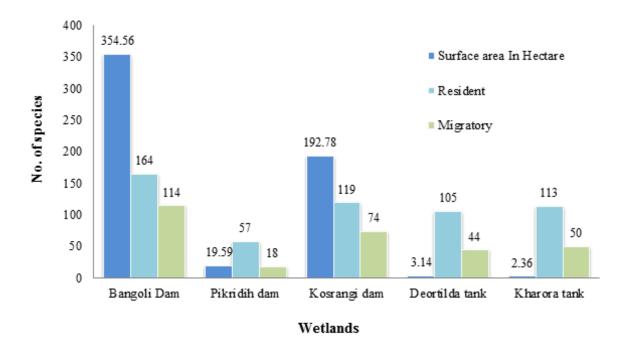
This study recorded in winter, high altitude (c.1200m to c.4000) Himalayan breeders (Baluchistan to Assam) like Common Rosefinch (*Carpodacus erythrinus*); Indian Tree Pipit (*Anthus trivialis*), Osprey (*Pandion haliaetus*).Ballions Crake (*Zapornia pusilla*).

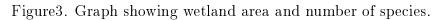
These surrounding small wetlands are also potentially rich for avian diversity and their food base viz. Mand/Naik tank 62 species, Naiya tank 89 species, Budera tank 102 species, Arsena 123 species, Kanki 88 species, and their surroundings have also been incorporated. Recorded number of species was highest in Kosrangi dam i.e. 207 and less in Pikridh dam i.e. 74 but in comparison to a wetland area, the Kharora tank which is the smallest wetland i.e 2.36 ha area but bird diversity is rich in this small wetland 163 species.

During the study roosting sites of some species had been recorded such as Greater Short-toed Lark, Green Bee-eaters, Marsh Harrier, variety of Waders, Kites, Starlings, Egrets, Parakeets, Ducks, etc. There are some major and minor threats were seen during the survey.

#### Hot Spots

The study revealed that the largest number of bird species recorded in Kosrangi dam 207 species followed by Bangoli dam 175 species, Nahardiya tank 163 species, Deortilda 149 species and Pikridih dam 74 species. It suggests that all these dams have emerged as hot spots within the complex, both in term of resident and migratory species.





The available works of the central region are by Chandra and Singh (2004); Ghosh et al. (2008); Sharma et al. (2014); Bharos et al.(2016); Vishwakarma et al. (2018); Bharos et al. (2019 a,b), (Bux and Bharos (2019); Bharos et al. (2020); and several publications on individual species by Bharos et al. (2018a & b, 2019); Bharos and Sahu (2002).State-level 429 species have been documented by Bharos (2017) and 365 species by Naidu et al. (2021).

#### Food Base

The 293 species recorded were categorized according to their feeding guild species-wise (Graph 3), as follows:70 Carnivorous species, 08 Frugivorous species, 09 Granivorous species, 85 Insectivorous species, 02 Nectivorous species, 119 Omnivorous species, 03 Carnivorous/Piscivorous species following Patten (1906), Mukherjee (1969-71. a,b,c,d,e) Ali and Ripley (1987), Perrow et al., 1997, and Jha (2013).

#### Carnivorous

The birds of this category feed on fishes, reptiles, frogs, lizards, small rodents (Ali and Ripley, 1987; Patten, 1906). Asian Openbill Anastomus oscitans was observed feeding on Pila globosa and Lamellidensmarginalis. also on Mollusca, fishes, crabs, rodents, amphibians, reptiles, etc.. Osprey feeding on fishes, Marsh Harrier preying on smaller aquatic birds), and Common Kestrel on frogs and lizards; Frugivorous: Yellow-footed Green Pigeon, Red-vented Bulbul, Rose-ringed Parakeets, recorded. feeding mainly on Ficus species; Granivorous: These include Scaly-breasted Munia, Indian Silverbill, Red Avadavat, House Sparrows, Baya Weaver which were recorded feeding on grains; Insectivorous: Insects, larvae of insects, weevils, minor crabs, mollusk, etc. Birds like Bee-eater were observed feeding on Odonata. Flycatchers, larks, pipits, were observed feeding on Diptera, Hemiptera, Stoneflies, Odonata, etc.; Nectivorous: These are birds that fed on flower, Sunbirds were most commonly found feeding on flower Nectar , mynas and starlings were observed in the omnivorous guild including ducks that feed on aquatic plants/parts of plants like Vallisneria spiralis

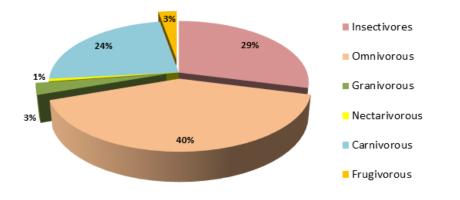


Figure 4. Percentage of bird species on the basis of their feeding guilds.

L., Typha angustifolia L, Eleocharis dulcis Trin. ex, Nymphaea pubescens Wild. Nymphaea rubra Roxb. Najas marina L. ,Najas indica (Willd.) Cham., Pota.

### 4 Conclusion

The study of this previously undocumented area of 20 km2 complex, revealed the presence of 293 species belonging to 20 orders and 69 families comprising of 171 residents and 122 migratory species. Out of these 11 species were globally threatened: one Endangered, three Vulnerable, and six near threatened as per IUCN- Birdlife International Red data List (2020). The dominant families were Anatidae-18 species (6.14%), Accipitridae-18 species (6.14%), Muscicapidae-16 species (5.46%), Ardeidae-12 species (4.10%), Alaudidae-10 species (3.41%), and Hirundinidae-9 species (3.07%). Himalayan and sub-Himalayan species -4 Nos, passage migrants-24 Nos, nesting and important species, and feeding guilds were all recorded (Tables 2,3,4,5).

Bangoli and other large wetlands are threatened by hunters and fishermen. The stone quarries, crushers, and the blasting sound are a major threat The surrounding land is having laterite soil where Acacia trees are dominant which provides shelter and nesting habitat to the bird species but the regular cutting of trees is posing a threat to the bird species richness and stability. This study creates baseline data for more intensive ornithological studies in the future.

The major finding of the study was a good number of species found including threatened species. The species like Short-eared Owl, Demoiselle Crane, Whimbrel, Curlew Sandpiper, Gullbilled Tern ,Caspian Gull were important Compared with previous studies four species namely Short-eared Owl, Curlew Sandpiper, Oriental Pratincole, Lesser Sand Plover were recorded from this complex, for the first time from the Chhattisgarh.

With this the complex was rated by us as a rich in avifauna, with prospects of additions in future. Our baseline work would be of much help for furtherance of the ornithological studies.

## Conflict of interests

The authors declare that they have no conflict of interest.

# Acknowledgements

We are thankful to the members of the Chhattisgarh Wildlife Society for sharing their observations and time to time field assistance. We would like to thank the anonymous reviewers for their valuable comments and suggestions to improve the quality of the paper.

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S. N o.	Order	Family	English Name	Scientific Name	Resi den t Stat us	IU CN St at us	Food Habits	Ha bit at
			Fulvus Whistling	Dendrocygna			Omnivorou	
1			Duck	bicolor	R	LC	S	А
2			Lesser Whistling	Dendrocygna			Omnivorou	
2			Duck Dar hand ad	javanica	R	LC	S	A
3			Bar-headed	Ancorindique	54	10	Omnivorou	^
3			Goose	Anser indicus	M	LC	s Omnivorou	A
4			Greylag Goose	Anser anser	М	LC	s	А
				Tadorna			Omnivorou	
5			Ruddy Shelduck	ferruginea	м	LC	s	А
-			Red-crested	Jennaginea			Omnivorou	
6			Pochard	Netta rufina	R	LC	S	А
			Common	,			Omnivorou	
7			Pochard	Aythya ferina	М	VU	S	А
			Ferruginous				Omnivorou	
8			Duck,	Aythya nyroca	М	NT	S	Α
							Omnivorou	
9	Anserifo	Anatida	Tufted Duck	Aythya fuligula	М	LC	S	Α
	rmes	e		Spatula			Omnivorou	
10	111100	C	Garganey	querquedula	М	LC	S	А
			Northern	Spatula			Omnivorou	
11			Shoveler	clypeata	М	LC	S	A
				Mareca			Omnivorou	
12			Gadwall	strepera	М	LC	S .	A
12				Mareca	5.4		Omnivorou	•
13			Eurasian Wigeon	penelope	М	LC	S	A
14			Indian Spot- billed Duck	Anas poecilorhyncha	R	LC	Omnivorou	А
14				роеспоттупски	n	LC	s Omnivorou	A
15			Northern Pintail	Anas acuta	м	LC	S	А
15			Northern mitan	Ands deata	141	10	Omnivorou	~
16			Common Teal	Anas crecca	м	LC	S	А
				Sarkidiornis			Omnivorou	
17			Comb Duck	melanotos	R	LC	s	А
				Nettapus				
				coromandelian			Omnivorou	
18			Cotton Teal	us	R	LC	S	А
				Coturnix			Omnivorou	
1			Common Quail	coturnix	R	LC	S	GA
	Gallifor	Phasiani		Coturnix			Omnivorou	
20	mes	dae	Rain Quail	coromandelica	R	LC	S	GA
			Blue-breasted	Synoicus			Omnivorou	
21			Quail	chinensis	М	LC	S	GA

### Annexure 1 : Bird checklist of Bangoli Wetland Complex

			Jungle Bush	Perdicula			Omnivorou	
22			Quail	asiatica	R	LC	S	GA
			Barred Button	Turnix			Omnivorou	
23			Quail	Suscitator	R	LC	S	GA
			-	Francolinus			Omnivorou	
24			Grey Francolin	pondicerianus	R	LC	S	GA
				Tachybaptus			Omnivorou	
25	Podicip	Podicipe	Little Grebe	ruficollis	R	LC	S	А
	ediform	didae	Great Crested	Podiceps			Omnivorou	
26	es		Grebe	cristatus	М	LC	S	А
							Granivorou	
27			Rock Pigeon	Columba livia	R	LC	S	GA
			Eurasian	Streptopelia			Granivorou	
28			Collared Dove	decaocto	R	LC	S	GA
			Red Collared	Streptopelia			Granivorou	
29			Dove	tranquebarica	R	LC	S	GA
				Streptopelia			Granivorou	
30	Columbi	Columbi	Spotted Dove	chinensis	R	LC	S	GA
	formes	dae	•	Streptopelia			Granivorou	
31			Laughing Dove	senegalensis	R	LC	S	GA
			Orange-breasted	Treron				
32			Green Pigeon	bicinctus	R	LC	Frugivorous	GA
			_	Treron				
			Yellow-legged	phoenicopteru				
33			Green Pigeon	s	R	LC	Frugivorous	GA
	Pteroclif	Pterocli	Chestnut-bellied	Pterocles			Omnivorou	
34	ormes	dae	Sandgrouse	exustus	R	LC	S	GA
			-	Caprimulgus			Insectivoro	
35			Grey Nightjar	jotaka	R	LC	us	GA
		Caprimu		Caprimulgus			Insectivoro	
36	Constant	lgidae	Jungle Nightjar	indicus	R	LC	us	GA
	Caprimu			Caprimulgus			Insectivoro	
37	lgiforme		Indian Nightjar	asiaticus	R	LC	us	GA
	S			Cypsiurus			Insectivoro	
38		Apodida	Asian Palm Swift	balasiensis	R	LC	us	GA
		е	Indian House				Insectivoro	
39			Swift	Apus affinis	R	LC	us	GA
				Centropus			Omnivorou	
40			Greater Coucal	sinensis	R	LC	S	GA
				Clamator			Omnivorou	
41			Pied Cuckoo	jacobinus	М	LC	S	GA
				Eudynamys			Omnivorou	
42			Asian Koel	scolopaceus	R	LC	S	GA
	Cuculifo	Cuculida		Cacomantis			Omnivorou	
43	rmes	е	Plaintive Cuckoo	merulinus	R	LC	S	GA
			Common Hawk	Hierococcyx			Omnivorou	
44			Cuckoo	varius	R	LC	S	GA
			Gray-bellied	Cacoamantis			Omnivorou	
45			cuckoo	posserinus	R	LC	S	GA
			Common	Cuculus			Omnivorou	
46			Cuckoo	canorus	R	LC	S	GA

			Slaty-legged	Rallina		ĺ	Omnivorou	
47			Crake	eurizonoides	R	LC	S	NA
			Ruddy-breasted				Omnivorou	
48			Crake	Zapornia fusca	R	LC	S	NA
							Omnivorou	
49			Brown Crake	Zapornia akool	R	LC	S	NA
				Zapornia			Omnivorou	
50		- 11 I	Baillon's Crake	pusilla	R	LC	S	NA
	Gruifor	Rallidae	White-breasted	Amaurornis			Omnivorou	
51	mes		Waterhen	phoenicurus	R	LC	S	NA
			Purple	Porphyrio			Omnivorou	
52			Swamphen	porphyrio	R	LC	S	NA
			Common	Gallinula			Omnivorou	
53			Moorhen	chloropus	R	LC	S	NA
							Omnivorou	
54			Common Coot	Fulica atra	М	LC	S	Α
		Curridae	Demoiselle				Carnivorou	
55		Gruidae	Crane	Grus virgo	М	LC	S	NA
				Mycteria			Carnivorou	
56			Painted Stork	leucocephala	R	NT	S	NA
				Anastomus			Carnivorou	
57	Ciconiif	Ciconiid	Asian Openbill	oscitans	R	LC	S	NA
	ormes	ae					Carnivorou	
58			Black Stork	Ciconia nigra	М	LC	S	NA
			Woolly-necked	Ciconia			Carnivorou	
59			Stork	episcopus	R	LC	S	NA
				Ixobrychus			Carnivorou	
60			Yellow Bittern	sinensis	R	LC	S	NA
			Cinnamon	Ixobrychus			Carnivorou	
61			Bittern	cinnamomeus	R	LC	S	NA
				Ixobrychus			Carnivorou	
62			Black Bittern	flavicollis	R	LC	S	NA
			Black-crowned	Nycticorax			Carnivorou	
63			Night Heron	nycticorax	R	LC	S	NA
				Butorides			Carnivorou	
64			Striated Heron	striata	R	LC	S	NA
	Threskio		Indian Pond				Carnivorou	
65	rnithida	Ardeida	Heron	Ardeola grayii	R	LC	S	NA
	e	е					Carnivorou	
66	e		Cattle Egret	Bubulcus ibis	R	LC	S	NA
							Carnivorou	
67			Grey Heron	Ardea cinerea	R	LC	S	NA
				Ardea			Carnivorou	]
68			Purple Heron	purpurea	R	LC	S	NA
							Carnivorou	
69			Great Egret	Ardea alba	R	LC	S	NA
			Intermediate	Ardea			Carnivorou	
70			Egret	intermedia	R	LC	S	NA
				Egretta			Carnivorou	]
71			Little Egret	garzetta	R	LC	S	NA

				Threskiornis				
			Black-headed	melanocephalu			Carnivorou	
72		Threskio	Ibis	s	R	LC	S	NA
		rnithida	Eurasian	Platalea			Carnivorou	
73		е	Spoonbill	leucorodia	М	LC	S	NA
				Pseudibis			Carnivorou	
74			Indian Black Ibis	papillosa	R	LC	S	NA
				Microcarbo			Carnivorou	
75		Phalacro	Little Cormorant	niger	R	LC	S	NA
		coracida	Great	Phalacrocorax			Carnivorou	
76	Suliform	e	Cormorant	carbo	R	LC	S	NA
	es	C	Indian	Phalacrocorax			Carnivorou	
77			Cormorant	fuscicollis	R	LC	S	NA
		Anhingi		Anhinga			Carnivorou	
78		dae	Oriental Darter	melanogaster	М	NT	S	NA
		Burhinid	Indian Thick-	Burhinus			Insectivoro	
79		ae	knee	indicus	R	LC	us	GA
		Recurvir	Black-winged	Himantopus			Omnivorou	
80		ostridae	Stilt	himantopus	R	LC	S	NA
				Pluvialis			Insectivoro	
81			Grey Plover	squatarola	М	LC	us	NA
			Eurasian Golden	Pluvialis			Insectivoro	
82			Plover	apricaria	М	LC	us	NA
			Pacific Golden				Insectivoro	
83			Plover	Pluvialis fulva	М	LC	us	NA
			Little Ringed	Charadrius			Omnivorou	
84		Charadri	Plover	dubius	R	LC	S	NA
		idae		Charadrius			Omnivorou	
85			Kentish Plover	alexandrinus	М	LC	S	NA
			Lesser Sand	Charadrius			Omnivorou	
86			Plover	mongolus	М	LC	S	NA
			Yellow-wattled	Vanellus	_		Omnivorou	
87	Charadr		Lapwing	malabaricus	R	LC	S	NA
	iiformes		Red-wattled	Vanellus	-		Omnivorou	
88		<b>.</b>	Lapwing	indicus	R	LC	S .	NA
00		Rostratu	Greater Painted-	Rostratula			Omnivorou	
89		lidae	snipe	benghalensis	R	LC	S	NA
00		1	Pheasant-tailed	Hydrophasianu	<b>_</b>		Omnivorou	N1.0
90		Jacanida	Jacana Decena	s chirurgus	R	LC	S	NA
01		е	Bronze-winged	Metopidius	Р		Omnivorou	
91			Jacana	indicus	R	LC	S	NA
92			Whimbrel	Numenius	N /	LC	Insectivoro	NLA
92			whimbrei	phaeopus	М	LC	US	NA
0.2			Eurasian Curlew	Numenius	Ν4	NT	Omnivorou	NA
93		Scalara		arquata Limosa	М	111	S	INA
04		Scolopa	Bar-tailed	Limosa	Ν.4		Omnivorou	NIA
94		cidae	Godwit Black tailed	lapponica	М	LC	S	NA
95			Black-tailed Godwit	Limosa limosa	М	NT	Omnivorou	NA
95			Gouwit		IVI		s Omnivorou	INA
96			Ruff	Calidris pugnax	М	LC		NA
90			NULL	culiuris puyllux	IVI	LU	S	INA

		Curlew	Calidris			Omnivorou	
97		Sandpiper	ferruginea	М	LC	S	NA
		Temminck's	Calidris			Omnivorou	
98		Stint	temminckii	М	LC	S	NA
						Omnivorou	
99		Dunlin	Calidris alpina	М	LC	S	NA
10						Omnivorou	
0		Little Stint	Calidris minuta	М	LC	S	NA
10			Gallinago			Omnivorou	
1		Pintail Snipe	stenura	М	LC	s	NA
10			Gallinago			Omnivorou	1.07.
2		Common Snipe	gallinago	М	LC	S	NA
10		common snipe	guinnugo	141	10	Omnivorou	
3		Torok Sandninor	Xenus cinereus	М	LC		NA
		Terek Sandpiper		IVI		S	NA
10		Common	Actitis			Omnivorou	
4		Sandpiper	hypoleucos	R	LC	S	NA
10			Tringa			Omnivorou	
5		Green Sandpiper	ochropus	М	LC	S	NA
10		Spotted	Tringa			Omnivorou	
6		Redshank	erythropus	Μ	LC	S	NA
10		Common	Tringa			Omnivorou	
7		Greenshank	nebularia	Μ	LC	S	NA
10		Common				Omnivorou	
8		Redshank	Tringa totanus	М	LC	S	NA
10						Omnivorou	
9		Wood Sandpiper	Tringa glareola	М	LC	S	NA
11		Marsh	Tringa			Omnivorou	
0		Sandpiper	stagnatilis	М	LC	S	NA
11		Red-necked	Phalaropus			Omnivorou	
1		Phalarope	lobatus	М	LC	s	NA
11		Small	Turnix	141	10	Omnivorou	117
2		Buttonquail	sylvaticus	R	LC		NA
-	Turnicid		sylvaticus	n	LC	S	NA
11	Turnicid	Yellow-legged	Turniy tanli	P	10	Omnivorou	NLA
3	ae	Buttonquail	Turnix tanki	R	LC	S	NA
11		Barred	Turnix	-		Omnivorou	
4		Buttonquail	suscitator	R	LC	S	NA
			Cursorius				
11			coromandelicu			Insectivoro	
5	Glareoli	Indian Courser	S	R	LC	us	NA
11	dae	Oriental	Glareola			Insectivoro	
6	ude	Pratincole	maldivarum	М	LC	us	NA
11						Insectivoro	
7		Little Pratincole	Glareola lactea	R	LC	us	NA
			Chroicocephalu			Carnivorou	
11		Brown-headed	s			s/	
8		Gull	brunnicephalus	М	LC	Piscivorous	NA
-	Laridae				-	Carnivorou	
11		Black-headed	Chroicocephalu			s/	
9		Gull	s ridibundus	М	LC	9, Piscivorous	NA
5		Sui	5 Haibanau5	141		1 1301001003	

							Carnivorou	
12				Larus			s/	
0			Herring Gull	argentatus	М	LC	Piscivorous	NA
							Carnivorou	
12				Larus			s/	
1			Caspian Gull	cachinnans	М	LC	Piscivorous	NA
							Carnivorou	
12				Sternula			s/	
2			Little Tern	albifrons	М	LC	Piscivorous	NA
							Carnivorou	
12				Gelochelidon			s/	
3			Gull-billed Tern	nilotica	М	LC	Piscivorous	NA
							Carnivorou	
12				Chlidonias			s/	
4			Whiskered Tern	hybrida	М	LC	Piscivorous	NA
12				Sterna			Carnivorou	
5			River Tern	aurantia	М	VU	S	NA
							Carnivorou	
12			Black-bellied	Sterna			s/	
6			Tern	acuticauda	М	LC	Piscivorous	NA
12		Pandioni		Pandion			Carnivorou	
7		dae	Osprey	haliaetus	М	LC	S	NA
12			Black-winged	Elanus			Carnivorou	
8			Kite	caeruleus	R	LC	S	GA
12			Oriental Honey	Pernis			Carnivorou	
9			Buzzard	ptilorhynchus	М	LC	S	GA
13				Neophron				
0			Egyptian Vulture	percnopterus	R	EN	Scavenger	GA
13			Crested Serpent	Spilornis			Carnivorou	
1			Eagle	cheela	R	LC	S	GA
13			Short-toed	Circaetus			Carnivorou	
2			Snake Eagle	gallicus	R	LC	S	GA
13			White-rumped	Gyps				
3			Vulture	bengalensis	R	LC	Scavenger	GA
13	Accipitri		Indian Spotted				Carnivorou	
4	formes	Accipitri	Eagle	Clanga hastata	М	VU	S	GA
13		dae	Greater Spotted				Carnivorou	
5			Eagle	Clanga clanga	М	VU	S	GA
13				Aquila			Carnivorou	
6			Steppe Eagle	nipalensis	М	LC	S	GA
13				Hieraaetus			Carnivorou	
7			Booted Eagle	pennatus o:	М	LC	S	GA
13			Western Marsh	Circus			Carnivorou	
8			Harrier	aeruginosus	Μ	LC	S	GA
13			Dollid Hamist	Circus	N /	<b>N</b> 1	Carnivorou	<b>C</b> ,
9			Pallid Harrier	macrourus	М	NT	S	GA
14			Diadularity	Circus			Carnivorou	<b>~</b>
0			Pied Harrier	melanoleucos	М	LC	S	GA
14			Montagu's	Circus	N /		Carnivorou	<b>C</b>
1			Harrier	pygargus	М	LC	S	GA

14				Accipiter			Carnivorou	
2			Shikra	badius	R	LC	S	GA
14			Eurasian				Carnivorou	
3			Sparrowhawk	Accipiter nisus	М	LC	S	GA
14							Omnivorou	
4			Black Kite	Milvus migrans	R	LC	S	GA
14			White-eyed				Carnivorou	
5			, Buzzard	Butastur teesa	R	LC	S	GA
14			Common Barn				Carnivorou	
6			Owl	Tyto alba	R	LC	S	GA
14							Carnivorou	
7			Spotted Owlet	Athene brama	R	LC	S	GA
14							Carnivorou	
8			Short-eared Owl	Asio flammeus	М	LC	S	GA
14	Strigifor		Mottled Wood				Carnivorou	
9	mes	Strigidae	Owl	Strix ocellata	R	LC	S	GA
15			Eurasian Eagle				Carnivorou	
0			Owl	Bubo bubo	R	LC	S	GA
15				Bubo			Carnivorou	
1			Indian Eagle Owl	bengalensis	R	LC	S	GA
15				Ketupa			Carnivorou	
2			Brown Fish Owl	zeylonensis	R	LC	S	GA
15		Buceroti	Indian Grey	Ocyceros			Omnivorou	
3	Buceroti	dae	Hornbill	birostris	R	LC	S	GA
15	formes	Upupida	Common				Insectivoro	
4		e	Ноорое	Upupa epops	R	LC	us	GA
15			Eurasian				Insectivoro	
5			Wryneck	Jynx torquilla	М	LC	us	GA
			Lesser Golden-					
15			backed	Dinopium			Omnivorou	
6			Woodpecker	benghalense	R	LC	S	GA
		Picidae	Brown-capped					
15	Piciform		Pygmy	Dendrocopos			Omnivorou	
7	es		Woodpecker	nanus	R	LC	S	GA
			Grey-capped					
15			Pygmy	Dendrocopos			Omnivorou	
8			Woodpecker	canicapillus	R	LC	S	GA
		Magalai		Psilopogon				
15		Megalai midae	Coppersmith	haemacephalu				
9		muae	Barbet	5	R	LC	Frugivorous	GA
16			Blue-bearded	Nyctyornis			Insectivoro	
0			Bee-eater	athertoni	R	LC	us	GA
16		Meropid		Merops			Insectivoro	
1		ae	Green Bee-eater	orientalis	R	LC	us	GA
16	Coraciif		Blue-tailed Bee-	Merops			Insectivoro	
2	ormes		eater	philippinus	R	LC	us	GA
16		Coraciid		Coracias			Carnivorou	
3		ae	Indian Roller	benghalensis	R	LC	S	GA
16		Alcedini	Common				Carnivorou	
4		dae	Kingfisher	Alcedo atthis	R	LC	S	NA

16							Carnivorou	
5			Pied Kingfisher	Ceryle rudis	R	LC	S	NA
16			White-throated	, Halcyon			Carnivorou	
6			Kingfisher	smyrnensis	R	LC	S	NA
16			-	Falco			Carnivorou	
7			Common Kestrel	tinnunculus	М	LC	S	GA
16	Falconif	Falconid	Red-necked	Falco			Carnivorou	
8	ormes	ae	Falcon	chicquera	М	LC	S	GA
16				Falco			Carnivorou	
9			Peregrine Falcon	peregrinus	R	LC	S	GA
17			Plum-headed	Psittacula				
0			Parakeet	cyanocephala	R	LC	Frugivorous	GA
17	Psittacif	Psittacul	Alexandrine	Psittacula				
1	ormes	idae	Parakeet	eupatria	R	LC	Frugivorous	GA
17			Rose-ringed	Psittacula				
2			Parakeet	krameri	R	LC	Frugivorous	GA
17		Pittidae		Pitta			Insectivoro	
3		Pittidae	Indian Pitta	brachyura	М	LC	us	GA
17				Pericrocotus			Insectivoro	
4			Small Minivet	cinnamomeus	R	LC	us	GA
17		Campep	Large	Coracina				
5		hagidae	Cuckooshrike	javensis	R	LC	Frugivorous	GA
17			Black-headed	Lalage			Insectivoro	
6			Cuckooshrike	melanoptera	R	LC	us	GA
17		Oriolida	Indian Golden				Omnivorou	
7		е	Oriole	Oriolus kundoo	R	LC	S	GA
17			Large	Tephrodornis			Insectivoro	
8		Vangida	Woodshrike	virgatus	R	LC	us	GA
17		е	Common	Tephrodornis			Carnivorou	
9			Woodshrike	pondicerianus	R	LC	S	GA
18		Aegithin		Aegithina			Insectivoro	
0		idae	Common lora	tiphia	R	LC	us	GA
18	Passerif			Dicrurus			Insectivoro	
1	ormes	Dicrurid	Black Drongo	macrocercus	R	LC	us	GA
18		ae		Dicrurus			Insectivoro	
2			Ashy Drongo	leucophaeus	R	LC	us	GA
18		Rhipidur	White-browed	Rhipidura			Insectivoro	
3		idae	Fantail	aureola	R	LC	us	GA
18				Lanius			Carnivorou	
4			Brown Shrike	cristatus	М	LC	S	GA
18			Red-backed				Carnivorou	
5			Shrike	Lanius collurio	М	LC	S	GA
18				Lanius			Carnivorou	
6		Laniidae	Isabelline Shrike	isabellinus	М	LC	S	GA
18		Lannuae	Bay-backed				Carnivorou	7
7			Shrike	Lanius vittatus	R	LC	S	GA
18			Long-tailed				Carnivorou	
8			Shrike	Lanius schach	R	LC	S	GA
18			Great Grey	Lanius			Carnivorou	
9			Shrike	excubitor	R	LC	S	GA

1     Corvida     House Crow     splendens     R     LC     S     GA       19     e     Large-billed     Corvus     Corvus     Corvus     Corvus     Corvus     Corvus     GA       19     Black-naped     Hypothymis     R     LC     s     GA       19     Indian Paradise-     Terpsiphone     Insectivoro     GA       19     Indian Paradise-     Terpsiphone     Insectivoro     GA       19     Filowerpecker     Dicaeum agile     R     LC     us     GA       19     Filowerpecker     Dicaeum agile     R     LC     s     GA       19     Sunbird     zeylonica     R     LC     s     GA       19     Sunbird     astiticus     R     LC     s     GA       19     Polceida     Purple Sunbird     astiticus     R     LC     s     GA       19     Polceida     Purple Sunbird     astiticus	19	I	I		Corvus		I	Omnivorou	
19     e     Large-billed     Corvus     R     LC     s     GA       19     Monarc     Monarch     azurea     R     LC     us     GA       19     Monarch     azurea     R     LC     us     GA       19     Monarch     azurea     R     LC     us     GA       19     Indian Paradise-     Terpsiphone     Insectivoro     GA       19     Thick-billed     Paradisi     R     LC     us     GA       19     Dicaeida     Plae-billed     erythrorhyncho     Omnivorou     GA       19     Purple-Tupped     Leptocoma     R     LC     s     GA       19     Seidae     Leafbird     jerdoni     R     LC     s     GA       19     Seidae     Ploceida     Porceus     Omnivorou     GA       20     R     Red Munia     amadava     Omnivorou     GA       20     Scaly-breasted     Lo			Corvida	House Crow		R	IC		GA
1         Crow         macrorhynchos         R         LC         s         GA           19         Black-naped         Hypothymis         Insectivoro         Insectivoro         Insectivoro         GA           19         Indian Paradise-         Terpsiphone         R         LC         us         GA           19         Indian Paradise-         Terpsiphone         R         LC         us         GA           19         Thick-billed         R         LC         us         GA           19         Dicaela         Flowerpecker         Dicaeum agile         R         LC         s         GA           19         Thick-billed         erythrorhyncho         R         LC         s         GA           19         Nectari         Sunbird         Zeylorica         R         LC         s         GA           19         Subird         Zeylorica         R         LC         s         GA           19         Seidae         Leafbird         jerdoni         R         LC         s         GA           19         Seidae         Leafbird         jerdoni         R         LC         s         GA           20	-								0/1
19     Nonarch     aurea     R     LC     us     GA       19     Indian Paradise- flycatcher     paradisi     R     LC     us     GA       19     Indian Paradise- flycatcher     paradisi     R     LC     us     GA       19     Dicaeida e     Thick-billed     R     LC     s     GA       19     Dicaeida e     Dicaeum e pale-billed     R     LC     s     GA       19     Flowerpecker     Dicaeum erythrorhynch     R     LC     s     GA       19     Rectarin     Sunbird     zeylonica     R     LC     s     GA       19     Ridae     Purple-rumped     Leptocoma     R     LC     s     GA       19     G     Sunbird     zeylonica     R     LC     s     GA       19     Ridae     Chioropsis     Notatrivoru     GA     S     GA       19     Baya Weaver     philippinus     R     LC     s     GA       20     Red Munia     amandava     R     LC     s     GA       20     Amandava     R     LC     s     GA       20     Scaly-breasted     Lonchura     Omnivorou     Monivorou <tr< td=""><td></td><td></td><td>C</td><td>•</td><td></td><td>R</td><td>IC</td><td></td><td>G۵</td></tr<>			C	•		R	IC		G۵
2     Monarch     azurea     R     LC     us     GA       19     Indian Paradise-     Terpsiphone     Insectivoro     Insectivoro     Insectivoro       19     Thick-billed     Terpsiphone     R     LC     us     GA       19     Dicaeida     Flowerpecker     Dicaeum     R     LC     s     GA       19     Pale-billed     erythrarhyncho     Omnivorou     Flowerpecker     s     R     LC     s     GA       19     Sunbird     zeytonica     R     LC     s     GA       19     Sunbird     zeytonica     R     LC     s     GA       19     Sunbird     zeytonica     R     LC     s     GA       19     Pale-billed     pirdon's     Chloropis     R     LC     s     GA       19     Sunbird     zeytonica     R     LC     s     GA       19     Seidae     Leafbird     jerdoni     R     LC     s     GA       10     Baya Weaver     philippins     R     LC     s     GA       20     Estrididi     Munia     amadava     R     LC     s     GA       20     Estrididi     Munia					,	T.	10	-	07
19     indian Paradise- flycatcher     Terpsiphone paradisi     R     LC     us     GA       19     Thick-billed     R     LC     s     GA       19     Dicaeida e     Thick-billed     R     LC     s     GA       19     Dicaeida e     Pale-billed     erythrorhyncho     Omnivorou     F       19     Flowerpecker     S     R     LC     s     GA       19     Flowerpecker     S     R     LC     s     GA       19     Ructarin     Sunbird     zeytonica     R     LC     s     GA       19     Nectarin     Sunbird     asiaticus     R     LC     s     GA       19     Seidae     Leafbird     jerdoni     R     LC     s     GA       19     Seidae     Leafbird     jerdoni     R     LC     s     GA       19     Ploceida     Ploceus     Omnivorou     Miter-runped     Omnivorou     GA       20     Red Munia     amandava     R     LC     s     GA       20     Estrildid     ae     Scaly-breasted     Lonchura     Omnivorou     GA       20     Estrildid     ae     Scaly-breasted     Lonchura <td></td> <td></td> <td>Monarc</td> <td>•</td> <td></td> <td>R</td> <td>IC</td> <td></td> <td>G٨</td>			Monarc	•		R	IC		G٨
3     introduction     introduction     R     LC     us     GA       19     Dicaeida     Flowerpecker     Dicaeum agile     R     LC     s     GA       19     Picebilled     erythrorhyncho     R     LC     s     GA       19     Pale-billed     erythrorhyncho     R     LC     s     GA       19     Nectarin     Sunbird     zeylonica     R     LC     s     GA       19     Nectarin     Sunbird     zeylonica     R     LC     s     GA       19     Nectarino     Sunbird     zeylonica     R     LC     s     GA       19     Purple-rumped     Leptocoma     R     LC     s     GA       19     Seidae     Leafbird     jerdoni's     Chloropsis     R     LC     s     GA       20     Ploceida     Ploceus     Omnivorou     Manadava     R     C     s     GA       20     Estrildid     Munia     amandava     R     LC     s     GA       20     Estrildid     Munia     striata     R     LC     s     GA       20     Estrildid     Munia     striata     R     LC     s     GA </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10</td> <td></td> <td>07</td>							10		07
19       4       Dicaeida       Flowerpecker       Dicaeum agile       R       LC       s       GA         19       Dicaeida       e       Dicaeum       R       LC       s       GA         19       Pale-billed       erythrothyncho       Omnivorou       S       GA         19       Nectarin       Sunbird       zeylonica       R       LC       s       GA         19       Sunbird       zeylonica       R       LC       s       GA         19       Sunbird       zeylonica       R       LC       s       GA         19       Seidae       Leafbird       jerdoni       R       LC       us       GA         19       Seidae       Leafbird       jerdoni       R       LC       us       GA         20       Seidae       Baya Weaver       philippinus       R       LC       s       GA         20       Indian Silverbill       malabarica       R       LC       s       GA         20       Ket Munia       striata       R       LC       s       GA         20       Scaly-breasted       Lonchura       Omnivorou       Munia       Munia <td< td=""><td></td><td></td><td>muae</td><td></td><td></td><td>R</td><td>IC</td><td></td><td>G۵</td></td<>			muae			R	IC		G۵
4         Dicaeida e         Flowerpecker Pale-billed Flowerpecker         Dicaeum erythrorhyncho         R         LC         s         GA           19         Flowerpecker         s         R         LC         s         GA           19         Flowerpecker         s         R         LC         s         GA           19         Purple-rumped         Leptocoma         R         LC         s         GA           19         Purple-sunbird         asiaticus         R         LC         s         GA           19         Seidae         Ledhord         gerdon's         Chloropsis         R         LC         s         GA           19         seidae         Ledhord         gerdon's         Chloropsis         R         LC         s         GA           20         Ploceida         Ploceus         Manadava         R         LC         s         GA           20         Estrilidi         malabarica         R         LC         s         GA           20         Estrilidi         ae         Scaly-breasted         Lonchura         R         C         s         GA           20         Back-throated         Lonchura         <					puruuisi		10		07
19     Dicaeida     Dicaeum     Omnivorou       19     Flowerpecker     R     LC     S       19     Nectarin     Sunbird     Zeylonica     R     LC     S       19     Purple Sunbird     asiaticus     R     LC     S     GA       19     Seidae     Leafbird     jerdoni     R     LC     s     GA       20     e     Baya Weaver     philippinus     R     LC     s     GA       20     e     Baya Weaver     philippinus     R     LC     s     GA       20     Indian Silverbill     malabarica     R     LC     s     GA       20     Munia     stinata     R     LC     s     GA       20     A     Scaly-breasted     Lonchura     Omnivorou     GA       20     A     Scaly-breasted     Lonchura     Omnivorou     GA       20     Munia     malacca     R     LC     s </td <td></td> <td></td> <td></td> <td></td> <td>Dicaeum gaile</td> <td>R</td> <td>IC</td> <td></td> <td>G٨</td>					Dicaeum gaile	R	IC		G٨
19     Pale-billed Flowerpecker     erythrorhyncho Flowerpecker     N     N     Omnivorou R     C     S     GA       19     Nectarin Sunbird     Sunbird     Leptocoma Sunbird     R     LC     S     GA       19     Nectarin Bidae     Sunbird     asiaticus     R     LC     S     GA       19     Chlorop seidae     Leafbird     erdonis     R     LC     S     GA       19     Chlorop seidae     Leafbird     Ploceus     R     LC     s     GA       20     Ploceida     Ploceus     N     C     unnivorou     GA       20     Red Munia     amandava     R     LC     s     GA       20     Red Munia     amandava     R     LC     s     GA       20     Muite-rumped     Lonchura     R     LC     s     GA       20     Muite-rumped     Lonchura     R     LC     s     GA       20     Estrildid     Munia     punctulata     R     LC     s     GA       20     Estrildid     Munia     punctulata     R     LC     s     GA       20     Estrildid     Munia     paser     Omnivorou     Munia     S     <	4		Dicaeida	TIOWEIPECKEI	-	N	10	3	UA.
5     Image: Flowerpecker     s     R     LC     s     GA       19     Nectarini     Purple-rumped     Leptocoma     R     LC     s     GA       19     Image: Subirid     zeylonica     R     LC     s     GA       19     Purple Sunbirid     zeylonica     R     LC     s     GA       19     Purple Sunbirid     asiaticus     R     LC     s     GA       19     Seidae     Leafbirid     jerdoni     R     LC     s     GA       19     Seidae     Leafbirid     jerdoni     R     LC     s     GA       20     Ploceida     Ploceus     Nectarivoru     mandava     R     LC     s     GA       20     e     Baya Weaver     philippinus     R     LC     s     GA       20     Munia     amandava     R     LC     s     GA       20     Keed Munia     amandava     R     LC     s     GA       20     Keed Munia     amandava     R     LC     s     GA       20     Keed Munia     striata     R     LC     s     GA       20     Kestrildid     Munia     striata     R <td>10</td> <td></td> <td>е</td> <td>Pale-hilled</td> <td></td> <td></td> <td></td> <td>Omnivorou</td> <td></td>	10		е	Pale-hilled				Omnivorou	
19       Purple-rumped       Leptocoma       Nectarivoru       Sanbird       zeylonica       R       LC       s       GA         19       Purple Sunbird       zeylonica       R       LC       s       GA         19       Purple Sunbird       zeylonica       R       LC       s       GA         19       Purple Sunbird       zeiticus       R       LC       s       GA         19       Seidae       Leafbird       jerdoni       R       LC       us       GA         19       e       Baya Weaver       philippinus       R       LC       s       GA         20       e       Baya Weaver       philippinus       R       LC       s       GA         20       Red Munia       amandava       R       LC       s       GA         20       Munia       striata       R       LC       s       GA         20       Zestrildid       ae       Scaly-breasted       Lonchura       C       omnivorou       Munia         20       Scaly-breasted       Lonchura       R       LC       s       GA         20       Munia       malacca       R       LC <t< td=""><td></td><td></td><td></td><td></td><td></td><td>D</td><td>10</td><td></td><td>G٨</td></t<>						D	10		G٨
6 19 19 7Nectarin iidaeSunbirdzeylonicaRLCsGA19 7iidaeCinnyrisRLCsGA19 8SeidaeUrple SunbirdasiaticusRLCsGA19 9seidaeLeafbirdjerdoniRLCusGA19 9eBaya WeaverphilippinusRLCsGA20 0eBaya WeaverphilippinusRLCsGA20 0eRed MuniaamandavaRLCsGA20 10red MuniastriataRLCsGA20 20EstrildidMuite-rumpedLonchuraRLCsGA20 20 2EstrildidMuniastriataRLCsGA20 20 3EstrildidMuniapunctulataRLCsGA20 4aeScaly-breastedLonchuraNOmnivorouN3 200muniakelaartiRLCsGA200 5muniamalaccaRLCsGA201 5MuniamalaccaRLCsGA202 6PasseridLonchuraNCsGA203 7PasseridLonchuraRLCsGA204 7PasseridLonchuraRLCsGA20	-			•		N	LC		UA
19       iidae       Cinnyris       Nectarivoru         19       Purple Sunbird       asiaticus       R       LC       s       GA         19       Seidae       Leafbird       jerdon's       Chloropsis       R       LC       us       GA         19       Seidae       Leafbird       jerdon's       Chloropsis       R       LC       us       GA         20       Ploceida       Ploceus       Omnivorou       R       Amandava       Omnivorou       R         20       Amandava       R       LC       s       GA         20       Red Munia       amandava       R       LC       s       GA         20       Indian Silverbill       malabarica       R       LC       s       GA         20       Estrildid       ae       Scaly-breasted       Lonchura       Omnivorou       Munia         20       Scaly-breasted       Lonchura       C       S       GA         20       Black-throated       Lonchura       Omnivorou       Munia       Munia       S       GA         20       Passerid       Roser       Omnivorou       S       GA       GA       S       GA			Noctorin		•	D	10		G٨
711				Sullbilu		n	LC	-	GA
19       Chlorop       Jerdon's       Chloropsis       Insectivoro         19       seidae       Leafbird       jerdoni       R       LC       us       GA         19       e       Baya Weaver       philippinus       R       LC       s       GA         20       0       e       Baya Weaver       philippinus       R       LC       s       GA         20       0       Amandava       R       LC       s       GA         20       Amandava       R       LC       s       GA         20       Red Munia       amandava       R       LC       s       GA         20       White-rumped       Lonchura       R       LC       s       GA         20       Munia       striata       R       LC       s       GA         20       Munia       striata       R       LC       s       GA         20       Scaly-breasted       Lonchura       Omnivorou       Munia       malacca       R       LC       s       GA         20       Ficoloured       Lonchura       R       UC       s       GA         20       Passerid       Ant			nuae	Duralo Suphird		D	10		64
8seidaeLeafbirdjerdoniRLCusGA19PloceidaPloceusNOmnivorouPloceusNOmnivorouPloceus20AmandavaRLCsGA20Red MuniaamandavaRLCsGA20Indian SilverbillmalabaricaRLCsGA20MuniastriataRLCsGA20Scaly-breastedLonchuraRLCsGA20Scaly-breastedLonchuraRLCsGA20MuniapunctulataRLCsGA20Scaly-breastedLonchuraRLCsGA20MuniapunctulataRLCsGA20MuniapunctulataRLCsGA20MuniapunctulataRLCsGA20MuniapunctulataRLCsGA20SarrowAnthuraRLCsGA20SarrowvatinocilisRLCsGA20SarrowAnthusRLCsGA20SarrowvatinocilisRLCsGA20SarrowvatinocilisRLCsGA20SarrowvatinocilisRLCsGA20SarrowvatinocilisR <td>-</td> <td></td> <td>Chloron</td> <td></td> <td></td> <td>n</td> <td>LC</td> <td></td> <td>GA</td>	-		Chloron			n	LC		GA
19       Ploceida       Ploceus       N       Omnivorou         9       e       Baya Weaver       philippinus       R       LC       s       GA         20       Red Munia       amandava       R       LC       s       GA         20       Eucodice       N       Omnivorou       Manadava       R       LC       s       GA         20       Indian Silverbill       malabarica       R       LC       s       GA         20       White-rumped       Lonchura       R       LC       s       GA         20       Munia       striata       R       LC       s       GA         20       Munia       striata       R       LC       s       GA         20       Munia       striata       R       LC       s       GA         20       Munia       punctulata       R       LC       s       GA         20       Munia       malacca       R       LC       s       GA         20       Munia       Malacarti       R       LC       s       GA         20       Yellow-throated       Lonchura       Omnivorou       malacca       R<			•			D	10		64
9eBaya WeaverphilippinusRLCsGA20AmandavaRLCsGA20Red MuniaamandavaRLCsGA20EuodiceRLCsGA20Mite-rumpedLonchuraRLCsGA20MuniastriataRLCsGA20MuniastriataRLCsGA20Scaly-breastedLonchuraRLCsGA20Scaly-breastedLonchuraRLCsGA20Black-throatedLonchuraRLCsGA20MuniamalaccaRLCsGA20MuniamalaccaRLCsGA20Nonivorou </td <td></td> <td></td> <td></td> <td>Learbird</td> <td>-</td> <td>ĸ</td> <td>LC</td> <td></td> <td>GA</td>				Learbird	-	ĸ	LC		GA
20       Amandava       Omnivorou       Namadava       R       U       S       GA         20       I       Red Munia       amandava       R       LC       s       GA         20       Indian Silverbill       malabarica       R       LC       s       GA         20       White-rumped       Lonchura       Omnivorou       Munivorou       Munivorou         20       Scaly-breasted       Lonchura       Omnivorou       Munivorou         4       Scaly-breasted       Lonchura       Omnivorou       Munivorou         4       Munia       punctulata       R       LC       s       GA         20       Munia       kelaarti       R       LC       s       GA         20       Munia       kelaarti       R       LC       s       GA         20       Munia       malacca       R       LC       s       GA         20       Munia       malacca       R       LC       s       GA         20       Munia       malacca       R       LC       s       GA         20       Passeri       Omnivorou       S       S       GA         20 <td></td> <td></td> <td></td> <td></td> <td></td> <td>D</td> <td></td> <td></td> <td>~</td>						D			~
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1Indian SilverbillmalabaricaRLCSGA20White-rumpedLonchuraRLCSGA20aeScaly-breastedLonchuraRLCSGA20Scaly-breastedLonchuraRLCSGA20MuniapunctulataRLCSGA20MuniapunctulataRLCSGA20MuniakelaartiRLCSGA20TricolouredLonchuraRLCSGA20MuniakelaartiRLCSGA20MuniaMuniamalaccaRLCSGA20MuniaMuniaManaccaRLCSGA20MuniaMuniaConchuraRLCSGA20MuniaMuniaGymnorisRLCSGA20MuniaKathosclusRLCSGA20MotacilliAnthus trivialisRLCSGA20SparrowxanthocollisRLCSGA20MotacilliTree PipitAnthus trivialisMLCusGA20MotacilliMotacilliMLCusGAMLCusGA20MotacilliMotacilliMLCusGAMLCusGA				Red Munia		К	LC	-	GA
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21 0AnthusInsectivoro0Water PipitspinolettaMLCusGA21 1Motacilli daeRichard's PipitAnthus richardiMLCusGA21 2Motacilli daeRichard's PipitAnthus richardiMLCusGA21 3Paddyfield PipitAnthus rufulusRLCusGA21 3Tawny PipitcampestrisMLCusGA								Insectivoro	
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3     Tawny Pipit     campestris     M     LC     us     GA       21     Western Yellow     Insectivoro     Insectivoro	2	ļ		Paddyfield Pipit	Anthus rufulus	R	LC	us	GA
21   Western Yellow   Insectivoro	21				Anthus			Insectivoro	
	3			Tawny Pipit	campestris	М	LC	us	GA
4 Wagtail <i>Motacilla flava</i> M LC us NA	21			Western Yellow				Insectivoro	
	4			Wagtail	Motacilla flava	М	LC	us	NA

21			Motacilla			Insectivoro	
5		Grey Wagtail	cinerea	М	LC	us	NA
21		, ,	Motacilla			Insectivoro	
6		Citrine Wagtail	citreola	М	LC	us	NA
		0	Motacilla				
21		White-browed	maderaspaten			Insectivoro	
7		Wagtail	sis	М	LC	us	NA
21		U				Insectivoro	
8		White Wagtail	Motacilla alba	М	LC	us	NA
21		Common	Carpodacus			Granivorou	
9		Rosefinch	erythrinus	М	LC	S	GA
22			Emberiza			Granivorou	
0	Emberizi	Crested Bunting	lathami	М	LC	S	GA
22	dae	Black-headed	Emberiza			Granivorou	
1		Bunting	melanocephala	М	LC	s	GA
22		Red-headed	Emberiza			Granivorou	
2		Bunting	bruniceps	М	LC	s	GA
22		Rufous-tailed	Ammomanes			Omnivorou	
3		Lark	phoenicura	R	LC	s	GA
22		Ashy-crowned	Eremopterix			Omnivorou	
4		Sparrow Lark	griseus	R	LC	s	GA
22			Mirafra			Omnivorou	
5		Singing Bushlark	cantillans	R	LC	s	GA
22			Mirafra			Omnivorou	0,1
6		Bengal Bushlark	assamica	R	LC	s	GA
22		Dengar Dasmark	Mirafra		20	Omnivorou	0,1
7	Alaudida	Indian Bushlark	erythroptera	R	LC	s	GA
22	e	Greater Short-	Calandrella		20	Omnivorou	0,1
8	C	toed Lark	brachydactyla	М	LC	s	GA
22		Sykes's Short-	Calandrella		20	Omnivorou	0,1
9		toed Lark	dukhunensis	М	LC	s	GA
23			aakinanensis		20	Omnivorou	0,1
0		Oriental Skylark	Alauda gulgula	R	LC	s	GA
23		Offertur Skylark	Galerida		20	Omnivorou	0,1
1		Crested Lark	cristata	R	LC	s	GA
23						Omnivorou	
2		Sykes's Lark	Galerida deva	R	LC	s	GA
23		o y neo o Lank	Cisticola			Omnivorou	0,1
3		Zitting Cisticola	juncidis	R	LC	s	GA
23		Grey-breasted	Prinia			Insectivoro	
4		Prinia	hodgsonii	R	LC	us	GA
23			neugeenn			Insectivoro	0,1
5	Cisticoli	Jungle Prinia	Prinia sylvatica	R	LC	us	GA
23	dae	Jungle Frind				Insectivoro	0,1
6	uuc	Ashy Prinia	Prinia socialis	R	LC	us	GA
23					20	Insectivoro	0,1
7		Plain Prinia	Prinia inornata	R	LC	us	GA
23		Common	Orthotomus	IX.		Insectivoro	5,7
8		Tailorbird	sutorius	R	LC	us	GA
23	Locustell	Grasshopper	Locustella	1		Insectivoro	57
	idae	Warbler	naevia	М	LC	us	GA
9	IUUC	**UIDICI		111		us	57

24						Insectivoro	
0		Booted Warbler	Iduna caligata	М	LC	us	GA
24						Insectivoro	
1		Sykes's Warbler	Iduna rama	М	LC	us	GA
24		Olivaceous				Insectivoro	
2		Warbler	Iduna pallida	М	LC	us	GA
24	Acrocep	Blyth's Reed	, Acrocephalus			Insectivoro	
3	halidae	, Warbler	, dumetorum	М	LC	us	GA
24		Paddyfield	Acrocephalus			Insectivoro	
4		Warbler	agricola	М	LC	us	GA
24		Great Reed	Acrocephalus			Insectivoro	
5		Warbler	arundinaceus	М	LC	us	GA
24		Clamorous Reed	Acrocephalus			Insectivoro	
6		Warbler	stentoreus	Μ	LC	us	GA
24		Streak-throated	Petrochelidon			Insectivoro	
7		Swallow	fluvicola	Μ	LC	us	GA
24		Red-rumped	Cecropis			Insectivoro	
8		Swallow	daurica	Μ	LC	us	GA
24			Cecropis			Insectivoro	
9		Striated Swallow	striolata	Μ	LC	us	GA
25		Wire-tailed				Insectivoro	
0		Swallow	Hirundo smithii	Μ	LC	us	GA
25	Hirundin					Insectivoro	
1	idae	Barn Swallow	Hirundo rustica	Μ	LC	us	GA
25		Dusky Crag	Ptyonoprogne			Insectivoro	
2		Martin	concolor	R	LC	us	GA
25		Grey-throated	Riparia			Insectivoro	
3		Martin	chinensis	R	LC	us	GA
25						Insectivoro	
4		Sand Martin	Riparia riparia	R	LC	us	GA
25						Insectivoro	
5		Pale Martin	Riparia diluta	R	LC	us	GA
25		Red-vented	Pycnonotus				
6	Pycnono	Bulbul	cafer	R	LC	Frugivorous	GA
25	tidae	White-browed	Pycnonotus			Omnivorou	
7		Bulbul	luteolus	R	LC	S	GA
25		Hume's Leaf	Phylloscopus			Insectivoro	
8		Warbler	humei	Μ	LC	us	GA
25		Common	Phylloscopus			Insectivoro	
9		Chiffchaff	collybita	Μ	LC	us	GA
26	Phyllosc	Sulphur-bellied	Phylloscopus			Insectivoro	
0	opidae	Warbler	griseolus	Μ	LC	us	GA
26		Green Leaf	Phylloscopus			Insectivoro	
1		Warbler	nitidus	Μ	LC	us	GA
26		Greenish Leaf	Phylloscopus			Insectivoro	
2		Warbler	trochiloides	Μ	LC	us	GA
26		Eastern Orphean	Sylvia			Insectivoro	
3	Sylviidae	Warbler	crassirostris	Μ	LC	us	GA
26	,	Lesser				Insectivoro	
4		Whitethroat	Sylvia curruca	Μ	LC	us	GA

26			Yellow-eyed	Chrysomma			Omnivorou	
5			Babbler	sinense	R	LC	S	GA
26		Timaliid	Tawny-bellied	Dumetia			Omnivorou	
6		ae	Babbler	hyperythra	R	LC	S	GA
26			Quaker Tit	Alcippe			Omnivorou	
7			Babbler	poioicephala	R	LC	S	GA
26			Large Grey	Argya			Omnivorou	
8		Leiothric	Babbler	malcolmi	R	LC	S	GA
26		hidae	Common				Omnivorou	
9			Babbler	Argya caudata	R	LC	S	GA
27				Turdoides			Omnivorou	
0			Jungle Babbler	striata	R	LC	S	GA
27			Common	Sturnus			Omnivorou	
1			Starling	vulgaris	М	LC	S	GA
27							Omnivorou	
2			Rosy Starling	Pastor roseus	М	LC	S	GA
27			Asian Pied	Gracupica			Omnivorou	
3			Starling	contra	R	LC	S	GA
27		Sturnida	Brahminy	Sturnia			Omnivorou	
4		е	Starling	pagodarum	R	LC	S	GA
27			Chestnut-tailed	Sturnia			Omnivorou	
5			Starling	malabarica	R	LC	S	GA
27				Acridotheres			Omnivorou	
6			Common Myna	tristis	R	LC	S	GA
27				Acridotheres			Omnivorou	
7			Bank Myna	ginginianus	R	LC	S	GA
27				Saxicoloides			Insectivoro	
8			Indian Robin	fulicatus	R	LC	us	GA
27			Oriental Magpie	Copsychus			Insectivoro	
9			Robin	saularis	R	LC	us	GA
28			Asian Brown	Muscicapa			Insectivoro	
0			Flycatcher	dauurica	М	LC	US	GA
28			Tickell's Blue	Cyornis	_		Insectivoro	
1			Flycatcher	tickelliae	R	LC	us	GA
28			Verditer	Eumyias			Insectivoro	
2			Flycatcher	thalassinus	М	LC	US	GA
28			Indian Blue	Larvivora			Insectivoro	~ •
3		Muscica	Robin	brunnea	М	LC	us	GA
28		pidae	Dlugthurst	Luscinia			Insectivoro	
4			Bluethroat	svecica	М	LC	US	GA
28 5			Red-breasted	Finadula name	N 4		Insectivoro	<b>C</b> A
			Flycatcher	Ficedula parva	М	LC	US	GA
28 6			Taiga Elycatchar	Ficedula albicilla	М	LC	Insectivoro	GA
28			Taiga Flycatcher	Phoenicurus	IVI		us Insectivoro	GA
28 7			Black Redstart	ochruros	М	LC		GA
28			Blue Rock	Monticola	141		us Insectivoro	GA
28 8			Thrush	solitarius	М	LC		GA
8 28			Siberian	Saxicola	141		us Insectivoro	GA
28 9			Stonechat		R	LC		GA
3			JUNELIIAL	maurus	n		us	ЧU

29		Saxicola			Insectivoro	
0	Pied Bushchat	caprata	М	LC	us	GA
29	Desert	Oenanthe			Insectivoro	
1	Wheatear	deserti	М	LC	us	GA
29	Brown Rock	Oenanthe			Insectivoro	
2	Chat	fusca	R	LC	us	GA
29	Variable	Oenanthe			Insectivoro	
3	Wheatear	picata	М	LC	us	GA

Abbreviations: A - Aquatic, NA - Near Aquatic, GA - Grass & Arboreal