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# Birds of Natural Wetlands of North-west Punjab, India

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#### **Abstract**

Bird community of four natural wetlands around Gurdaspur, Punjab, India has been studied from April 2006-March 2010. Though various conservation strategies are implemented in protected areas still network of unrecognized natural wetlands are ignored. The network of such natural sites is important biodiversity corridor that facilitates the movement of migratory birds. The present study is step towards the protection of these valuable habitats, namely Keshopur Miani Community Reserve, Magarmudian chammb, Shalla Pattan wetland and Kahnuwan Wetland.

Key words: wetlands, birds, Punjab

#### Introduction

The recent studies assess freshwater biodiversity as the most threatened of all types of biodiversity and wetlands are found to be the richest sites by holding major share of the existing figure (Anon, 2000). It is estimated that freshwater wetlands alone support 20% of the known range of biodiversity in India (Deepa and Ramachandra, 1999).

Wetlands in India cover an area of 58.2 million hectares (Prasad *et al.*, 2002). In Wildlife Institute of India's survey reveals that wetlands are disappearing at a rate of 2% to 3% every year. Freshwater ecosystems are key component in food web and play an important role in nutrient recycling. Many communities depend on the freshwater ecosystems for food and livelihood source. Wetlands are extremely essential to the continued existence of India's diverse populations of wildlife and plant species; a large number of endemic species are wetland dependent. The fate of important birds like Sarus crane (VN) and

Common crane in India is dependent on the small natural wetlands. Natural wetlands of Gurdaspur now came into limelight as the most threatened crane population is coming regularly in winters. Bird diversity at Keshopur community reserve and Magarmudian is enormous. These four small wetlands host about 50 species of migratory birds and about 50000 migratory birds that flock the area during winter migratory season. These rich natural wetlands are extremely threatened because these valuable sites are still unprotected and waiting for action before being vanished in above mentioned sites in district Gurdaspur, Punjab, India. Wakefulness about the significance of wetlands is now very well known to all and was globally recognized.

### Study area

Study sites are situated around Gurdaspur from north-west to south-east in clock wise direction i.e., Magarmudian Chhamb in north-west (32°05′30″N and 75°22′35″E),

Keshopur Miani Community Reserve in north (32°05'47"N and 75°24'34"E), Shalla Pattan Wetland in east (32°00'1.6"N and 75°29'42"E) and Kahnuwan Chhamb in south-east (31°57′12″N and 75°27′24″E) (Figure 1). The above-mentioned wetlands are flood plain areas of the river Beas (Tributary of Indus river system). These wetlands are neither Ramsar sites nor do they find a place in National wetland map in India though qualifies and deserve it. They are at the verge of extinction disintegration due to public apathy. Although these sites are dramatically altered by human activity still continues to provide habitat for many bird and animal species.

#### Methodology

Observations were made regularly at 15 days interval from April. 2006 to March. 2010 during most active period for birds. Co-ordinates of study sites were recorded with Garmin Global Positioning System. Direct count method was followed to take field data. 10-15 minutes were spent at each point to avoid repeated counting of same bird individual. Observations were carried out with the aid of 10-12×50 Nikon binoculars and photography was done with EOS 1000 D Canon with 75-300 mm telescopic lens. Identification of birds was done using field guides (Ali and Ripely, 1987; Grimmet et al., 1999). Abundance and status of recorded birds was established on frequency of occurrence during field visits. Status of species was classified into resident (R) and winter migrant (WM).

### Results and discussion

A total of 233 species of birds belonging to 50 families were recorded from four small natural wetlands around Gurdaspur within

10 km range Table 1. Out of 233 recorded species, 72 are resident, 158 are migratory and 3 having sporadic occurrence. Highest number of birds was recorded in the month of January and lowest number was recorded in the month of June. Among four selected study sites two namely Keshopur Miani Community Reserve and Magarmudian chammb are holding major share as open water and other two namely Shalla Pattan and Kahnuwan are typically mashy lands along river Beas. Habitat preference has been observed in different bird species as common coot (Fulica atra), common poachard (Aythya ferina), pintail (Anas acuta), gadwall (Anas strepera), mallard (Anas platyrhynchos) dominates open water wetlands whereas common cranes (Grus grus), Sarus crane (Grus antigone), Whooly necked stork (Ciconia episcopus), Bar headed geese (Anser indicus) and huge variety of raptor dominates marshy lands. Our four year study establishes the richness of these wetlands in respect of bird fauna which are excellent indicators of ecological health. These wetlands are not Ramsar sites nor did they find any place in National wetland map though they qualifies and deserve it.

#### References

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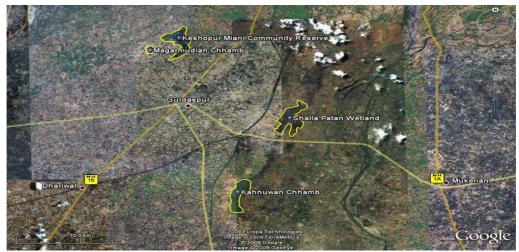


Figure 1. Map of the study area

Table 1. Total bird species recorded

Common name	Scientific name	Status / occurrence
Family: Accipitridae		
Black Eagle	Ictinaetus malayensis	IB/R
Black Kite	Milvus migrans migrans	RB/UC
Black Winged Kite	Elanus caeruleus	RB/C
Bonellis Eagle	Hieraaetus fasciatus	RB/UC
Booted Hawk Eagle	Hieraaetus pennatus	RB/UC
Brahminy Kite	Haliastur indus	IB/UC
Changeable Hawk Eagle	Spizaetus cirrhatus limnaeetus	RB/UC
Crested Hawk-Eagle	Spizaetus cirrhatus cirrhatus	RB/C
Crested Serpent Eagle	Spilornis cheela	RB/C
Great Spotted Eagle	Aquila clanga	WM/R
Hen Harrier	Circus cyaneus	WM/R
Honey Buzzard	Pernis ptilorhyncus	IB/UC
Indian White Backed Vulture	Gyps bengalensis	RB/C
Lesser Spotted Eagle	Aquila pomarina	WM/R
Marsh Harrier	Circus aeruginosus	WM/C
Osprey	Pandion Haliaetus	RB/UC
Pallass Fishing Eagle	Haliaeetus leucoryphus	RB/UC
Pallid Harrier	Circus macrourus	WM/R
Pariah Kite	Milvus migrans govinda	IB/UC
Scavenger Vulture	Neophron percnopterus	RB/C
Shikra	Accipiter badius	RB/UC

Tawny Eagle Aquila rapax vindhiana WM/R RB/R Family: Alaudidae Ashy Crowned Sparrow Lark Eremopterix grisea RB/UC Bush Lark Mirafra assamica RB/UC Crested Lark Galerida cristata RB/C Eastern Sky Lark Alauda gulgula RB/UC Sky Lark Mirafra expthroptera RB/UC Sky Lark Alauda arvensis RB/UC Family: Alcedinidae Common Kingfisher Alcedo atthis WM/C Easter Pied Kingfisher Megaceryle lugubris WM/R Stork Billed Kingfisher Pelargopsis capensis RB/UC WM/C Lesser Pied Kingfisher Pelargopsis capensis RB/UC White-Breasted Kingfisher Haleyon smyrnensis RB/UC Family: Anatidae Common Merganser Mergus merganser WM/R Common Pochard Aythya ferina WM/C Common Teal Anas crecca WM/C Curasian Wigeon Anas penelope WM/C Garganey Anasquer quedula WM/UC Garganey Anasquer quedula WM/UC Lesser Whistling Duck Dendrocygna javanica RB/C Garganey Anasquer quedula WM/UC Pintail Anas acuta WM/C Dendrocygna javanica RB/C Mallard Anas shylythynchos WM/UC Rederested Pochard Neta rufinna WM/C Greylag Geese Anser anser WM/C Greylag Geese Anser anser WM/C Greylag Geese Anser anser WM/C Garfanic Shoveler Anas chypeata WM/C Greylag Geese Anser anser WM/C Gargal Swift Apus affinis RB/C Family: Apodidae House Swift Apus affinis RB/C Cimamon Bittern Lxobrychus flavicollis RB/UC Easter Where Delarger Ardea alba RB/C Cimamon Bittern Lxobrychus cinnamomeus RB/UC Earge Egret Ardea alba RB/C Little Egret Ardea alba RB/C Night Heron Nycticorax RB/UC	Short Toed Eagle	Circaetus gallicus	RB/UC
Family: Alaudidae Ashy Crowned Sparrow Lark Bush Lark Mirafra assamica RB/UC Crested Lark Galerida cristata RB/UC Indian Bush Lark Alauda gulgula RB/UC Indian Bush Lark Alauda gulgula RB/UC Indian Bush Lark Alauda gulgula RB/UC Indian Bush Lark Alauda arvensis RB/UC Family: Alcedinidae Common Kingfisher Alcedo atthis RB/C Himalayam Pied Kingfisher Alcedo atthis WM/C Lesser Pied Kingfisher Alcedo atthis WM/R Stork Billed Kingfisher Pelargopsis capensis RB/UC White-Breasted Kingfisher Pelargopsis capensis RB/UC White-Breasted Kingfisher Alcedo atthis RB/C Family: Anatidae Common Merganser Mergus merganser WM/R Common Pochard Aythya ferina WM/C Common Teal Anas crecca WM/C Euras ian Wigeon Anas penelope WM/C Garganey Anas wrepera WM/C Garganey Anas quer quedula WM/UC Lesser Whistling Duck Dendrocygna javanica RB/C Mallard Anas acuta WM/C Redcrested Pochard Netta rufinna WM/C Redcrested Pochard Netta rufinna WM/C Ruddy Shelduck(Brahminy Duck) Tadorna ferruginea WM/C Ruddy Shelduck(Brahminy Duck) Tadorna ferruginea WM/C Shoveler Anas clypeata WM/C Shoveler Anas chypeata WM/C Family: Apodidae House Swift Apus affinis RB/C Palm Swift Cypsiurus balasiensis RB/UC Cattle Egret Bubulcus ibis RB/UC Large Egret Little Eg	Tawny Eagle	Aquila rapax vindhiana	WM/R
Ashy Crowned Sparrow Lark Bush Lark Mirafra assamica RB/UC Crested Lark Galerida cristata RB/UC Indian Bush Lark Mirafra erythroptera RB/UC Indian Bush Lark Mirafra erythroptera RB/UC Sky Lark Alauda gulgula RB/UC Indian Bush Lark Mirafra erythroptera RB/UC Sky Lark Alauda arvensis RB/UC Family: Alcedinidae Common Kingfisher Alcedo atthis RB/C Himalayan Pied Kingfisher Ceryle rudis WM/C Lesser Pied Kingfisher Megaceryle lugubris WM/R Stork Billed Kingfisher Pelargopsis capensis RB/UC White-Breasted Kingfisher Haleyon smyrnensis RB/C Family: Anatidae Common Merganser Mergus merganser WM/R Common Pochard Aythya ferina WM/C Common Teal Anas crecca WM/C Eurasian Wigeon Anas penelope WM/C Garganey Anasular quedula WM/UC Lesser Whistling Duck Dendrocygna javanica RB/C Mallard Anas platyrhynchos WM/UC Rederested Pochard Netta rufinna WM/C Ruddy Shelduck(Brahminy Duck) Tadorna ferruginea WM/C Ruddy Shelduck(Brahminy Duck) Tadorna ferruginea WM/C Showeler Anse ranser WM/C Showeler Anse rindicus WM/C Family: Apodidae House Swift Apus affinis RB/C Palm Swift Cypsiurus balasiensis RB/UC Cattle Egret Bubulcus ibis RB/UC Cinnamon Bittern Lxobrychus cinnamomeus RB/UC Clarge Egret Ardea alba RB/C Clarge Egret Ardea alba RB/C Little Egret Egreta garzetta	White Eyed Buzzard	Butastur teesa	RB/R
Bush Lark	Family: Alaudidae		
Bush Lark	Ashy Crowned Sparrow Lark	Eremopterix grisea	RB/UC
Eastern Sky Lark		Mirafra assamica	RB/UC
Indian Bush Lark  Sky Lark  Alauda arvensis  RB/UC  Family: Alcedinidae  Common Kingfisher  Alcedo atthis  RB/C  Himalayan Pied Kingfisher  Lesser Pied Kingfisher  Megaceryle lugubris  WM/C  Lesser Pied Kingfisher  Megaceryle lugubris  RB/UC  White-Breasted Kingfisher  Halcyon smyrnensis  RB/C  Family: Anatidae  Common Merganser  Mergus merganser  WM/C  Common Pochard  Aythya ferina  WM/C  Common Teal  Anas crecca  WM/C  Garganey  Anas penelope  WM/C  Garganey  Anas penelope  WM/C  Mallard  Anas palayrhynchos  WM/UC  Pintail  Anas acuta  WM/C  Redcrested Pochard  Netta rufinna  WM/C  Ruddy Shelduck(Brahminy Duck)  Tadorna ferruginea  WM/C  Barheaded Geese(Nanjal)  Anser indicus  WM/C  Family: Apodidae  House Swift  Apus affinis  RB/C  Palm Swift  Cypsiurus balasiensis  RB/UC  Little Egret  Egretta garzetta  RB/C  Egretta garzetta	Crested Lark	Galerida cristata	RB/C
Sky Lark Alauda arvensis RB/UC Family: Alcedinidae Common Kingfisher Alcedo atthis RB/C Himalayan Pied Kingfisher Ceryle rudis WM/C Lesser Pied Kingfisher Megaceryle lugubris WM/R Stork Billed Kingfisher Pelargopsis capensis RB/UC White-Breasted Kingfisher Halcyon smyrnensis RB/C Family: Anatidae Common Merganser Mergus merganser WM/R Common Pochard Aythya ferina WM/C Common Teal Anas crecca WM/C Gadwall Anas strepera WM/C Gadwall Anas strepera WM/C Garganey Anasquer quedula WM/UC Lesser Whistling Duck Dendrocygna javanica RB/C Mallard Anas acuta WM/C Pintail Anas acuta WM/C Redcrested Pochard Netta rufinna WM/C Ruddy Shelduck(Brahminy Duck) Tadoma ferruginea WM/C Shoveler Anas crigonal WM/C Barbeaded Geese(Nanjal) Anser indicus WM/C Family: Apodidae House Swift Apus affinis RB/C Palm Swift Cypsiurus balasiensis RB/UC Family: Ardeidae Black Bittern Lxobrychus flavicollis RB/UC Cattle Egret Bubulcus ibis RB/C Cinnamon Bittern Lxobrychus cinnamomeus RB/UC Large Egret Ardea alba RB/C Little Egret Egretta garzetta RB/UC Little Egret Egretta garzetta RB/UC Little Egret Egretta RB/UC Little Egret Egreta garzetta RB/UC Little Egret Egreta garzetta RB/UC Little Egret Egreta garzetta	Eastern Sky Lark	Alauda gulgula	RB/UC
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Lesser Pied Kingfisher  Stork Billed Kingfisher  White-Breasted Kingfisher  Halcyon smyrnensis  RB/C  Family: Anatidae  Common Merganser  Mergus merganser  WM/R  Common Pochard  Aythya ferina  WM/C  Eurasian Wigeon  Gadwall  Anas penelope  WM/C  Garganey  Anas guer quedula  WM/UC  Lesser Whistling Duck  Mendiard  Anas patyrhynchos  WM/C  Redcrested Pochard  Netta rufinna  WM/C  Ruddy Shelduck(Brahminy Duck)  Tadorna ferruginea  WM/C  Greylag Geese  Anser anser  WM/C  Barheaded Geese(Nanjal)  Anser indicus  WM/C  Family: Ardeidae  Black Bittern  Lxobrychus flavicollis  RB/C  Cinnamon Bittern  Lxobrychus cinnamomeus  RB/C  Cintle Egret  Ardea alba  RB/C  Little Egret  Egretta garzetta  RB/C  RB/C  Little Egret  Egretta garzetta  RB/C	Himalayan Pied Kingfisher	Ceryle rudis	WM/C
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Gadwall Anas strepera WM/C Garganey Anasquer quedula WM/UC Lesser Whistling Duck Dendrocygna javanica RB/C Mallard Anas platyrhynchos WM/UC Pintail Anas acuta WM/C Redcrested Pochard Netta rufinna WM/C Ruddy Shelduck(Brahminy Duck) Tadorna ferruginea WM/C Shoveler Anas clypeata WM/C Greylag Geese Anser anser WM/C Barheaded Geese(Nanjal) Anser indicus WM/C Family: Apodidae House Swift Apus affinis RB/C Palm Swift Cypsiurus balasiensis RB/UC Family: Ardeidae Black Bittern Ixobrychus flavicollis RB/UC Cattle Egret Bubulcus ibis RB/UC Grey Heron Ardea cinerea RB/UC Large Egret Ardea alba RB/C Little Egret Egreta garzetta RB/C	Common Teal	Anas crecca	WM/C
Garganey Lesser Whistling Duck Mallard Anas platyrhynchos WM/UC Pintail Anas acuta WM/C Redcrested Pochard Redcrested Pochard Netta rufinna WM/C Ruddy Shelduck(Brahminy Duck) Tadorna ferruginea WM/C Shoveler Anas clypeata WM/C Greylag Geese Anser anser WM/C Barheaded Geese(Nanjal) Anser indicus WM/C Family: Apodidae House Swift Apus affinis RB/C Palm Swift Cypsiurus balasiensis RB/UC Family: Ardeidae Black Bittern Ixobrychus flavicollis RB/C Cinnamon Bittern Ixobrychus cinnamomeus RB/UC Grey Heron Ardea cinerea RB/UC Large Egret Ardea alba RB/C Little Egret Egretta garzetta RB/C Little Egret Egretta garzetta	Eurasian Wigeon	Anas penelope	WM/C
Lesser Whistling DuckDendrocygna javanicaRB/CMallardAnas platyrhynchosWM/UCPintailAnas acutaWM/CRedcrested PochardNetta rufinnaWM/CRuddy Shelduck(Brahminy Duck)Tadorna ferrugineaWM/CShovelerAnas clypeataWM/CGreylag GeeseAnser anserWM/CBarheaded Geese(Nanjal)Anser indicusWM/CFamily: ApodidaeApus affinisRB/CPalm SwiftCypsiurus balasiensisRB/UCFamily: ArdeidaeIxobrychus flavicollisRB/UCBlack BitternIxobrychus flavicollisRB/UCCattle EgretBubulcus ibisRB/CCinnamon BitternIxobrychus cinnamomeusRB/UCGrey HeronArdea cinereaRB/UCLarge EgretArdea albaRB/CLittle EgretEgretta garzettaRB/C	Gadwall	Anas strepera	WM/C
MallardAnas platyrhynchosWM/UCPintailAnas acutaWM/CRedcrested PochardNetta rufinnaWM/CRuddy Shelduck(Brahminy Duck)Tadorna ferrugineaWM/CShovelerAnas clypeataWM/CGreylag GeeseAnser anserWM/CBarheaded Geese(Nanjal)Anser indicusWM/CFamily: ApodidaeWM/CHouse SwiftApus affinisRB/CPalm SwiftCypsiurus balasiensisRB/UCFamily: ArdeidaeRB/UCBlack BitternIxobrychus flavicollisRB/UCCattle EgretBubulcus ibisRB/CCinnamon BitternIxobrychus cinnamomeusRB/UCGrey HeronArdea cinereaRB/UCLarge EgretArdea albaRB/CLittle EgretEgretta garzettaRB/C	Garganey	Anasquer quedula	WM/UC
Pintail Anas acuta WM/C Redcrested Pochard Netta rufinna WM/C Ruddy Shelduck(Brahminy Duck) Tadorna ferruginea WM/C Shoveler Anas clypeata WM/C Greylag Geese Anser anser WM/C Barheaded Geese(Nanjal) Anser indicus WM/C Family: Apodidae House Swift Apus affinis RB/C Palm Swift Cypsiurus balasiensis RB/UC Family: Ardeidae Black Bittern Lxobrychus flavicollis RB/UC Cattle Egret Bubulcus ibis RB/C Cinnamon Bittern Lxobrychus cinnamomeus RB/UC Grey Heron Ardea cinerea RB/UC Large Egret Ardea alba RB/C Little Egret Egretta garzetta RB/C	Lesser Whistling Duck	Dendrocygna javanica	RB/C
Redcrested PochardNetta rufinnaWM/CRuddy Shelduck(Brahminy Duck)Tadorna ferrugineaWM/CShovelerAnas clypeataWM/CGreylag GeeseAnser anserWM/CBarheaded Geese(Nanjal)Anser indicusWM/CFamily: ApodidaeHouse SwiftApus affinisRB/CPalm SwiftCypsiurus balasiensisRB/UCFamily: ArdeidaeBlack BitternIxobrychus flavicollisRB/UCCattle EgretBubulcus ibisRB/CCinnamon BitternIxobrychus cinnamomeusRB/UCGrey HeronArdea cinereaRB/UCLarge EgretArdea albaRB/CLittle EgretEgretta garzettaRB/C	Mallard	Anas platyrhynchos	WM/UC
Ruddy Shelduck(Brahminy Duck)  Shoveler  Anas clypeata  WM/C  Greylag Geese  Anser anser  WM/C  Barheaded Geese(Nanjal)  Anser indicus  WM/C  Family: Apodidae  House Swift  Apus affinis  RB/C  Palm Swift  Cypsiurus balasiensis  RB/UC  Family: Ardeidae  Black Bittern  Ixobrychus flavicollis  RB/UC  Cattle Egret  Bubulcus ibis  RB/UC  Cinnamon Bittern  Ixobrychus cinnamomeus  RB/UC  Grey Heron  Ardea cinerea  RB/UC  Large Egret  Ardea alba  RB/C  Little Egret  Egretta garzetta  RB/C	Pintail	Anas acuta	WM/C
Shoveler Anas clypeata WM/C Greylag Geese Anser anser WM/C Barheaded Geese(Nanjal) Anser indicus WM/C Family: Apodidae House Swift Apus affinis RB/C Palm Swift Cypsiurus balasiensis RB/UC Family: Ardeidae Black Bittern Ixobrychus flavicollis RB/UC Cattle Egret Bubulcus ibis RB/C Cinnamon Bittern Ixobrychus cinnamomeus RB/UC Grey Heron Ardea cinerea RB/UC Large Egret Ardea alba RB/C Little Egret Egretta garzetta RB/C	Redcrested Pochard	Netta rufinna	WM/C
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Barheaded Geese(Nanjal)  Family: Apodidae  House Swift  Apus affinis  RB/C  Palm Swift  Cypsiurus balasiensis  RB/UC  Family: Ardeidae  Black Bittern  Ixobrychus flavicollis  RB/UC  Cattle Egret  Bubulcus ibis  RB/C  Cinnamon Bittern  Ixobrychus cinnamomeus  RB/UC  Grey Heron  Ardea cinerea  RB/UC  Large Egret  Ardea alba  RB/C  Little Egret  Egretta garzetta  RB/C	Shoveler	Anas clypeata	WM/C
Family: Apodidae House Swift Apus affinis RB/C Palm Swift Cypsiurus balasiensis RB/UC Family: Ardeidae Black Bittern Ixobrychus flavicollis RB/UC Cattle Egret Bubulcus ibis RB/C Cinnamon Bittern Ixobrychus cinnamomeus RB/UC Grey Heron Ardea cinerea RB/UC Large Egret Ardea alba RB/C Little Egret Egretta garzetta RB/C	Greylag Geese	Anser anser	WM/C
House Swift Apus affinis RB/C Palm Swift Cypsiurus balasiensis RB/UC Family: Ardeidae Black Bittern Ixobrychus flavicollis RB/UC Cattle Egret Bubulcus ibis RB/C Cinnamon Bittern Ixobrychus cinnamomeus RB/UC Grey Heron Ardea cinerea RB/UC Large Egret Ardea alba RB/C Little Egret Egretta garzetta RB/C	Barheaded Geese(Nanjal)	Anser indicus	WM/C
Palm Swift  Cypsiurus balasiensis  RB/UC  Family: Ardeidae  Black Bittern  Ixobrychus flavicollis  RB/UC  Cattle Egret  Bubulcus ibis  RB/C  Cinnamon Bittern  Ixobrychus cinnamomeus  RB/UC  Grey Heron  Ardea cinerea  RB/UC  Large Egret  Ardea alba  RB/C  Little Egret  Egretta garzetta  RB/C	Family: Apodidae		
Family: Ardeidae  Black Bittern  Lxobrychus flavicollis  RB/UC  Cattle Egret  Bubulcus ibis  RB/C  Cinnamon Bittern  Lxobrychus cinnamomeus  RB/UC  Grey Heron  Ardea cinerea  RB/UC  Large Egret  Ardea alba  RB/C  Little Egret  Egretta garzetta  RB/C	House Swift	Apus affinis	RB/C
Black BitternIxobrychus flavicollisRB/UCCattle EgretBubulcus ibisRB/CCinnamon BitternIxobrychus cinnamomeusRB/UCGrey HeronArdea cinereaRB/UCLarge EgretArdea albaRB/CLittle EgretEgretta garzettaRB/C	Palm Swift	Cypsiurus balasiensis	RB/UC
Cattle EgretBubulcus ibisRB/CCinnamon BitternIxobrychus cinnamomeusRB/UCGrey HeronArdea cinereaRB/UCLarge EgretArdea albaRB/CLittle EgretEgretta garzettaRB/C	Family: Ardeidae		
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Grey Heron Ardea cinerea RB/UC Large Egret Ardea alba RB/C Little Egret Egretta garzetta RB/C	Cattle Egret	Bubulcus ibis	RB/C
Large Egret Ardea alba RB/C Little Egret Egretta garzetta RB/C	Cinnamon Bittern	Ixobrychus cinnamomeus	RB/UC
Little Egret Egretta garzetta RB/C	Grey Heron	Ardea cinerea	RB/UC
	Large Egret	Ardea alba	RB/C
Night Heron Nycticorax nycticorax RB/UC	Little Egret	Egretta garzetta	RB/C
	Night Heron	Nycticorax nycticorax	RB/UC

Pond Heron Or Paddy Bird	Ardeola grayii	RB/C
Purple Heron	Ardea purpurea	RB/C
Smaller Egret	Egretta intermedia	RB/C
Yellow Bittern	Ixobrychus sinensis	RB/UC
Family: Bucerotidae		
Common Grey Hornbill	Ocyceros birostris	RB/C
Indian Pied Hornbill	Anthracoceros albiroslris	RB/C
Family: Campephagidae		
Bay Backed Shrike	Lanius viltatus	RB/C
Long Tailed Shrike	Lanius schach	RB/C
Scarlet Minivet	Pericrocotus flammeus	WM/UC
Small Minivet	Pericrocotus cinnamomeus	RB/C
Family: Capitonidae		
Blue Throated Barbet	Megalaima asiatica	RB/UC
Coppersmith Barbet	Megalaima haemacephala	IB/UC
Large Green Barbet	Megalaima zeylanica	RB/C
Family: Caprimulgidae		
Franklin,S Nightjar	Caprimulgusaffinis	RB/C
Little Nightjar	Caprimulgus asiaticus	RB/UC
Family: Caruidae		
Common Crane	Grus grus	WM/C
Demoiselle Crane	Grus virgo	WM/R
Sarus Crane	Grus antigone	RB/C
Family: Charadriidae		
Bartailed Godwit	Limo'sa lapponica	WM/R
Black-Tailed Godwit	Limosa limosa	WM/R
Common Redshank	Tringa totanus	WM/C
Common Sandpiper	Tringa hypoleucos	WM/C
Curlew (Eurasian)	Numenius arquata	WM/R
Fantail Snip (Common)	Gallinago allinago	WM/UC
Green Sandpiper	Tringa ochropus	WM/C
Green Shank	Tringa nebularia	WM/C
Jack Snipe	Gallinago minima	WM/UC
Kentish Plover	Charadrius alexandrinus	WM/UC
Little Ringed Plover	Charadrius dubius	BR/C
Little Stint	Calidris minuta	WM/C
Long-Toed Stint	Calidris subminuta	WM/C
Marsh Sandpiper	Tringa stagnatilis	WM/C
Northern Lapwing	Vanellus vanellus	WM/UC
Red-Wattled Lapwing	Vanallus indicus	RB/C
Ruff And Reave	Philomachus pugnax	WM/C
Sppoted Or Dusky Redshank	Tringa erythropus	WM/R

Wood Sandpiper Yellow-Wattled Lapwing Vanellus malabaricus IB/R Family: Ciconidae Family: Ciconidae Painted Stork, My cteria leuco cephala RB/UC Woolly Necked Stork Ciconia episcopus WM/C Family: Columbidae Blue Rock Pigeon Columba livia RB/C Little Brown Dove Steptopelia decaocto RB/C Little Brown Dove Steptopelia senegalensis RB/C Rufous Turtule Dove Steptopelia tranquebarica RB/C Rufous Turtule Dove Steptopelia chiensis RB/C Spotted Dove Steptopelia chiensis RB/C Family: Coraciidae Indian Roller Coracias benghalensis RB/C Family: Corvidae House Crow Corvus splendens RB/C Indian Tree Pie (Rufous) Dendrocitta vagabunda RB/C Indian Tree Pie (Rufous) Dendrocitta vagabunda RB/C Family: Cuculidae Common Hawk Cuckoo Cuculus varius SM/C Indian Cuckoo Cuculus micropterus SM/C Koel-Cuckoo Eudynamys scolopacea RB/C Large Couca (Crow Pheasant) Centropus toulou RB/C Easser Coucal Crow Pheasant) Centropus toulou RB/C Family: Dicruridae Ashy Drongo Dicrurus leucophaeus RB/C Family: Dicruridae Ashy Drongo Dicrurus caerulescens RB/C Family: Falconidae Laggar Falcon Falco biarmicus jugger WM/R Family: Hirundinidae Plain Sand Martin Riparia paludicola RB/UC Family: Hirundinidae Plain Sand Martin Riparia paludicola RB/UC Family: Irenidae Ora (Indian Iora) Aegithina tiphia RB/UC Family: Jacanidae Bronzewinged Jacana Metopidius indicus RB/C Family: Jacanidae Bronzewinged Jacana Metopidius indicus RB/C	White Tailed Lapwing	Vanellus leucurus	WM/UC
Yellow-Wattled Lapwing Pamily: Cisconidae Painted Stork, Woolly Necked Stork Ciconia episcopus WM/C Family: Columbidae Blue Rock Pigeon Indian Ring Dove Steptopelia decaocto RB/C Little Brown Dove Streptopelia decaocto RB/C Red Turtle Dove Streptopelia tranquebarica RB/C Rufous Turtule Dove Streptopelia orientalis RB/C Spotted Dove Steptopelia orientalis RB/C Spotted Dove Steptopelia corientalis RB/C Spotted Dove Steptopelia orientalis RB/C Spotted Dove Steptopelia decaocto Steptopelia decaocto Spotted RB/C Spotted Dove Steptopelia decaocto Spotted Spotte		Tringa glareola	
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Pheasant Tailed Jacana Hydrophasianus chirurgus RB/C		•	RB/C
	Pheasant Tailed Jacana	Hydrophasianus chirurgus	RB/C

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Family: Laniidae		
Bay Backed Shrike	Lanius vittatus	RB/UC
Blacked Shrike Or Rufous (Longtailed)	Lanius schach	IB/R
Southern Grey Shrike	Lanius meridionalis	RB/UC
Family: Laridae		
Black Bellied Tern	Sterna acuticauda	IB/R
Black Headed Gull	Larus ridibundus	WM/R
Brown Headed Gull	Larus brunnicephalus	WM/R
Common Tern	Sterna hirundo	RB/C
Great Black Headed Gull	Larus ichthyaetus	WM/R
Indian River Tern	Sterna aurantia	RB/C
Family: Meropidae		
Blue-Tailed Bee-Eater	Merops philippinus	RB/C
Green Bee-Eater	Merops orientalis	RB/C
Family: Motacillidae		
Grey-Wagtail	Motacilla cinerea	WM/C
Pied Wagtail (White Wagtail)	Motacilla alba	WM/C
Yellow Headed Wagtail/ Citrine Wagtail	Motacilla citreola	WM/C
Yellow Wagtail	Motacilla flava	WM/C
Family: Muscicapinae		
Blue-Throated Fly Catcher	Muscicapa rubeculoides	IB/UC
Darks ided Flycatcher	Muscicapa sibirica	WM/UC
Rufous Gorgeted Flycatcher	Ficedula strophiata	RB/UC
Slaty Blue Fly Catcher	Ficedula tricolor	WM/UC
Tickell'S Blue Fly Catcher	Muscicapa tickelliae	RB/UC
White-Browed Fan Tail Fly Catcher	Rhipidura aureola	RB/UC
White-Throated Fantail Fly Catcher	Rhipidura albicollis	RB/UC
Yellow Bellied Fan Tail Fly Catcher	Rhipidura hypoxantha	WM/UC
Red-Breasted Fly Catcher	Ficedula strophiata parya	WM/C
Family: Nectariniidae		
Crimson Sunbird	Aethopyga siparaja	RB/UC
Purple Sun Bird	Nectarinia asiatica	RB/C
Family:ORIOLIDAE		
Black Headed Oriole	Oriolous xanthornus	RB/C
Black Naped Oriole	Oriolous chinensis	RB/UC
Eurasian Golden Oriole	Oriolous oriolus	RB/UC
Family: Pachycephalinae, Sub- Sylviinae		
Brown Leaf Warbler Or Chiffchaff	Phylloscopus collybita	WM/UC
Dull Green Leaf Warbler	Phylloscopus trochiloides	WM/UC
Striated Marsh Warbler	Megalurus palustris	RB/UC
Tailor Bird	Orthotomus sutorius	RB/C
Family Dachyaanhalinga Cub Turdinga		

Family: Pachycephalinae, Sub-Turdinae

Black Redstart	Phoenicurus ochruros	WM/UC
Brown Rock Chat	Cercomela fusca	RB/UC
Collared Bush Chat (Stone Chat)	Saxicola torquata	RB/C
Dark-Grey Bush Chat	Saxicola ferrea	WM/UC
Magpie Robin	Copsychus saularis	RB/C
Pied Bush Chat	Saxicola caprata	RB/C
White Capped Water Redstart	Chaimarrornis leucocephalus	RB/C
White Tailed Stone Chat	Saxicola leucura	IB/UC
Family: Paridae		
Black Lored Tit	Parus xanthogenys	RB/R
Great Tit	Parus major	RB/C
Family: Phalacrocoracidae		
Darter	Anhinga rufa	RB/C
Indian Cormorant	Phalacrocorax fuscicollis	IB/C
Large Cormorant	Phalacrocorax carbo	RB/C
Little Cormorant	Phalacrocorax niger	RB/C
Family: Phasianidae		
Black Breasted Quail (Rain Quail)	Coturnix coromandelica	RB/C
Black Partridges/Francolin	Francolinus francolinus	RB/C
Blue Breasted Quail	Coturnix chinensis	RB/C
Common Peafowl	Pavo cristatus	RB/C
Grey Partridges /Francolin	Francolinus pondicerianus	RB/C
Grey Quail(Common)	Coturnix coturnix	RB/C
Red Jungle Fowl	Gallus gallus	RB/C
Family: Picidae		
Black Backed Woodpecker	Chrysocoleptes fectivus	RB/R
Golden Becked Woodpecker	Dinopium shorii	RB/C
Himalayan Pied Woodpecker	Dendrocopos himalaYensis	RB/UC
Larger Golden Backed Woodpecker	Chrysocolaptes lucidus	IB/UC
Lesser Golden Backed Woodpecker/ Black	Dinopium benghalense	RB/C
Fumped Flameback Wryneck	Jynx torquilla	WM/UC
Yellow Crowned Woodpecker	Dendrocopos mahrattensis	RB/UC
Family: Pittidae	Denarocopos manratiensis	KB/UC
Indian Pitta	Ditta bya abyuwa	RB/C
·	Pitta brachyura	KD/C
Family: Ploceidae Baya, Weaver Birds	Placeus philippinus	DD/C
Black Throated Weaver Bird / Black Breasted	Ploceus philippinus Ploceus benghalensis	RB/C RB/UC
Chest Nut- Shouldered Petronia		
	Petronia xanthocollis	RB/C
House Sparrow	Passer domesticus Estrilda amandaya / Amandaya	RB/C
Red Munia Or Avadavat	Estrilda amandava / Amandava amandava	RB/C
Scaly-Breasted Munia/Spotted Munia	Lonchura punctulata	RB/C

Streaked Weaver Bird	Ploceus manyar	RB/UC
Spanish Sparrow	Passer hispaniolensis	WM/UC
Family: Podicipedidea		
Great Crested Grebe	Podiceps cristatus	WM/R
Little Grebe	Podiceps ruficollis	RB/UC
Family: Prionopidae		
Common Wood Shrike	Tephrodornis pondicerianus	RB/C
Family: Psittacidae		
Alexandrine Parakeet	Psittacula eupatria	RB/C
Grey Headed Parakeet	Psittacula finschii	RB/C
Plum Headed Parakeet	Psittacula cyanocephala	RB/C
Rose Ringed Parakeet	Psittacula kramei	RB/C
Family: Pycnonotidae		
Black-Headed Yellow Bulbul	Pycnonotus melanicterus flaviventris	RB/UC
Grey Bulbul (Black Bulbul)	Hypsipetes madagascariensis	RB/C
Red Vented Bulbul	Pycnonotus cafer	RB/C
Red Whiskered Bulbul	Pycnonotus jocosus	RB/C
White Cheeked Bulbul	Pycnonotus leucogenys	RB/UC
Family: Rallidae		
Coot	Fulica atra	WM/C
Indian Gallinule/Indian Moorhen	Gcrllinula chloropus	RB/C
Purple Gallinule/Purple Moorhen	Porphyrio porphyrio	RB/C
Water Cock	Gallicrex cincrea	W/R
White Breasted Water Hen	Amaurornis phoenicurus	RB/C
Family: Recurvirostridae		
Avocet	Recurvirostra avosetta	WM/UC
Black Winged Stilt	Himantopus himantonus	RB/C
Family: Strigidae		
Barn Owl	Tyto alba	RB/R
Barred Owlet	Glaucidium cuculoides	RB/UC
Great Horned Owl (Eagle Owl)	Bubo bubo	RB/UC
Jungle Owlet	Glaucidium radiatum	RB/C
Spotted Owlet	Athene brama	RB/UC
Family: Sturnidae		
Bank Myna	Acridotheres ginginianus	RB/C
Common Myna	Acridotheres tristis	RB/C
Common Starling	Sturnus vulgaris	WM/C
Jungle Myna	Acridotheres fuscus	RB/UC
Family: Tadorna		
Common Shelduck	Tadorna tadorna	WM/UC
Family: Threskiornithidae		
Black Headed Ibis	Threskiornis melanocephalus	WM/C

Black Ibis (Nanjal)	Pseudibis papillosa	RB/C
Spoonbill (Nanjal)	Platalea leucorodiu	WM/R
Family: Timalinae		
Jungle Babbler (Seven Sisters)	Turdoides striatus	RB/C
Striated Babbler	Turdoides earlei	IB/R
White Throated Laughing-Thrush	Garrulax albogularis :	WM/R
Family: Turnicidae		
Barred Button Quail	Tumix suscitator	RB/R
Family: Upupidae		
Ноорое	Upupa epops	RB/C

RB= Resident breeders, S= Sporadic, WM= Winter migrant, UC= Uncommon, R= Rare, C= Common

Perspective (XIX-XXI, 1999), Indian Society of Remote Sensing, Banglore.

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