PONG WETLAND





MS. SHUBRA RANDHAWA

H.P. STATE CENTRE ON CLIMATE CHANGE

UNDER THE AEGIS OF STATE COUNCIL FOR SCIENCE, TECHNOLOGY & ENVIRONMENT B-34, SDA COMPLEX, KASUMPTI, SHIMLA-9, H.P.

OVERVIEW OF WETLANDS

Wetlands are the most productive ecosystem in the world, comparable to rain forests and coral reefs. They are repositories of diverse species of microbes, plants, insects, amphibians, reptiles, birds, fish and mammals. The ideal climate, landscape (topology), geology, movement and abundance of water helps the flora and fauna inhabiting the wetland ecosystems. Wetlands are *"Biological Supermarkets"*, which provide immense food that attracts many animal species for completion of their life-cycle. The decaying dead plants and animals in the wetlands are converted by bacteria into organic matter (detritus) that are fed by many small aquatic insects, shellfishes and small fishes that are food for larger predatory fishes, reptiles, amphibians, birds and mammals.

Wetlands are the ecosystems infused with aquatic, semi aquatic as well as terrestrial characteristics. As the name suggests, these are such places which are mainly characterised by the presence of water, unique soils that differ from adjacent uplands and vegetation (hydrophytes) adapted to the wet conditions and conversely are characterised by the absence of flood tolerant vegetation (*Mitsch & Gosselink, 1986*). Wetlands cover about 6% of the world's total land surface.

Ramsar convention defined wetlands as "areas of marsh, fen, peat land or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, including areas of marine water the depth of which at low tide does not exceed six metres". These include estuaries, deltas, bogs, streams, ponds, reservoirs etc. Wetlands are among the world's most productive environments. They are "*Cradles of Biological Diversity*", providing the water and primary productivity upon which countless species of plants and animals depend for survival. They support high concentrations of birds, mammals, reptiles, amphibians, fish and invertebrate species. Wetlands are also important storehouse of plant genetic material. Rice, for example, which is a common wetland plant, is the staple diet of more than half of humanity. Wetlands provide tremendous economic benefits, for example: water supply (quantity and quality); fisheries (over two third of the world's fish harvest is linked to the health of coastal and inland wetland areas); agriculture, through the maintenance of water tables and nutrient retention in floodplains; timber production; energy resources, such as peat and plant matter; wildlife resources; transport; and recreation and tourism opportunities.

The Ministry of Environment and Forest, Government of India, prepared "Directory of Wetlands" in 1988 and a document "Conservation of wetlands in India" in 1990. As per the directory, so far a total area of 4,049,373 hectare has been designated as main wetlands in the country. This forms only about 1.23 percent of the total land surface.

LIST OF RAMSAR WETLANDS IN INDIA

Sr. No.	NAME OF THE WETLAND	DATE OF DESIGNATION	STATE	AREA (HACTARE)	COORDINATES
1.	Ashtamudi Wetland	19/08/02	Kerala	61,400	08°57'N076°35'E
2.	Bhitarkanika Mangroves	19/08/02	Orissa	65,000	20°39'N086°54'E
3.	Bhoj Wetland	19/08/02	Madhya Pradesh	3,201	23°14'N077°20'E
4.	Chilika Lake	01/10/81	Orissa	116,500	19°42'N085°21'E
5.	Deepor Beel	19/08/02	Assam	4,000	26°08'N091°39'E
6.	East Calcutta Wetlands	19/08/02	West Bengal	12,500	22°27'N088°27'E
7.	Harike Lake	23/03/90	Punjab	4,100	31°13'N075°12'E
8.	Kanjli	22/01/02	Punjab	183	31°25'N075°22'E
9.	Keoladeo National Park	01/10/81	Rajasthan	2,873	27°13'N077°32'E
10.	Kolleru Lake	19/08/02	Andhra Pradesh	90,100	16°37'N081°12'E
11.	Loktak Lake	23/03/90	Manipur	26,600	24°26'N093°49'E
12.	Point Calimere Wildlife & Bird Sanctuary	19/08/02	Tamil Nadu	38,500	10°19'N079°38'E
13.	Pong Dam Lake	19/08/02	Himachal Pradesh	15,662	32°01'N076°05'E
14.	Ropar	22/01/02	Punjab	1,365	31°01'N076°30'E
15.	Sambhar Lake	23/03/90	Rajasthan	24,000	27°00'N075°00'E
16.	Sasthamkotta Lake	19/08/02	Kerala	373	09°02'N076°37'E
17.	Tsomoriri	19/08/02	Jammu & Kashmir	12,000	32°54'N078°18'E
18.	Vembanad-Kol Wetland	19/08/02	Kerala	151,250	09°50'N076°45'E
19.	Wular Lake	23/03/90	Jammu & Kashmir	18,900	34°16'N074°33'E

Source: <u>www.ramsar.org</u>



AREA ESTIMATES OF WETLANDS IN HIMACHAL PRADESH

(Area in hectare)

Sr. No.	WETTCODE	WETLAND CATEGORY	NUMBER OF	TOTAL WETLAND	% OF WETLAND	OPEN	WATER
110.			WETLANDS	AREA	AREA	POST- MONSOON AREA	PRE- MONSOON AREA
	1100	INLAND WETLAN	DS - NATUR	AL			
1	1101	Lakes/Ponds	8	52	0.05	49	26
2	1102	Ox-bow lakes/ Cut- off meanders	-	-	-	-	-
3	1103	High altitude wetlands	42	387	0.39	285	128
4	1104	Riverine wetlands	-	-	-	-	-
5	1105	Waterlogged	10	47	0.05	39	19
6	1106	River/Stream	67	55558	56.41	27153	17063
	1200	INLAND WETLAN	DS -MAN-M	ADE			
7	1201	Reservoirs/Barrages	13	41817	42.46	41445	31966
8	1202	Tanks/Ponds	27	134	0.14	106	29
9	1203	Waterlogged	3	30	0.03	30	14
10	1204	Salt pans	-	-	-	-	-
		TOTAL - INLAND	170	98025	99.25	69107	49245
		Wetlands (<2.25 ha)	471	471	0.48	-	-
		TOTAL	641	98496	100.00	69107	49245

AREA UNDER AQUATIC VEGETATION	-	5294
Area under turbidity levels		
Low	46870	33949
Moderate	22236	15296
High	-	-

Source: National Wetland Atlas: Himachal Pradesh

INTRODUCTION

Himachal Pradesh is nature's paradise, replete with beautiful landscapes, river catchment sand forest wealth. A hill state, part of the Hindu-Kush Himalayas, it abounds in natural herbal wealth, has a large population of wildlife and varied climatic zones and topography. The hilly and semi hilly areas are capable of sustaining a very large number of animal species and globally threatened birds.

	DISTRICT-WISE WETLAND AREA OF HIMACHAL PRADESH				
Sr. No.	DISTRICT	GEOGRAPHIC AREA	WETLAND AREA	% OF TOTAL WETLAND AREA	% OF DISTRICT GEOGRAPHIC AREA
		(sq. km)	(ha)		
1	Bilaspur	1167	12407	12.60	10.63
2	Chamba	6528	4667	4.74	0.71
3	Hamirpur	1118	2182	2.22	1.95
4	Kangra	5739	34605	35.13	6.03
5	Kinnaur	6401	4990	5.07	0.78
6	Kullu	5503	2894	2.94	0.53
7	Lahul & Spiti	13835	10766	10.93	0.78
8	Mandi	3950	3704	3.76	0.94
9	Shimla	5131	2368	2.40	0.46
10	Sirmaur	2825	9990	10.14	3.54
11	Solan	1936	2720	2.76	1.40
12	Una	1540	7203	7.31	4.68
	TOTAL	55673	98496	100	1.77

Source: National Wetland Atlas: Himachal Pradesh

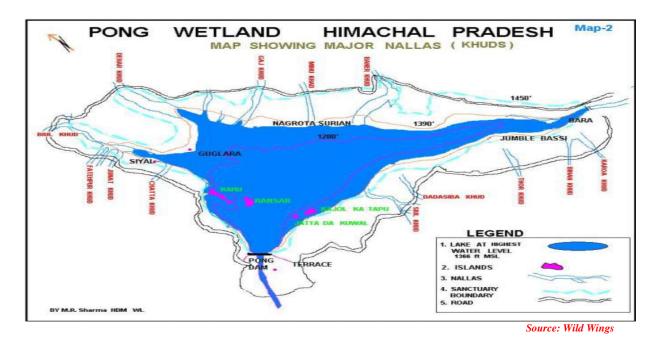
PONG WETLAND

Pong wetland, situated in the Kangra District of Himachal Pradesh, is one of the largest man- made wetland of the Northern India formed by the construction of Pong Dam during 1974 across the Beas River. This wetland is the first major wetland which potentially offers a transitory resting reserve for the migratory birds coming from the Trans



Himalayan zone in the winter season when the wetlands in the Europe and North and Central Asia become frozen due to onset of winters. Flocks of waterfowls that breed in these areas in summer undertake migration to Pong to spend winter in more congenial climatic conditions every year during the winter season from October to March.

The total catchments area of 12562 Sq.km. extends in Kangra, Mandi and Kullu Districts. This reservoir is 42 Km long and 19 Km wide and having live storage capacity of 7290 million cum. The area of water body varies from 125 Sq Km at minimum water level at 1280 ft in summer season to about 220 Sq Km at the maximum water level of 1390 Feet in rainy season and also leaving behind the maximum draw down area of about 80 Sq Km.



THE RAMSAR CRITERIA FOR IDENTIFYING WETLANDS OF INTERNATIONAL IMPORTANCE

As adopted by the 4th, 6th & 7th meetings of the conference of the Contracting Parties to the convention on Wetlands (*Ramsar*, *Iran*, *1971*) to guide implementation of Article 2.1 on designation of Ramsar sites.

Group A of the Criteria. Sites containing representatives, rare or unique wetland types

Criterion 1: A wetland should be considered internationally important if it contains a representative, rare, or unique example of a natural or near natural wetland type found within the appropriate bio geographic region.

Group B of the Criteria. Sites of international importance for conserving biological diversity

Criteria based species and ecological communities

Criterion 2: A wetland should be considered internationally important if it supports vulnerable, endangered or critically endangered species or threatened ecological communities.

Criterion 3: A wetland should be considered internationally important if it supports population of plant and / or animal species important for maintaining the biological diversity of a particular bio geographic region.

Criterion 4: A wetland should be considered internationally important if it supports plant and / or animal species at a critical stage in their life cycles, or provides refuge during adverse conditions.

Specific criteria based on water birds

Criterion 5: A wetland should be considered internationally important if it regularly supports 20,000 or more water birds.

Criterion 6: A wetland should be considered internationally important if it regularly supports 1% of the individuals in a population of one species or sub species of water bird.

Species criteria based on fish

Criterion 7: A wetland should be considered internationally important if it supports a significant proportion of indigenous fish sub species, species or families, life history stages, species interactions and/ or population that are representative of wetland benefits and/ or values and thereby contributes to global biological diversity.

Criterion 8: A wetland should be considered internationally important if it is an important source of food for fish, spawning ground, nursery and/ or migration path on which fish stocks, either within the wetland or elsewhere, depends.

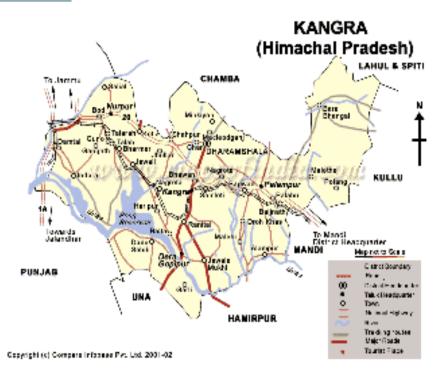
Source: <u>www.ramsar.org</u>

PONG GETS GLOBAL STATUS

The wetland earned the distinction of being among the global class of selected Sites . This is first wetland of the state to have got the global arm of protection and declared a "**RAMSAR SITE**" in the year 2002.

Dhauladhar Mountains are feeder of water supply to Pong Lake.

Below Pong dam, a barrage was constructed during 1985-86 at Sathana. From this barrage, Sahanahar canal originates. The total distance of Pong to Barrage is about 4 Km. This barrage constitutes a shallow water body enclosing about 3 Sq Km .The



area, is a heaven for a variety of migratory birds specific to marshy conditions.

CLIMATE

The climate of the region is sub-tropical. The summer season extends from mid-March to mid July and the monsoon season is from early July to mid-September. Winters are mild, starting in early December and lasting till mid-March. The temperatures range from a maximum 47°C in summer to a low of 3.5°C in winter. The rainfall is generally heavy and continuous from July to September. The average annual rainfall during the last five years was 1,207 mm.

ZONATION

The sanctuary area is divided into different zones keeping in view the objectives of the management plan such as:

- i) Core zone Conservation zone Up to 1400msl (Level may be increased in future keeping in view increasing water level)
- ii) Rehabilitation zone -1400msl to 1450msl
- iii) Multiple Use zone-Buffer zone
- iv) Tourism zone-Overlapping zone

PONG WETLAND SANCTUARY

Pong wetland earned the distinction of being selected as an international RAMSAR site in 2002. This is first wetland of the state to have been given the global arm of protection. The Pong dam reservoir extends between latitudes 31°49' to 32°14' North and longitudes 75°53' to76°17' East. The total catchment area of 12,562km² extends over Kangra, Mandi and Kullu Districts. The reservoir is 42 km long and 19 km wide and has live storage capacity of 7,290 million m³. The area of the water body varies from 125 km² at minimum water level of 1,265-1,280 ft in summer to about 225 km² at the maximum water level of 1,370-1,390 ft in the rainy season. When full, the reservoir has the appearance of an inland sea with waves traveling to the shoreline.

The environs of Pong wetland support more than 415 bird species belonging to more than 60 families. A large number of major and minor tributaries –some perennial and some seasonal, viz Dehar,Bhul, Gaj, Baner, Nekar, etc. from the Dhauladhar ranges – directly drain into Pong Dam. The Pong reservoir has four major islands, viz Rancer, Karu, Kajal-ka-tapu and Jattaan da Kual.

SIGNIFICANCE OF PONG WETLAND

The wetland has an immense untapped potential for bird watching, camping, water sports, nature/heritage tourism and other multifarious recreational activities. Rare species like Vultures, Falcons, Indian Skimmer, Red Necked Grebes, White Fronted Geese and many Waders have been recorded in the wetland. Bar Headed Geese visiting pong in large number constitutes more than 40 % of the world population. This makes the Pong wetland, the largest single congregation destination for Bar Headed Geese not only in India but also in the world.

The wetland provides comforts, environmental stimulation and the kind of tranquility, the tourists look for. Five beautiful islands inside the lake offer temptations to feel them closely and enjoy the nature. It is a unique wetland whose potential has yet not been exploited at all. The fully developed wetland will not only be the dream habitat for lakhs of birds but also a dream destination for millions of national and international tourists with immense revenue generation potential.

Places of cultural and mythological importance in and around pong add significant and spiritual value to the wetland. The wetland can be a source of inspiration for the poets and artists alike.

Prior to the impoundment of the river Beas, a subsistence fishery of inconsequential nature existed in the river and adjoining streams. But, with the creation of the Pong reservoir, a lucrative fishery started attracting large number of fishermen and the ousters who had no other viable means of livelihood. The commercial fishing in the reservoir started soon after. The total catch during the first year of fishing

operation was 98 Metric tons and has increased progressively till 1987-88 when it attained a peak of 779 metric tons. Pong dam is probably the only reservoir in the country, which provides opportunity of Mahasheer angling.

ENVIRONMENTAL CONCERNS

The analysis of oxygen demand may not be too unfavorable at the moment, but if unplanned/unregulated habitat extension and habitat improvement works are carried out then the dissolved oxygen content may decrease. The aquatic plants in the main wetland have already decreased, which may not be helpful in increasing the dissolved oxygen content in the future. The temperature of the lake sometimes rises up to 47°Cduring the summer season and that may also reduce the oxygen concentration in the water body. The movement of boats in the lake might to some extent be helping to increasing the dissolved oxygen content. Chemical analysis of lake water has to be carried out yearly to determine the pollutant load and water quality, otherwise all the management interventions carried out in Pong lake may turn out to be futile.

As this wetland is glacier-fed, the impact of global warming on the wetland has to be considered and the effects of construction of new dams above streams, diversion of water for drinking, irrigation and hydropower, etc., has to be analyzed. Local cattle and the cattle of gujjars in the Pong must be immunized and registered with local authorities to prevent outbreaks of various diseases.

Socio-economics

Fish population and fish diversity is one area that needs improvement in Pong Lake, as is preserving the breeding grounds of various fish in the Greater Pong since the fish generally breed upstream outside of the main Pong wetland. All fishing should cease during the bird migration season (December to March) and the fishermen may be compensated. It is very important to determine the dependency level of the 26,000 people living in the sanctuary and the 11,500 domestic cattle in order to develop a prevention mechanism through protection and enhancing awareness about the importance of this fragile ecosystem.

OTHER CONCERNS

Other areas which need attention include:

- treatment of nallahs/khads in buffer zone;
- soil types silt load;
- erosion;
- study of pressure, temperature and wind direction;
- biotic interference;
- Quarrying outside the protected area;
- rain gauge to measure the precipitation;
- strengthening the infrastructure and communication facilities;

CHECKLIST OF BIRD SPECIES RECORDED IN PONG LAKE SANCTUARY

SERIAL	COMMON NAMES	SCIENTIFIC NAMES	FAMILY
NO.			
1.	Small Pratincole	Glareola lactea	Glareolidae
2.	Oriental Pratincole	Glareola maldivarum	Glareolidae
3.	Lesser Kestrel	Falco naumanni	Falconidae
4.	Peregrine Falcon	Falco peregrines	Falconidae
5.	Eurasian Hobby	Falco subbuteo	Falconidae
6.	Common Kestrel	Falco tinnunculus	Falconidae
7.	Oriental Hobby	Falco severus	Falconidae
8.	Merlin	Falco columbarius	Falconidae
9.	Laggar Falcon	Falcon jugger	Falconidae
10.	House Swift	Apus affinis	Apodini
11.	Alpine Swift	Tachymarptis melba	Apodini
12.	Himalayan Swiftlet	Collocalia brevirostris	Collocaliini
13.	Indian Grey- Hornbill	Ocyceros birostris	Bucerotidae
14.	Black Winged Kite	Elanus caeruleus	Accipitridae
15.	Oriental Honey –buzzard	Pernis ptilorhyncus	Accipitridae
16.	Black Kite	Milvus migrans	Accipitridae
17.	Brahminy Kite	Haliastur Indus	Accipitridae
18.	Shikra	Accipiter badius	Accipitridae
19.	Northern Goshawk	Accipiter gentilis	Accipitridae
20.	Eurasian Sparrowhawk	Accipiter nisus	Accipitridae
21.	Besra	Accipiter virgatus	Accipitridae
22.	Common Buzzard	Buteo buteo	Accipitridae
23.	Long Legged Buzzard	Buteo hemilasius	Accipitridae
24.	White Eyed Buzzard	Butastur teesa	Accipitridae
25.	Booted Eagle	Hieraaetus pennatus	Accipitridae
26.	Greater Spotted Eagle	Aquila clanga	Accipitridae
27.	Steppe Eagle	Aquila nipalensis	Accipitridae
28.	Tawny Eagle	Aquila rapax	Accipitridae
29.	Black Eagle	Ictinaetus malayensis	Accipitridae
30.	Cinereous vulture	Aegypius monachus	Accipitridae
31.	Red headed vulture	Sarcogyps calvus	Accipitridae
32.	White Rumped vulture	Gyps bengalensis	Accipitridae
33.	Eurasian Griffon	Gyps fulvus	Accipitridae
34.	Himalayan Griffon	Gyps himalayensis	Accipitridae
35.	Long- billed vulture	Gyps indicus	Accipitridae

36.	Egyptian Vulture	Neophron percnopterus	Accipitridae
37.	Pallid Harrier	Circus macrourus	Accipitridae
38.	Pied harrier	Circus melanoleucos	Accipitridae
39.	Hen harrier	Circus cyaneus	Accipitridae
40.	Eurasian Marsh Harrier	Circus aeruginosus	Accipitridae
41.	Crested serpent Eagle	Spilornis cheela	Accipitridae
42.	Osprey	Pandion haliaetus	Accipitridae
43.	Short- toed Snake Eagle	Circaetus gallicus	Accipitridae
44.	Bonelli's Eagle	Hieraaetus fasciatus	Accipitridae
45.	Oriental Darter	Anhinga melanogaster	Accipitridae
46.	Barheaded Goose	Anser indicus	Anitadae
47.	Greylag Goose	Anser anser	Anitadae
48.	Greater White Fronted Goose	Anser albifrons	Anitadae
49.	Northern pintail	Anas acuta	Anitadae
50.	Common Teal	Anas crecca	Anitadae
51.	Spotbilled duck	Anas poecilorhyncha	Anitadae
52.	Northern Shovller	Anas clypeata	Anitadae
53.	Garganey	Anas querquedula	Anitadae
54.	Mallard	Anas platyrhynchos	Anitadae
55.	Eurasian Wigeon	Anas penelope	Anitadae
56.	Gadwall	Anas strepera	Anitadae
57.	Ruddy Shelduck	Tadorna tadorna	Anitadae
58.	Common Pochard	Aythya ferina	Anitadae
59.	Tufted duck	Aythya fuligula	Anitadae
60.	Red Crested Pochard	Rhodoness rufina	Anitadae
61.	Ferruginous Pochard	Aythya nyroca	Anitadae
62.	Greater Scaup	Aythya marila	Anitadae
63.	Common Merganser	Mergus merganser	Anitadae
64.	Lesser Whistling duck	Dendrocygna javanica	Anitadae
65.	Common Shelduck	Tadorna tadorna	Anitadae
66.	Cotton Pygmy Goose	Nettapus coromandelianus	Anitadae
67.	Grey Heron	Ardea cinerea	Ardeidae
68.	Purple Heron	Ardea purpurea	Ardeidae
69.	Indian Pond heron	Ardeola grayii	Ardeidae
70.	Cattle Egret	Bubulcus ibis	Ardeidae
71.	Great Egret	Casmerodius albus	Ardeidae
72.	Little Egret	Egretta garzetta	Ardeidae
73.	Western Reef Egret	Egretta gularis	Ardeidae

74.	Black Bittern	Ixobrychus flavicollis	Ardeidae
75.	Yellow Bittern	Ixobrychus sinensis	Ardeidae
76.	Cinnamon Bittern	Ixobrychus cinnamomeus	Ardeidae
77.	Intermediate Egret	Mesophoyx intermedia	Ardeidae
78.	Black Crowned Night Heron	Nycticorax nycticorax	Ardeidae
79.	Eurasian Thick Knee	Burhinus oedicnemus	Burhinidae
80.	Great Thick Knee	Burhinus recurvirostris	Burhinidae
81.	Kentish Plover	Charadrius alexandrinus	Charadriidae
82.	Little Ring Plover	Charadrius dubius	Charadriidae
83.	Common Ringed Plover	Charadrius hiaticula	Charadriidae
84.	Eurasian Oystercatcher	Haematopus ostralegus	Charadriidae
85.	Black Winged Stilt	Himantopus himantopus	Charadriidae
86.	Grey Plover	Pluvialis squatarola	Charadriidae
87.	River Lapwing	Vanellus duvaucelii	Charadriidae
88.	Pacific Golden Plover	Pluvialis fulva	Charadriidae
89.	Red Wattled Lapwing	Vanellus indicus	Charadriidae
90.	White tailed Lapwing	Vanellus leucurus	Charadriidae
91.	Yellow Wattled Lapwing	Vanellus malbaricus	Charadriidae
92.	Northern Lapwing	Vanellus vanellus	Charadriidae
93.	Lesser Sand Plover	Charadrius mongolus	Charadriidae
94.	Greater Sand Plover	Charadrius leschenaultia	Charadriidae
95.	Long Billed Plover	Charadrius placidus	Charadriidae
96.	Oriental Plover	Charadrius veredus	Charadriidae
97.	Asian Openbill	Anastomus oscitans	Ciconiidae
98.	Woolly -necked Stork	Ciconia episcopus	Ciconiidae
99.	Black Stork	Ciconia nigra	Ciconiidae
100.	Black- necked Stork	Ephippiorhynchus asiaticus	Ciconiidae
101.	Painted Stork	Mycteria leucocephala	Ciconiidae
102.	Pheasant Tailed jacana	Hydrophasianus chirurgus	Jacanidae
103.	Whiskered Tern	Chlidonias hybridus	Laridae
104.	Brown Headed Gull	Larus brunnicephalus	Laridae
105.	Yellow Legged Gull	Larus cachinnans	Laridae
106.	Mew Gull	Larus canus	Laridae
107.	Slender – billed Gull	Larus genei	Laridae
108.	Pallas Gull	Larus ichthyaetus	Laridae
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109.	Black headed Gull	Larus ridibundus	Laridae
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112.	Black bellied Tern	Sterna acuticauda	Laridae
113.	River Tern	Sterna aurantia	Laridae
114.	Gull- billed Tern	Sterna nilotica	Laridae
115.	Little Tern	Sterna albifrons	Laridae
116.	Great Cormorant	Phalacrocorax carbo	Phalacrocoracidae
117.	Indian Cormorant	Phalacrocorax fuscicollis	Phalacrocoracidae
118.	Little Cormorant	Phalacrocorax niger	Phalacrocoracidae
119.	Great Crested Grebe	Podiceps cristatus	Podicipedidae
120.	Red necked Grebe	Podiceps grisegena	Podicipedidae
121.	Black necked Grebe	Podiceps nigricollis	Podicipedidae
122.	Little Grebe	Tachybaptus ruficollis	Podicipedidae
123.	Ruddy Turnstone	Arenaria interpres	Scolopacidae
124.	Dunlin	Calidris alpine	Scolopacidae
125.	Curlew Sandpiper	Calidris ferruginea	Scolopacidae
126.	Little Stint	Calidris minuta	Scolopacidae
127.	Temminck's Stint	Calidris temmonckii	Scolopacidae
128.	Common Snipe	Gallinago gallinago	Scolopacidae
129.	Greater Painted Snipe	Rostratula benghalensis	Scolopacidae
130.	Pintail Snipe	Gallinago stenura	Scolopacidae
131.	Solitary Snipe	Gallinago solitaria	Scolopacidae
132.	Jack Snipe	Lymnocryptes minimus	Scolopacidae
133.	Black tailed Godwit	Limosa limosa	Scolopacidae
134.	Eurasian Curlew	Numenius arquata	Scolopacidae
135.	Whimbrel	Numenius phaeopus	Scolopacidae
136.	Red Necked Phalarope	Phalaropus fulicaria	Scolopacidae
137.	Ruff	Philomachus pugnax	Scolopacidae
138.	Terek Sandpiper	Tringa cinerea	Scolopacidae
139.	Spotted Redshank	Tringa erythropus	Scolopacidae
140.	Wood Sandpiper	Tringa glareola	Scolopacidae
141.	Common Sandpiper	Tringa hypoleucos	Scolopacidae
142.	Common Greenshank	Tringa nebularia	Scolopacidae
143.	Green Sandpiper	Tringa ochropus	Scolopacidae
144.	Marsh Sandpiper	Tringa stagnatilis	Scolopacidae
145.	Broad Billed Sandpiper	Limicola falcinellus	Scolopacidae
146.	Common Redshank	Tringa totanus	Scolopacidae
147.	Sanderling	Calidris alba	Scolopacidae
148.	Long Toed Stint	Callidris subminuta	Scolopacidae

150.	Grey tailed Tattler	Heteroscelus brevipes	Scolopacidae
151.	Sharp Tailed Sandpiper	Calidris acuminate	Scolopacidae
152.	Rock Pigeon	Columba livia	Columbidae
153.	Common Wood Pigeon	Columba palumbus	Columbidae
154.	Spotted Dove	Streptopelia chinensis	Columbidae
155.	Eurasian Collared Dove	Streptopelia decaocto	Columbidae
156.	Oriental Turtle Dove	Streptopelia orientalis	Columbidae
157.	Laughing Dove	Streptopelia senegalensis	Columbidae
158.	Red Collared Dove	Streptopelia tranquebarica	Columbidae
159.	Emerald Dove	Chalcophaps indica	Columbidae
160.	Yellow- Footed- Green- Pigeon	Treron phoenicoptera	Treroninae
161.	Common Kingfisher	Alcedo atthis	Alcedinidae
162.	Pied Kingfisher	Ceryle rudis	Cerylidae
163.	Crested Kingfisher	Megaceryle lugubris	Cerylidae
164.	White- throated Kingfisher	Halcyon smyrnensis	Halcyonidae
165.	Indian Roller	Coracias benghalensis	Coraciidae
166.	Europian Roller	Coracias qarrulus	Coraciidae
167.	Little Green Bee-eater	Merops orientalis	Meropidae
168.	Blue-tailed Bee-eater	Merops philippinus	Meropidae
169.	Greater Coucal	Centropus sinensis	Centropodidae
170.	Eurasian Cuckoo	Cuculus canorus	Cuculidae
171.	Indian Cuckoo	Cuculus micropterus	Cuculidae
172.	Common Hawk Cuckoo	Cuculus varius	Cuculidae
173.	Asian Koel	Eudynamys scolopacea	Cuculidae
174.	Pied Cuckoo	Oxylophus jacobinus	Cuculidae
175.	Grey Bellied Cuckoo	Cacomantis passerines	Cuculidae
176.	Lesser Cuckoo	Cuculus poliocephalus	Cuculidae
177.	Sirkeer Malkoha	Phaenicophacus leschenaultia	Cuculidae
178.	Common Quail	Coturnix coturnix	Phasianidae
179.	Black Francolin	Francolinus francolinus	Phasianidae
180.	Grey Francolin	Francolinus pondicerianus	Phasianidae
181.	Red Junglefowl	Gallus gallus	Phasianidae
182.	Indian Peafowl	Pavo cristatus	Phasianidae
183.	Jungle Bush- Quail	Perdicula asiatica	Phasianidae
184.	Rain Quail	Coturnix coromandelica	Phasianidae
185.	Khaliz Pheasant	Lophura leucomelanos	Phasianidae
185. 186.	Khaliz Pheasant Barred Button Quail	Lophura leucomelanos Turnix suscitator	Phasianidae Phasianidae

191.Common192.Ballion's193.Common194.Purple Sv195.Water Ra196.Eurasian197.Oriental S198.Lesser Sh199.Greater S200.Indian Sh201.Ashy Crossed L202.Crested L203.Bimacula204.Singing L	reasted Waterhen a Coot coot crake a Moorhen wamphen ail Skylark Skylark Skylark Short toed Lark hort toed Lark owned Sparrow Lark Lark ated Lark	Grus virgo Amaurornis akool Amaurornis phoenicurus Fulica atra Porzana pusilla Gallinula chloropus Porphyrio porphyrio Rallus aquaticus Alauda arvensis Alauda gulgula Calandrella rufescens Calandrella rufescens Calandrella raytal Eremopterix grisea Galerida cristata Melanocorypha bimaculata	Gruidae Rallidae Rallidae Rallidae Rallidae Rallidae Rallidae Rallidae Rallidae Rallidae Alaudidae Alaudidae Alaudidae Alaudidae Alaudidae Alaudidae Alaudidae Alaudidae
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203.Bimacula204.Singing I	ated Lark		
204. Singing I		Melanocorypha bimaculata	
	Lark		Alaudidae
205 Dangel P	Burk	Mirafra cantillans	Alaudidae
205. Deligai D	Bush Lark	Mirafra assamica	Alaudidae
206. Humes S	hort Toed Lark	Calandrella acutirostris	Alaudidae
207. Indian Bu	ush Lark	Mirafra erythroptera	Alaudidae
208. Bar tailed	d Tree Creeper	Certhia himalayana	Certhiidae
209. Rufous- f	fronted Prinia	Prinia buchanani	Cisticolidae
210. Zitting C	listicola	Cisticola juncidis	Cisticolidae
211. Striated F	Prinia	Prinia criniger	Cisticolidae
212. Yellow b	ellied Prinia	Prinia flaviventris	Cisticolidae
213. Grey Bre	easted Prinia	Prinia hodgsonii	Cisticolidae
214. Plain Prin	nia	Prinia inornata	Cisticolidae
215. Ashy Prin	nia	Prinia socialis	Cisticolidae
216. Jungle Pr	rinia	Prinia sylvatica	Cisticolidae
217. Graceful	Prinia	Prinia gracilis	Cisticolidae
218. Common	ı Iora	Aegithina tiphia	Corvidae
219. Large Cu	ickoo- shrike	Coracina macei	Corvidae
220. Black- he	eaded Cuckoo Shrike	Coracina melanoptera	Corvidae
221. Black win	nged Cuckoo Shrike	Coracina melaschistos	Corvidae
222. Common	n Raven	Corvus corax	Corvidae
223. Large-bil	lled Crow	Corvus macrorhynchos	Corvidae
224. House Cr	row	Corvus splendens	Corvidae
225. Spangled	l Drongo	Dicrurus hottentottus	Corvidae

226.	Rufous Treepie	Dendrocitta vagabunda	Corvidae
227.	Ashy Drongo	Dicrurus leucophaeus	Corvidae
228.	Black Drongo	Dicrurus macrocercus	Corvidae
229.	Eurasian Golden Oriole	Oriolus oriolus	Corvidae
230.	Small Minivet	Pericrocotus cinnamomeus	Corvidae
231.	Long tailed Minivet	Pericrocotus ethologus	Corvidae
232.	Rosy Minivet	Pericrocotus roseus	Corvidae
233.	White-throated Fantail	Rhipidura albicollis	Corvidae
234.	White- browed Fantail	Rhipidura aureola	Corvidae
235.	Yellow bellied Fantail	Rhipidura hypoxantha	Corvidae
236.	Common Woodshrike	Tephrodornis pondicerianus	Corvidae
237.	Asian Paradise Flycatcher	Terpsiphone paradisi	Corvidae
238.	Red Billed Blue Magpie	Urocissa erythrorhyncha	Corvidae
239.	Yellow Billed Blue Magpie	Urocissa flavirostris	Corvidae
240.	Europian Goldfinch	Carduelis carduelis	Fringillidae
241.	Yellow Breasted Greenfinch	Carduelis spinoides	Fringillidae
242.	Common Rosefinch	Carpodacus erythrinus	Fringillidae
243.	Pine Bunting	Emberiza leucocephalos	Fringillidae
244.	Rock Bunting	Emberiza cia	Fringillidae
245.	Crested Bunting	Melophus lathami	Fringillidae
246.	White Capped Bunting	Emberiza stewarti	Fringillidae
247.	Fire Fronted Serin	Serinus pusillus	Fringillidae
248.	Eurasian Linnet	Carduelis cannabina	Fringillidae
249.	Red rumped Swallow	Hirundo daurica	Hirundinidae
250.	Streak throated Swallow	Hirundo fluvicola	Hirundinidae
251.	Barn Swallow	Hirundo rustica	Hirundinidae
252.	Wire- tailed Swallow	Hirundo smithii	Hirundinidae
253.	Plain Martin	Riparia paludicola	Hirundinidae
254.	Pale Martin	Riparia diluta	Hirundinidae
255.	Eurasian Crag Martin	Hirundo rupestris	Hirundinidae
256.	Brown Shrike	Lanius cristatus	Hirundinidae
257.	Rufous-tailed Shrike	Lanius isabellinus	Laniidae
258.	Long -tailed Shrike	Lanius schach	Laniidae
259.	Bay- Backed Shrike	Lanius vittatus	Laniidae
260.	Grey-backed Shrike	Lanius tephronotus	Laniidae
261.	Southern Grey Shrike	Lanius meridionalis	Laniidae
262.	Indian Chat	Cercomela fusca	Muscicapidae
263.	White- capped Water Redstart	Chaimarrornis leucocephalus	Muscicapidae

264. Oriental Magpie Robin Copsychus saularis Muscicapidae 265. Grey-headd Canary Flycatcher Cyloris rabeculoides Muscicapidae 266. Blue-throated Flycatcher Cyornis rabeculoides Muscicapidae 267. Verditer Flycatcher Ficedula parva Muscicapidae 268. Red-throated Flycatcher Ficedula parva Muscicapidae 269. Slaty-blue Flycatcher Ficedula parva Muscicapidae 270. Indian Blue Robin Luschia petrafens Muscicapidae 271. White-tailed Rubythroat Luschia vecica Muscicapidae 272. Ultramarine Flycatcher Ficedula supercitaris Muscicapidae 273. Blue Rock- Thrush Monticola solitarias Muscicapidae 274. Blue Cock Thrush Monticola nifventris Muscicapidae 275. Blue Whistling-Thrush Mytophonus caeruleus Muscicapidae 276. Blue Capped Rock Thrush Monticola nifventris Muscicapidae 277. Chestnut-bellied Rock Thrush Monticola nifventris Muscicapidae 278. Asian Brown Flycatcher Muscicapi dae Muscicapidae 278. Asian Brown Flycatcher Muscicapi dae Muscicapidae 280.				
266. Blue-throated Flycatcher Cyornis rubeculoides Muscicapidae 267. Verditer Flycatcher Eunyias thalassina Muscicapidae 268. Red-throated Flycatcher Ficedula parva Muscicapidae 269. Slaty-blue Flycatcher Ficedula tricolor Muscicapidae 270. Indian Blue Robin Luscinia brunnea Muscicapidae 271. White-tailed Rubythroat Luscinia byecraftens Muscicapidae 272. Ultramarine Flycatcher Ficedula supercillaris Muscicapidae 273. Bluethroat Luscinia svecica Muscicapidae 274. Blue Rock- Thrush Monticola solitarius Muscicapidae 275. Blue Whistling-Thrush Monicola cincloritynchus Muscicapidae 276. Asian Brown Flycatcher Muscicapidae Muscicapidae 277. Chestnut-hellied Rock Thrush Monticola rufiventria Muscicapidae 278. Asian Brown Flycatcher Muscicapa daurica Muscicapidae 280. Rufous-bellied Nilava Niltava sundara Muscicapidae 281. Desert Wheatear Oenanthe deserti Muscicapidae 282. Isabelline Wheatear Oenanthe picata Muscicapidae 283. Variable Whe	264.	Oriental Magpie Robin	Copsychus saularis	Muscicapidae
267. Verditer Flycatcher <i>Eunyias thalassina</i> Muscicapidae 268. Red-throated Flycatcher <i>Ficedula parva</i> Muscicapidae 269. Slaty-blue Flycatcher <i>Ficedula tricolor</i> Muscicapidae 270. Indian Blue Robin <i>Luscinia pectanens</i> Muscicapidae 271. White-tailed Rubythroat <i>Luscinia pectanens</i> Muscicapidae 272. Ultramarine Flycatcher <i>Ficedula superciliaris</i> Muscicapidae 273. Blue Chost Thrush <i>Monicola solitarius</i> Muscicapidae 274. Blue Rock- Thrush <i>Monicola solitarius</i> Muscicapidae 275. Blue Capped Rock Thrush <i>Monticola colitoriynchus</i> Muscicapidae 276. Blue Capped Rock Thrush <i>Monticola rufiventris</i> Muscicapidae 277. Chestnut-bellied Rock Thrush <i>Monticola rufiventris</i> Muscicapidae 278. Asian Brown Flycatcher <i>Muscicapi dauurica</i> Muscicapidae 279. Dark Sidd Flycatcher <i>Muscicapi dae</i> Muscicapidae 280. Rufous-bellied Niltava <i>Niltava sundara</i> Muscicapidae 281. Desert Wheatear <i>Oenanthe fastarline</i> Muscicapidae 282. Isabelline Wheatear <i>Oenanthe fastarline</i>	265.	Grey- headed Canary Flycatcher	Culicicapa ceylonensis	Muscicapidae
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270.Indian Blue RobinLuscinia brunneaMuscicapidae271.White-tailed RubythroatLuscinia pectardensMuscicapidae272.Ultramarine FlycatcherFicedula superciliarisMuscicapidae273.BluethroatLuscinia svecicaMuscicapidae274.Blue Rock-ThrushMonticola solitariusMuscicapidae275.Blue Capped Rock ThrushMonticola cinclorhynchusMuscicapidae276.Blue Capped Rock ThrushMonticola cinclorhynchusMuscicapidae277.Chestnut-bellied Rock ThrushMonticola rufiventrisMuscicapidae278.Asian Brown FlycatcherMuscicapa dauricaMuscicapidae279.Dark Sided FlycatcherMuscicapia dauricaMuscicapidae280.Rufous-bellied NiltavaNiltava sundaraMuscicapidae281.Desert WheatearOenanthe desertiMuscicapidae282.Isabelline WheatearOenanthe ficataMuscicapidae283.Variable WheatearOenanthe pleschankaMuscicapidae284.Pied WheatearOenanthe pleschankaMuscicapidae285.Blue-capped RedstartPhoenicurus coerruleocephalusMuscicapidae286.Blue-fronted RedstartPhoenicurus cohrurosMuscicapidae287.Black RedstartSavicola caprataMuscicapidae288.Plumbeus Water-RedstartRhyacornis fuliginosusMuscicapidae289.Pied BushchatSavicola caprataMuscicapidae290.Grey BushchatSavicola	268.	Red-throated Flycatcher	Ficedula parva	Muscicapidae
271.White-tailed RubythroatLascinia pectardensMuscicapidae272.Ultramarine FlycatcherFicedula superciliarisMuscicapidae273.BluethroatLascinia svecicaMuscicapidae274.Blue Rock- ThrushMonticola solitariusMuscicapidae275.Blue Whistling-ThrushMyiophonus caeruleusMuscicapidae276.Blue Capped Rock ThrushMonticola rufiventrisMuscicapidae277.Chestnut-bellied Rock ThrushMonticola rufiventrisMuscicapidae278.Asian Brown FlycatcherMuscicapa daiuricaMuscicapidae279.Dark Sided FlycatcherMuscicapa sibiricaMuscicapidae280.Rufous-bellied NiltavaNiltava sundaraMuscicapidae281.Desert WheatearOenanthe desertiMuscicapidae282.Isabelline WheatearOenanthe picataMuscicapidae283.Variable WheatearOenanthe picataMuscicapidae284.Pied WheatearOenanthe picataMuscicapidae285.Blue-capped RedstartPhoenicurus caeruleocephalusMuscicapidae288.Piumbeous Water-RedstartRhyacornis fuliginosusMuscicapidae289.Pied BuschatSaxicoloida fulcataMuscicapidae280.Grey BuschatSaxicola ferreaMuscicapidae281.Dubeous Water-RedstartRhyacornis fuliginosusMuscicapidae282.IsabchindTurdus boulboulMuscicapidae283.Pied BuschatSaxicolaide fulcataMusc	269.	Slaty-blue Flycatcher	Ficedula tricolor	Muscicapidae
272.Ultramarine FlycatcherFicedula superciliarisMuscicapidae273.BluethroatLuscinia svecicaMuscicapidae274.Blue Rock- ThrushMonticola solitariusMuscicapidae275.Blue Whistling-ThrushMyiophonus caeruleusMuscicapidae276.Blue Capped Rock ThrushMonticola cinclorhynchusMuscicapidae277.Chestnut-bellied Rock ThrushMonticola rufiventrisMuscicapidae278.Asian Brown FlycatcherMuscicapa daturicaMuscicapidae279.Dark Sided FlycatcherMuscicapa sibiricaMuscicapidae280.Rufous-bellied NiltavaNiltava sundaraMuscicapidae281.Desert WheatearOenanthe desertiMuscicapidae282.Isabelline WheatearOenanthe isabellineMuscicapidae283.Variable WheatearOenanthe pleschankaMuscicapidae284.Pied WheatearOenanthe pleschankaMuscicapidae285.Blue-capped RedstartPhoenicurus caeruleocephalusMuscicapidae286.Blue-capped RedstartPhoenicurus sochrurosMuscicapidae287.Black RedstartPhoenicurus sochrurosMuscicapidae288.Plumbeous Water-RedstartRhyacornis fuliginosusMuscicapidae289.Pied BushchatSaxicola caprataMuscicapidae289.Pied BushchatSaxicola leucuraMuscicapidae289.Pied BushchatSaxicola leucuraMuscicapidae289.Pied BushchatSaxicola leucura	270.	Indian Blue Robin	Luscinia brunnea	Muscicapidae
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276.Blue Capped Rock ThrushMonticola cinclorhynchusMuscicapidae277.Chestnut-bellied Rock ThrushMonticola rufiventrisMuscicapidae278.Asian Brown FlycatcherMuscicapi dauuricaMuscicapidae279.Dark Sided FlycatcherMuscicapi abiricaMuscicapidae280.Rufous-bellied NiltavaNiltava sundaraMuscicapidae281.Desert WheatearOenanthe desertiMuscicapidae282.Isabelline WheatearOenanthe isabellineMuscicapidae283.Variable WheatearOenanthe picataMuscicapidae284.Pied WheatearOenanthe picataMuscicapidae285.Blue-capped RedstartPhoenicurus caeruleocephalusMuscicapidae286.Blue-fronted RedstartPhoenicurus ochrurosMuscicapidae287.Black RedstartPhoenicurus ochrurosMuscicapidae288.Plumbeous Water-RedstartRhyacornis fuliginosusMuscicapidae289.Pied BushchatSaxicola ferreaMuscicapidae290.Grey BushchatSaxicola fulcataMuscicapidae291.White Tailed StonechatSaxicola fulcataMuscicapidae292.Indian RobinSaxicola fueruraMuscicapidae293.Grey-winged BlackbirdTurdus merulaMuscicapidae294.Eurasian BlackbirdSaxicola torquataMuscicapidae295.Scaly ThrushZoothera daumaMuscicapidae296.Common Stone ChatSaxicola torquataMuscicapidae<	274.	Blue Rock- Thrush	Monticola solitarius	Muscicapidae
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287.Black RedstartPhoenicurus ochrurosMuscicapidae288.Plumbeous Water-RedstartRhyacornis fuliginosusMuscicapidae289.Pied BushchatSaxicola caprataMuscicapidae290.Grey BushchatSaxicola ferreaMuscicapidae291.White Tailed StonechatSaxicola leucuraMuscicapidae292.Indian RobinSaxicoloides fulicataMuscicapidae293.Grey-winged BlackbirdTurdus boulboulMuscicapidae294.Eurasian BlackbirdZoothera daumaMuscicapidae295.Scaly ThrushZoothera daumaMuscicapidae296.Common Stone ChatSaxicola torquataMuscicapidae297.Dark-Throated ThrushTurdus ruficollisMuscicapidae298.Orange headed ThrushZoothera citrinaMuscicapidae299.Tickell's ThrushAethopyga siparajaNectariniidae	285.	Blue-capped Redstart	Phoenicurus caeruleocephalus	Muscicapidae
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297.Dark-Throated ThrushTurdus ruficollisMuscicapidae298.Orange headed ThrushZoothera citrinaMuscicapidae299.Tickell's ThrushTurdus unicolorMuscicapidae300.Crimson SunbirdAethopyga siparajaNectariniidae	295.	Scaly Thrush	Zoothera dauma	Muscicapidae
298.Orange headed ThrushZoothera citrinaMuscicapidae299.Tickell's ThrushTurdus unicolorMuscicapidae300.Crimson SunbirdAethopyga siparajaNectariniidae	296.	Common Stone Chat	Saxicola torquata	Muscicapidae
299.Tickell's ThrushTurdus unicolorMuscicapidae300.Crimson SunbirdAethopyga siparajaNectariniidae	297.	Dark-Throated Thrush	Turdus ruficollis	Muscicapidae
300.Crimson SunbirdAethopyga siparajaNectariniidae	298.	Orange headed Thrush	Zoothera citrina	Muscicapidae
	299.	Tickell's Thrush	Turdus unicolor	Muscicapidae
301.Pale-billed FlowerpeckerDicaeum erythrorhynchosNectariniidae	300.	Crimson Sunbird	Aethopyga siparaja	Nectariniidae
	301.	Pale-billed Flowerpecker	Dicaeum erythrorhynchos	Nectariniidae

302.	Purple Sunbird	Nectarinia asiatica	Nectariniidae
303.	Thick billed Flowerpecker	Dicaeum agile	Nectariniidae
304.	Great Tit	Parus major	Paridae
305.	Green-backed Tit	Parus monticolus	Paridae
306.	Black lored Tit	Parus xanthogenys	Paridae
307.	Spotwinged Tit	Parus melanolophus	Paridae
308.	Tawny Pipit	Anthus campestris	Passeridae
309.	Red-throated Pipit	Anthus cervinus	Passeridae
310.	Blyth's Pipit	Anthus godlewskii	Passeridae
311.	Olive-backed Pipit	Anthus hodgsoni	Passeridae
312.	Richard's Pipit	Anthus richardi	Passeridae
313.	Rosy Pipit	Anthus roseatus	Passeridae
314.	Paddyfield Pipit	Anthus rufulus	Passeridae
315.	Long-billed Pipit	Anthus similis	Passeridae
316.	Water Pipit	Anthus spinoletta	Passeridae
317.	Upland Pipit	Anthus sylvanus	Passeridae
318.	Tree Pipit	Anthus trivialis	Passeridae
319.	Indian Silverbill	Lonchura malabarica	Passeridae
320.	Scaly- breasted Munia	Lonchura punctulata	Passeridae
321.	White Wagtail	Motacilla alba	Passeridae
322.	Grey Wagtail	Motacilla cinerea	Passeridae
323.	Citrine Wagtail	Motacilla citreola	Passeridae
324.	Yellow Wagtail	Motacilla flava	Passeridae
325.	White-browed Wagtail	Motacilla maderaspatensis	Passeridae
326.	House Sparrow	Passer domesticus	Passeridae
327.	Baya Weaver	Ploceus philippinus	Passeridae
328.	Red Avadavat	Amandava amandava	Passeridae
329.	Chestnut-Shoulder Petronia	Petronia xanthocollis	Passeridae
330.	Streaked Weaver	Ploceus manyar	Passeridae
331.	Indian Pitta	Pitta brachyura	Pittidae
332.	Black Bulbul	Hypsipetes leucocephalus	Pycnonotidae
333.	Red-vented Bulbul	Pycnonotus cafer	Pycnonotidae
334.	Himalayan Bulbul	Pycnonotus leucogenys	Pycnonotidae
335.	Chestnut-bellied Nuthatch	Sitta castanea	Sittidae
336.	Wallcreeper	Tichodroma muraria	Sittidae
337.	Jungle Myna	Acridotheres fuscus	Sturnidae
338.	Bank Myna	Acridotheres ginginianus	Sturnidae
339.	Common Myna	Acridotheres tristis	Sturnidae

340.	Asian Pied Starling	Sturnus contra	Sturnidae
341.	Brahminy Starling	Sturnus pagodarum	Sturnidae
342.	Common Starling	Sturnus vulgaris	Sturnidae
343.	Chestnut-tailed Starling	Sturnus malabaricus	Sturnidae
344.	Rosy Starling	Sturnus roseus	Sturnidae
345.	Paddyfield Warbler	Acrocephalus agricola	Sylviidae
346.	Blyth's Reed Warbler	Acrocephalus dumetorum	Sylviidae
347.	Black Browed Reed Warbler	Acrocephalus bistrigiceps	Sylviidae
348.	Clamorous Reed Warbler	Acrocephalus stentoreus	Sylviidae
349.	Brownish-flanked Bush Warbler	Cettia fortipes	Sylviidae
350.	Booted Warbler	Hippolais caligata	Sylviidae
351.	Common Tailorbird	Orthotomus sutorius	Sylviidae
352.	Smoky Warbler	Phylloscopus fuligiventer	Sylviidae
353.	Common Chiffchaff	Phylloscopus collybita	Sylviidae
354.	Mountain Chiffchaff	Phylloscopus sindianus	Sylviidae
355.	Sulper-Bellied Warbler	Phylloscopus griseolus	Sylviidae
356.	Greenish Warbler	Phylloscopus trochiloides	Sylviidae
357.	Grey-hooded Warbler	Seicercus xanthoschistos	Sylviidae
358.	Grasshopper Warbler	Nocustella naevia	Sylviidae
359.	Dusky Warbler	Phylloscopus fuscatus	Sylviidae
360.	Lemon-rumped Warbler	Phylloscopus chloronotus	Sylviidae
361.	Humes Warbler	Phylloscopus humei	Sylviidae
362.	Grey Sided Bush Warbler	Cettia brunnifrons	Sylviidae
363.	Western Crowned Warbler	Phylloscopus occipitalis	Sylviidae
364.	Golden Spectacled Warbler	Seicerus burkii	Sylviidae
365.	Lesser Whitethroat	Sylvia curruca	Sylviidae
366.	Humes Whitethroat	Sylvia althaea	Sylviidae
367.	Puff-throated Babbler	Pellorneum ruficeps	Sylviidae
368.	Common Babbler	Turdoides caudatus	Sylviidae
369.	Striated Babbler	Turdoides earlei	Sylviidae
370.	Jungle Babbler	Turdoides striatus	Sylviidae
371.	Striated Grassbird	Megalurus palustris	Sylviidae
372.	Plain leaf Warbler	Phylloscopus neglectus	Sylviidae
373.	Chestnut Crowned Laughingthrush	Garrulax affinis	Sylviidae
374.	Bristled Grassbird	Chaetornis striatus	Sylviidae
375.	Streaked Laughingthrush	Garrulax lineatus	Sylviidae
376.	Rusty Cheeked Scimitar Babbler	Pomatorhinus erythrogenys	Sylviidae
377.	White Browed Babbler		

378.	Yellow Eyed Babbler	Chrysomma sinense	Sylviidae
379.	White Browed Fulvetta	Alcippe vinipectus	Sylviidae
380.	Black Chinned Babbler	Stachyris pyrrhops	Sylviidae
381.	Lanceolated Warbler	Locustella lanceolata	Sylviidae
382.	Oriental White Eye	Zosterops palpebrosus	Zosteropidae
383.	Blue-fronted Woodpecker	Megalaima asiatica	Megalaimidae
384.	Coppersmith barbet	Megalaima haemacephala	Megalaimidae
385.	Great Barbet	Megalaima virens	Megalaimidae
386.	Brown-headed Barbet	Megalaima zeylanica	Megalaimidae
387.	Brown-fronted Woodpecker	Dendrocopos auriceps	Picidae
388.	Grey-capped Woodpecker	Dendrocopos canicapillus	Picidae
389.	Yellow-crowned Woodpecker	Dendrocopos mahrattensis	Picidae
390.	Brown-capped Woodpecker	Dendrocopos nanus	Picidae
391.	Black-rumped Flameback	Dinopium benghalense	Picidae
392.	Fulvous Breasted Woodpecker	Dendrocopos macei	Picidae
393.	Eurasian Wryneck	Jynx torquilla	Picidae
394.	Grey-headed Woodpecker	Picus canus	Picidae
395.	Speckled Piculet	Picumnus innominatus	Picidae
396.	Plum-headed Parakeet	Psittacula cyanocephala	Psittacidae
397.	Alexandrine Parakeet	Psittacula eupatria	Psittacidae
398.	Slaty-headed Parakeet	Psittacula himalayana	Psittacidae
399.	Rose-ringed Parakeet	Psittacula krameri	Psittacidae
400.	Savanna Nightjar	Caprimulgus affinis	Caprimulgidae
401.	Large Tailed Nightjar	Caprimulgus macrurus	Caprimulgidae
402.	Spotted owlet	Athene brama	Strigidae
403.	Eurasian Eagle-Owl	Bubo bubo	Strigidae
404.	Jungle Owlet	Glaucidium radiatum	Strigidae
405.	Short eared Owl	Asio flammeus	Strigidae
406.	Oriental Scops-Owl	Otus sunia	Strigidae
407.	Asian Barred Owlet	Glaucidium cuculoides	Strigidae
408.	Barn Owl	Tyto alba	Tytonidae
409.	Common Hoopoe	Upupa epops	Upupidae
410.	Black Ibis	Pseudibis papillosa	Threskiornithidae
411.	Eurasian Spoonbill	Platalea leucorodia	Threskiornithidae
412.	Glossy Ibis	Plegadis falcinellus	Threskiornithidae
413.	Black Throated Accentor	Prunella atrogularis	Prunellidae
414.	Rufous-Breasted Accentor	Prunella strophiata	Prunellidae
415.	Pied Avocet	Recurvirostra avosetta	Recurvirostridae

OTHER ANIMALS REPORTED IN PONG WETLAND AREA

MAMMALS:

SERIAL NO.	COMMON NAME	ZOOLOGICAL NAME	
1.	Common Monkey	Rhesus macaque	
2.	Hannuman Langur	Semnopithecus entellus	
3.	Sambar	Cervus unicolor	
4.	Barking Deer	Muntiacus muntjak	
5.	Nilgai	Boselaphus tragocamelus	
6.	Wild Pig	Sus scrofa	
7.	Jackal	Canis aureus	
8.	Common Leopard	Panthera pardus	
9.	Jungle Cat	Felis chaus	
10.	Small Indian Civet	Viverricula indica	
11.	Large Indian Civet	Viverra zibetha	
12.	Common Palm Civet	Paradoxurus hemaphroditus	
13.	Common Indian Grey Mongoose	Herpestes edwardsii	
14.	Small Indian Mongoose	Herpestes javanicus	
15.	Indian Pangolin	Manis crassicaudata	
16.	Indian Hare	Lepus nigricollis	
17.	Indian Porcupine	Hystrix indica	
18.	Striped Squirrel	Funambulus pennantii	
19.	Rats		
20.	Bats		
21.	Clawless Otter		

SNAKES:

SERIAL NO.	COMMON NAME	ZOOLOGICAL NAME
1.	Indian Rock Pythons	Python molurus
2.	Indian Trinket Snake	Coelognathus helena
3.	Sand Boa	Gongylophis conicus
4.	Indian Rat Snake	Ptyas mucosa
5.	Banded Kukri Snake	Oligodon arnensis
6.	Barred Wolf Snake	Lycodon striatus
7.	Chekered Keelback Water Snake	Xenochrophis piscator
8.	Buff Striped Kelback Snake	Amphiesma stolatum
9.	Largebeaked Thread Snake	Leptotyphlops macrorhynchus
10.	Brahminy Blind Snake	Ramphotyphlops braminus
11.	Yellow Spotted Wolf Snake	Lycodon flavomaculatus
12.	Common Wolf Snake	Lycodon aulicus
13.	Russell's Viper	Daboia russelii
14.	Saw Scaled Viper	Echis carinatus
15.	Common Krait	Bungarus caeruleus
16.	Spectacled Cobra	Naja naja
17.	Central Asian Cobra	Naja oxiana
18.	Vine Snake	Ahaetulla nasuta

TURTLES:

SERIAL NO.	COMMON NAME	ZOOLOGICAL NAME
1.	Spotted Pond Turtle	Geoclemys hamiltonii
2.	Indian tent turtle	Pangshura tentoria
3.	Indian Flap- shelled turtle	Lissemys puncatata
4.	Indian Black Turtle	Melanochelys trijuga
5.	Gangetic Soft-shell Turtle	Nilsonia gangetica

BUTTERFLIES:

85 species of butterflies have been identified in the Pong- Lake. Few names are Blue Pansy, Peacock Pansy, Yellow Pansy, Small Grass Yellow, Chocoloate Pansy, Mottled Emigrant, Common Leopard, Great Eggfly, Common Map, Common Crow, Common Mormon, Rustic, Common Sailer, Great Pansy, Red pierrot, Orange Oak Leaf.

FISH:

Variety of fish such as Mahsheer, Katla, Carps, Mirgal, Rahoo, Singhara etc. are found in Pong Dam Lake and its tributaries. A total of 27 fish species belonging to five families have been recorded. Pong reservoir may be categorized as cat fish reservoir. Mahsheer is highly precious and the most sought after fish of Pong reservoir

CONSERVATION INITIATIVES

CONSERVATION MEASURES TAKEN: (National category and legal status of protected areas - including any boundary changes which have been made: management practices; whether an officially approved management plan exists and whether it has been implemented).

In 1986, the entire reservoir was declared as a Wildlife Sanctuary by the Himachal Pradesh Government. A management plan (*Chandra*, 1992) for the Pong Dam bird Sanctuary mainly addresses issues inside the PA boundaries such as, protection, habitat improvement, tourism and regulation, roads and staff quarters, etc. The HPFD has undertaken plantation work in the peripheral area of the lake. This has been done for checking the silt as well as providing nesting and roosting places for the birds. The island of Ransar has been developed for nature conservation education. A Rest House has been built on this island and boat facility is provided for the school children to go upto the island for birding.

Conservation measures proposed but not yet implemented: (e.g. management plan in preparation; officially proposed as a protected area, etc.)

THREE TYPES OF MEASURES ARE PROPOSED

- To manage the habitat
- To co-exist with the local community
- Ecotourism

Some of the suggested measures are:

- (a) Creation of permanent shallow water area where reed- beds and other perennial aquatic vegetation will develop and attract additional bird species.
- (b) The establishment of trees on the main island to provide nesting sites for colonial nesting birds such as storks, herons and egret.
- (c) Planting of variety of trees on the lake margins to attract more and more birds
- (d) One area, the mouth of the Baner Khad (on the river Banganga) just below Haripur Guler, is recommended for development. This can be done by erecting an earthen dam with water regulatory mechanisms so that shallow area is developed for establishing heronaries. If this is successful, then one or two areas can be developed and managed for wildlife.

TO CO-EXIST WITH THE LOCAL COMMUNITY

Efforts to conserve forests and wildlife have gradually begun to shift away from law enforcement and use restrictions during the last two decades, and towards more participatory approaches emphasizing equitable and sustainable use of natural resources by local people. This change in approach is particularly important in rural areas of the Pong Dam Bird Sanctuary where biodiversity is concentrated and where poverty tends to be pervasive.

COMMUNITY BASED ECOTOURISM AT PONG DAM LAKE

The location of the Pong Dam Lake is highly suited for ecotourism. It is close to the towns of Pathankot in Punjab and religious places of Kangra, Chamunda in Himachal Pradesh. The natural grandeur of the Lake with its magnificent backdrop invites an ecotourist. Ecotourism at the lake will aim at providing ecotourist with nature tourism opportunities and also generating economic returns to strengthen the lake management and augment economic benefits for local people. "Ecotourism" is not simply taking a holiday in a nature, watching wildlife, or engaging in an outdoor sport, it is distinguished from conventional tourism in that it employs measures to reduce negative impacts on the natural and cultural environment. "Community"- based ecotourism (CBET) takes the definition on step further. It ensures that the benefits, both social and economic, are realized by local communities. If local people receive direct economic benefits from a protected area, they are less likely to resent its presence and more inclined to support management activities.

WETLANDS VISION

State-wide ecological landscape with functional wetland ecosystems to sustainably meet the needs of present and future generations through:

- Developing short and long term conservation plans, strategies and policies.
- Achieving wise use and effective management on ground.
- Promoting research development and technical skills.
- Generating realistic wetland resource database.
- Cooperating with national and interstate agencies.
- Promoting awareness and knowledge about wetland values.

"Wetland ecosystems are not inherited from our descendants. They must be returned in good working order-if they are returned with interest- so much the better".

Edward Maltby

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