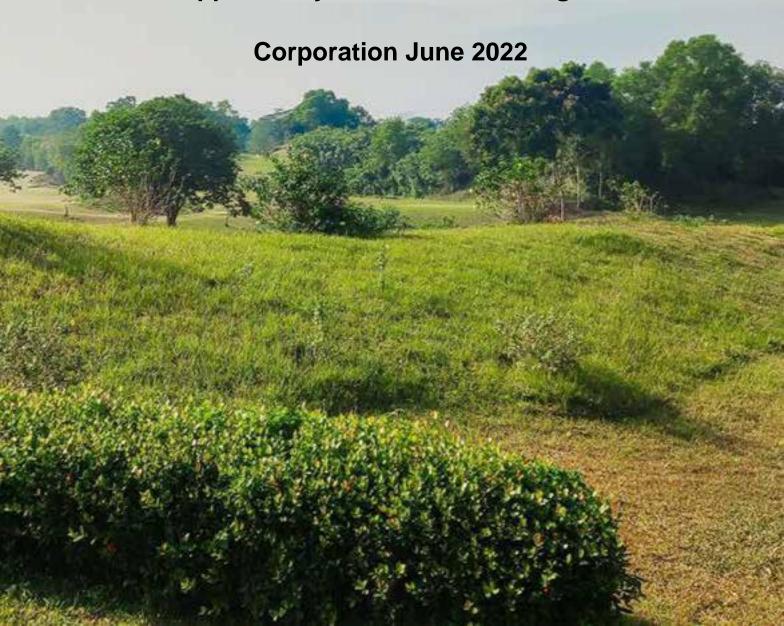
Animal Diversity Registration of Korean EPZ (KEPZ): An Environmentally Responsible Private Initiative

A Report
Prepared by WildTeam
Supported by Korean EPZ, Youngone



Biodiversity Registration of Korean EPZ: An Environmentally Responsible Private Initiative

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Executive summary

Korean Export Processing Zone (KEPZ) is an initiative of Youngone Corporation, a company based in South Korea. KEPZ initiative included re-greening of the barren land and rehabilitating the natural environment of the area as part of developing it as an eco-friendly export processing zone. In the past, about two decades KEPZ has created several large marshlands and undertaken tree plantation on a large scale to turn more than half the land into fenland and woods. Casual observations asserted the remarkable speed of recolonization of those newly created marshes and greeneries by wildlife long lost from that area. A study on the faunal diversity and the ecology of the KEPZ was undertaken to evaluate the success of re-greening of the area and rehabilitation of the wildlife. The study listed nearly 86 species of butterflies, 20 species of dragonflies and damselflies, 7 species of amphibians, 9 species of reptiles, 159 species of birds, and 11 species of mammals. The 121 species of birds sighted during the two short field visits are given at Table-1. It is evidently not a comprehensive list of the birds of KEPZ since many very common birds of Bangladesh are missing in that list. The list of birds living round the year at KEPZ or using it seasonally will be considerably larger than Table-1. A list of 38 species of common birds not sighted during the field visits are given at Table-2. These 38 species are not site-specific and seen in all woodlands, orchards and village groves of Bangladesh. These birds are guaranteed to be sighted at the KEPZ if more field visits are undertaken. The number of species of birds of KEPZ will, therefore, be no less than 159. This number will be higher with the inclusion of a few gulls, terns and shorebirds if the survey area is extended up to the river-front of KEPZ. The lesson learned from the KEPZ initiative has relevance to the re-greening, re-wilding, and wildlife rehabilitation efforts elsewhere in Bangladesh.



The survey team is observing birds on a chilly morning at KEPZ

Introduction

Youngone Corporation is an environmentally responsible world-class private initiative. The company started a green zone called Korean Export Processing Zone (KEPZ) on the south bank of the Karnaphuli River in Chattogram (formerly Chittagong), Bangladesh, in 1999. Today the large part of the 2,500 acres of barren land turned into a sanctuary for many threatened species of this country. Mr. Kihak Sung, Chairman and CEO of Youngone, has the vision to produce goods and develop infrastructure without causing harm to the environment. He designed a green concept as a strategy and policy pursued by Youngone. By now Youngone planted more than 2.5 million trees and created 25 reservoirs, which are home to a large number of invertebrates, amphibians, reptiles, birds, and mammals.

United Nations Environment Programme (UNEP) defines green industry as "a pathway of sustainable growth by undertaking green public investments and implementing public policy initiatives that encourage environmentally responsible private investments". In line with UNEP's guidelines, KEPZ has already created its own version of green industries, which made home to a large number of wildlife. Based on Youngone Corporation's commitment to a healthy planet and making the workplaces environment-friendly, WildTeam hereby showed interest to do a survey within the KEPZ area to make an inventory of butterflies, dragonflies, damselflies, amphibians, reptiles, birds, and mammals, and gather information on their habitat, ecology, and threats. A highly experienced team with different skill sets such as bird specialist, wildlife biologist, camera trap survey expert, and data analyst worked on this project.

The survey results will support KEPZ develop a conservation plan to protect its biodiversity and minimize threats.



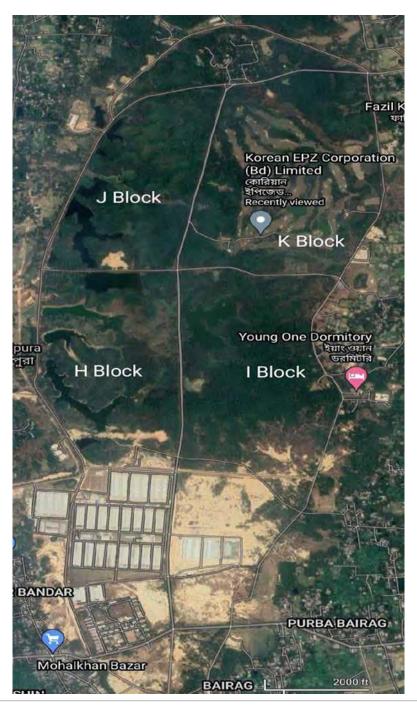
A green belt of the KEPZ industrial zone

Survey period

The duration of the project was from December 2020 to January 2022. Within this period two surveys were conducted. The first survey was carried out from December 3-30, 2020, and the second survey was done from December 15, 2021, to January 09, 2022.

Study area

The survey was done in the Korean Export Processing Zone located in Anowara upazila of Chattogram district of Bangladesh.

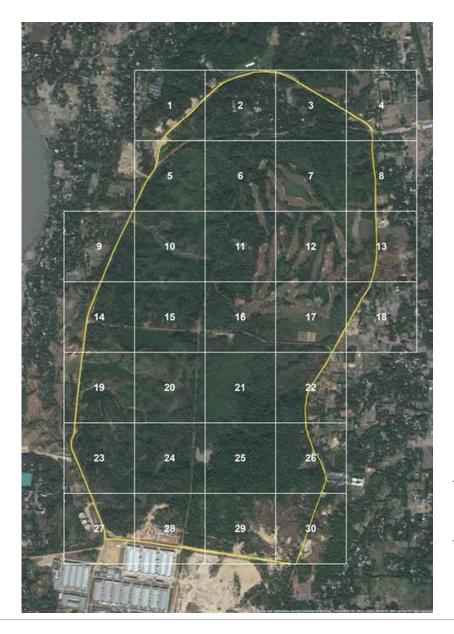


Map of KEPZ

Survey methods

As the study area is covered with various types of habitats such as grassland, forest, plain land, hill tracts, and waterbody, it was divided into sections, for each habitat. The entire area was divided into four blocks named H, I, J, K. Each block was further divided into sub-blocks to collect the data appropriately. Both direct and indirect observation methods were followed for this survey. For the direct method (counting the animals), transect and block survey techniques were followed. For the indirect method, counting signs or signals such as dung, tracks, pug marks, and calls were recorded.

For mammals, camera traps were set to capture the images of animals. The survey team recorded bird species by direct observation and hearing the calls while walking along the transects within the blocks. Butterflies and damselflies were recorded by direct observation. Frogs and toads go hibernation in winter, however, the survey team was able to record only a few species of them.



During the first survey, the KEPZ area was divided into 30 grids for monitoring. Each grid was 0.25 sq km. The total grid area was 7.5 sq km.



The three techniques of the survey (Direct sighting \bullet Sign survey \bullet Camera trap survey)

Direct sighting

All the animals sighted were listed by the grids.



Direct sighting of animals.

Sign survey

Sign surveys were useful to identify the nocturnal animals.





Animal footprints in KEPZ. (Jackal and Fishing cat footprint)

Camera trapping

Camera traps are a useful tool for collecting information on vertebrate species, especially nocturnal animals.





 $Modern\ technology\ (e.g.,\ camera\ traps)\ was\ used\ in\ the\ survey.\ (Left:\ Setting\ a\ camera\ trap.\ Right:\ A\ camera-trapped\ image)$

Survey equipment

- 5 units of GPS
- 5 DSLR cameras
- 5 pairs of binoculars
- 10 camera traps
- Field data collection form and data storage form



Golden Jackal

Results

The study reveals that the Korean EPZ has 292 species of fauna: 11 species of mammals including 3 non-resident wild elephants (two adults and one calf), 159 species of birds, 9 species of reptiles, 7 species of amphibians, 86 species of butterflies, and 20 species of dragonflies and damselflies.



An Asian Elephant is crossing the road

Asian Elephants are Critically Endangered in Bangladesh for various reasons. Bangladesh Forest Department attributes electrocution, aging, slipping, and falling from hills to most elephant deaths in Bangladesh. They have been visiting KEPZ since 2011. Unfortunately, conflicts with elephants have been observed in the past three years here. A few people were killed and KEPZ property was damaged by elephants. This conflict is on the rise and proper actions should be taken to mitigate this conflict. Conflicts with other animals are also observed here.





By Elephant

Consequences of human-wildlife conflict in KEPZ

By Porcupine

Suggestions to mitigate human-elephant conflict issues in KEPZ:

- Feeding, foraging, and territorial behaviour of elephants be studied;
- Elephant movement patterns and corridors be studied;
- The daily activity/movement pattern be plotted on a map of KEPZ and its neighbouring areas:
- Source population of these elephants should be identified;
- Land-use planning is necessary, which guides and helps prepare an action plan on human-elephant conflict issues;
- Discourage planting plants that attract elephants. For example, coconut trees. Orchard gardens including jackfruits, paddy, and a few vegetables are also the attractants of the elephants;
- Capacity building: an employee along with his/her regular activities, could monitor biodiversity including human-elephant conflict issues;
- Elephant Response Team (ERT), comprising existing security guards be formed, and trained;
- Awareness-raising activities: KEPZ employees/workers should be made aware of the DOs and DON'Ts when the elephants are around;
- A manual on human-elephant conflict mitigation measures could be prepared and distributed;
- Solar electric fencing may be installed at entry points (Forest Department should be consulted on this);
- An alarm system by developing an app be in place;
- A hotline to inform the presence/movement of elephants be in place;
- CCTV cameras be installed at strategic locations;
- Watch towers be in place at strategic locations;
- Searchlights be installed at strategic locations;
- Trenches could be dug at different locations to discourage elephant movement (FD should be consulted on this)
- Translocation of elephants: this needs the involvement of FD; and
- Radio-collaring of the immobilized elephants to monitor their movement.

Conclusion

While the current trend is destroying nature and building concrete infrastructure Korean Export Processing Zone (KEPZ) is creating a safe heaven for the country's outstanding but declining biodiversity. The biodiversity survey at the KEPZ was conducted by WildTeam with a goal to accomplish Youngone Corporation's commitment to restoring and conserving the natural environment and creating a healthy working environment for KEPZ's employees. The study reveals that a total of 292 species of fauna ocur in the Korean EPZ including mammals, birds, reptiles, amphibians, and insects. The study also recorded human-wildlife conflict information that took place at KEPZ. Conflicts with elephants are quite severe there and it took a toll on human lives and KEPZ property. Studying the behaviour and movement patterns of the elephants; not planting trees or growing crops that attract elephants; educating the KEPZ community on the importance of elements and the management of conflict situations are among the proposed measures to mitigate human-elephant conflict. Furthermore, to intensify its nature conservation efforts KEPZ should develop a long-term action plan to monitor and study the biodiversity; identify and mitigate threats; educating the local community on the importance of biodiversity and its role to protect them. A dedicated biodiversity team should be developed from the staff of the KEPZ to carry out conservation activities within and around this unique area. The KEPZ is an excellent example of green space in a commercial city like Chattogram and this re-wilding model should be followed by others.

Acknowledgements

We owe so much to Mr Kihak Sung, Chairman and CEO, Youngone Corporation and Korean EPZ (KEPZ) Corporation (BD) Ltd, for encouraging us to register the faunal diversity of the Korean EPZ. We must sincerely thank Col (retd) Md. Shahjahan, MD, KEPZ, Mr Md. Ferdous Al Kowser, Deputy General Manager, Chairman's Office, KEPZ, Mr Mushfiqur Rahman, Assistant General Manager, KEPZ, Mr AKM Ashraf Hasan Eusuf, Assistant Manager, Agro-Environment Department, KEPZ, for providing all the facilities during the survey. We greatly appreciate the assistance of Mr Jafor Ahmed, Supervisor, Agro-Environment Department, KEPZ, and Mr Faruk, driver, KEPZ, during the field study. Both of them not only took us to all the places at KEPZ, but also helped us experience human-elephant conflict at KEPZ, once after the midnight. Thanks are due to Mr Omar Shahadat, Member, Bangladesh Bird Club, for checking all the bird names.

Faunal species recorded during the survey (Mammals)

Sl. No.	Species Name	Common Name	Local Name
1	Canis aureus	Golden Jackal	Pati Shial, Shial
2	Viverra zibetha	Large Indian Civet	Baghdash, Bham or BhamBiral, Gandho Gokul or Khatash
3	Viverricula indica	Small Indian Civet	Khatash, GandhoGakul, ChotoBagdash, Bham, Newl, Kolkat
4	Elephas maximus	Asian Elephant	Hati, Hasti, Gaja
5	Hystrix indica	Indian Crested Porcupine	Shojaru, Haza
6	Felis chaus	Jungle Cat	Ban Biral, Wab, Bon Bilai, Gara
7	Prionailurus viverrinus	Fishing Cat	MechhoBiral, Mechho Bagh
8	Pteropus giganteus	Indian Flying Fox	Kolabadur, TamateyKolabadur
9	Suncus murinus	Asian House Shrew	Chika, Chucho, Sucha
10	Herpestes auropunctatus	Indian Small Mongoose	Chhoto Beji, Nakul
11	Bandicota indica	Greater Bandicoot Rat	Dharilndur, Borolndur, BoroDhereldur



Mammals observed in KEPZ

Table 1. Birds sighted

SL.No.	Species Name	Common Name	Local name	
1	Dendrocygna javanica	Lesser Whistling Duck	Pati Shorali	
2	Dinopium benghalense	Black-rumped Flameback	Bangla Kaththokra	
3	Picus xanthopygaeus	Streak-throated Woodpecker	Dagigola Kathkurali	
4	Dendrocopos macei	Fulvous-breasted Woodpecker	Batabi Kathkurali	
5	Chrysocolaptes guttacristatus	Greater Flameback	Boro Kaththokra	
6	Psilopogon haemacephalus	Coppersmith Barbet	Shekra Boshonto, Choto Basanta Bauri	
7	Psilopogon lineatus	Lineated Barbet	Dagi Boshonto	
8	Upupa epops	Common Hoopoe	Pati Hoodhood	
9	Coracias affinis	Indochinese Roller	Chin-indian Neelkantho	
10	Halcyon smyrnensis	White-throated Kingfisher	Dholagola Machranga	
11	Alcedo atthis	Common Kingfisher	Pati Machranga, Choto Machranga	
12	Pelargopsis capensis	Stork-billed Kingfisher	Meghou Machranga	
13	Ceryle rudis	Pied Kingfisher	Pakra Machranga	
14	Merops orientalis	Asian Green Bee-eater	Sobuj Shuichora	
15	Merops leschenaulti	Chestnut Headed Bee-eater	Khoiramatha Shuichora	
16	Eudynamys scolopaceus	Western Koel	Kala Kokil	
17	Centropus bengalensis	Lesser Coucal	Bangla Kubo	
18	Centropus sinensis	Greater Coucal	Boro Kubo	
19	Cacomantis merulinus	Plaintive Cuckoo	Koroon Papia	
20	Hierococcyx varius	Common Hawk Cuckoo	Pati Chokhgelo	
21	Psittacula krameri	Rose-ringed Parakeet	Shobuj Tia	
22	Apus nipalensis	House Swift	Ghor Batashi	
23	Cypsiurus balasiensis	Asian Palm-swift	Ashio Talbatashi, Talbatashi, Nakkati	
24	Athene brama	Spotted Owlet	Khurule Pecha	
25	Ninox scululata	Brown Boobook	Khoira Shikrepecha	
26	Caprimulgus macrurus	Large-tailed Nightjar	Lenja Ratchora	
27	Columba livia	Rock Dove	Gola Paira, Gola Payra, Jalali Kobutor	
28	Spilopelia chinensis	Eastern Spotted Dove	Tila Ghughu, Telia Ghughu	

29 Streptopelia decocto Eurasian Collared-dove Euresio Konthighughu 30 Treron phoenicopterus Yellow-footed Green Pigeon Holdeypa Harial, Botkol 31 Chalcophaps indica Grey-capped Emerald Dove Pati Shamaghughu 32 Streptopelia tranquebarica Red Turtle Dove Lal Rajghughu, Lal Ghughu 33 Amauromis phoenicurus White-breasted Waterhen Dahuk, Dholagola Dahuk 34 Actitis hypoleucos Common Sandpiper Pati Batan 35 Gallinago gallinago Common Snipe Pati Chega 36 Tringa ochropus Green Sandpiper Shobuj Batan 37 Rostratula benghalensis Greater Painted Snipe Bangla Rangachega 38 Metopidius indicus Bronze-winged Jacana Jol Pipi 39 Hydrophasianus chirurgus Pheasant-tailed Jacana chirurgus Neu pipi, Jal Mayur chirurus 40 Vanellus indicus Red-wattled Lapwing Hot Titi 41 Vanellus cinereus Grey-headed Lapwing Meteymatha Titi 42 Milvus migrans Black Kite	SL.No.	Species Name	Common Name	Local name	
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chirurgus 40 Vanellus indicus Red-wattled Lapwing Hot Titi 41 Vanellus cinereus Grey-headed Lapwing Meteymatha Titi 42 Milvus migrans Black Kite Bhubon Chil 43 Haliastur indus Brahminy Kite Shonkho Chil 44 Accipiter badius Shikra Pati Shikre 45 Aviceda jerdoni Jerdon's Baza Jardoner Baj 46 Icthyophaga ichthyaetus Grey-headed Fish Eagle Meteymatha Kura-eagle Udoyee Modhubaj Udoyee Modhubaj Deshi Guti-eagle Tila-nag eagle Spilornis cheela Crested Serpent-eagle Tila-nag eagle So Hieraaetus pennatus Booted Eagle Bootpa Eagle 50 Hieraaetus pennatus Booted Eagle Bootpa Eagle 51 Falco tinnunculus Common Kestrel Pati Kestrel 52 Falco peregrinus Peregrine Falcon Boheribaj, Peregrin Shaheen 53 Tachybaptus ruficollis Little Grebe Choto Duburi 54 Anhinga melanogaster Oriental Darter Goyar Choto Pankouri	38	Metopidius indicus	Bronze-winged Jacana	Jol Pipi, Dol Pipi	
41 Vanellus cinereus Grey-headed Lapwing Meteymatha Titi 42 Milvus migrans Black Kite Bhubon Chil 43 Haliastur indus Brahminy Kite Shonkho Chil 44 Accipiter badius Shikra Pati Shikre 45 Aviceda jerdoni Jerdon's Baza Jardoner Baj 46 Icthyophaga ichthyaetus Grey-headed Fish Eagle Meteymatha Kura-eagle 47 Pernis ptilorhyncus Oriental Honey-buzzard Udoyee Modhubaj 48 Clanga hastata Indian Spotted Eagle Deshi Guti-eagle 49 Spilornis cheela Crested Serpent-eagle Tila-nag eagle 50 Hieraaetus pennatus Booted Eagle Bootpa Eagle 51 Falco tinnunculus Common Kestrel Pati Kestrel 52 Falco peregrinus Peregrine Falcon Boheribaj, Peregrin Shaheen 53 Tachybaptus ruficollis Little Grebe Choto Duburi 54 Anhinga melanogaster Oriental Darter Goyar 55 Microcarbo niger Little Cormorant Choto Pankouri	39		Pheasant-tailed Jacana	Neu pipi, Jal Mayur	
42Milvus migransBlack KiteBhubon Chil43Haliastur indusBrahminy KiteShonkho Chil44Accipiter badiusShikraPati Shikre45Aviceda jerdoniJerdon's BazaJardoner Baj46Icthyophaga ichthyaetusGrey-headed Fish EagleMeteymatha Kura-eagle47Pernis ptilorhyncusOriental Honey-buzzardUdoyee Modhubaj48Clanga hastataIndian Spotted EagleDeshi Guti-eagle49Spilornis cheelaCrested Serpent-eagleTila-nag eagle50Hieraaetus pennatusBooted EagleBootpa Eagle51Falco tinnunculusCommon KestrelPati Kestrel52Falco peregrinusPeregrine FalconBoheribaj, Peregrin Shaheen53Tachybaptus ruficollisLittle GrebeChoto Duburi54Anhinga melanogasterOriental DarterGoyar55Microcarbo nigerLittle CormorantChoto Pankouri	40	Vanellus indicus	Red-wattled Lapwing	Hot Titi	
43 Haliastur indus Brahminy Kite Shonkho Chil 44 Accipiter badius Shikra Pati Shikre 45 Aviceda jerdoni Jerdon's Baza Jardoner Baj 46 Icthyophaga ichthyaetus Grey-headed Fish Eagle Meteymatha Kura-eagle 47 Pernis ptilorhyncus Oriental Honey-buzzard Udoyee Modhubaj 48 Clanga hastata Indian Spotted Eagle Deshi Guti-eagle 49 Spilornis cheela Crested Serpent-eagle Tila-nag eagle 50 Hieraaetus pennatus Booted Eagle Bootpa Eagle 51 Falco tinnunculus Common Kestrel Pati Kestrel 52 Falco peregrinus Peregrine Falcon Boheribaj, Peregrin Shaheen 53 Tachybaptus ruficollis Little Grebe Choto Duburi 54 Anhinga melanogaster Oriental Darter Goyar 55 Microcarbo niger Little Cormorant Choto Pankouri	41	Vanellus cinereus	Grey-headed Lapwing	Meteymatha Titi	
44 Accipiter badius Shikra Pati Shikre 45 Aviceda jerdoni Jerdon's Baza Jardoner Baj 46 Icthyophaga ichthyaetus Grey-headed Fish Eagle Meteymatha Kura-eagle 47 Pernis ptilorhyncus Oriental Honey-buzzard Udoyee Modhubaj 48 Clanga hastata Indian Spotted Eagle Deshi Guti-eagle 49 Spilornis cheela Crested Serpent-eagle Tila-nag eagle 50 Hieraaetus pennatus Booted Eagle Bootpa Eagle 51 Falco tinnunculus Common Kestrel Pati Kestrel 52 Falco peregrinus Peregrine Falcon Boheribaj, Peregrin Shaheen 53 Tachybaptus ruficollis Little Grebe Choto Duburi 54 Anhinga melanogaster Oriental Darter Goyar 55 Microcarbo niger Little Cormorant Choto Pankouri	42	Milvus migrans	Black Kite	Bhubon Chil	
45 Aviceda jerdoni Jerdon's Baza Jardoner Baj 46 Icthyophaga ichthyaetus Grey-headed Fish Eagle Meteymatha Kura-eagle 47 Pernis ptilorhyncus Oriental Honey-buzzard Udoyee Modhubaj 48 Clanga hastata Indian Spotted Eagle Deshi Guti-eagle 49 Spilornis cheela Crested Serpent-eagle Tila-nag eagle 50 Hieraaetus pennatus Booted Eagle Bootpa Eagle 51 Falco tinnunculus Common Kestrel Pati Kestrel 52 Falco peregrinus Peregrine Falcon Boheribaj, Peregrin Shaheen 53 Tachybaptus ruficollis Little Grebe Choto Duburi 54 Anhinga melanogaster Oriental Darter Goyar 55 Microcarbo niger Little Cormorant Choto Pankouri	43	Haliastur indus	Brahminy Kite	Shonkho Chil	
46Icthyophaga ichthyaetusGrey-headed Fish EagleMeteymatha Kura-eagle47Pernis ptilorhyncusOriental Honey-buzzardUdoyee Modhubaj48Clanga hastataIndian Spotted EagleDeshi Guti-eagle49Spilornis cheelaCrested Serpent-eagleTila-nag eagle50Hieraaetus pennatusBooted EagleBootpa Eagle51Falco tinnunculusCommon KestrelPati Kestrel52Falco peregrinusPeregrine FalconBoheribaj, Peregrin Shaheen53Tachybaptus ruficollisLittle GrebeChoto Duburi54Anhinga melanogasterOriental DarterGoyar55Microcarbo nigerLittle CormorantChoto Pankouri	44	Accipiter badius	Shikra	Pati Shikre	
47Pernis ptilorhyncusOriental Honey-buzzardUdoyee Modhubaj48Clanga hastataIndian Spotted EagleDeshi Guti-eagle49Spilornis cheelaCrested Serpent-eagleTila-nag eagle50Hieraaetus pennatusBooted EagleBootpa Eagle51Falco tinnunculusCommon KestrelPati Kestrel52Falco peregrinusPeregrine FalconBoheribaj, Peregrin Shaheen53Tachybaptus ruficollisLittle GrebeChoto Duburi54Anhinga melanogasterOriental DarterGoyar55Microcarbo nigerLittle CormorantChoto Pankouri	45	Aviceda jerdoni	Jerdon's Baza	Jardoner Baj	
48Clanga hastataIndian Spotted EagleDeshi Guti-eagle49Spilornis cheelaCrested Serpent-eagleTila-nag eagle50Hieraaetus pennatusBooted EagleBootpa Eagle51Falco tinnunculusCommon KestrelPati Kestrel52Falco peregrinusPeregrine FalconBoheribaj, Peregrin Shaheen53Tachybaptus ruficollisLittle GrebeChoto Duburi54Anhinga melanogasterOriental DarterGoyar55Microcarbo nigerLittle CormorantChoto Pankouri	46	Icthyophaga ichthyaetus	Grey-headed Fish Eagle	Meteymatha Kura-eagle	
49Spilornis cheelaCrested Serpent-eagleTila-nag eagle50Hieraaetus pennatusBooted EagleBootpa Eagle51Falco tinnunculusCommon KestrelPati Kestrel52Falco peregrinusPeregrine FalconBoheribaj, Peregrin Shaheen53Tachybaptus ruficollisLittle GrebeChoto Duburi54Anhinga melanogasterOriental DarterGoyar55Microcarbo nigerLittle CormorantChoto Pankouri	47	Pernis ptilorhyncus	Oriental Honey-buzzard	Udoyee Modhubaj	
50Hieraaetus pennatusBooted EagleBootpa Eagle51Falco tinnunculusCommon KestrelPati Kestrel52Falco peregrinusPeregrine FalconBoheribaj, Peregrin Shaheen53Tachybaptus ruficollisLittle GrebeChoto Duburi54Anhinga melanogasterOriental DarterGoyar55Microcarbo nigerLittle CormorantChoto Pankouri	48	Clanga hastata	Indian Spotted Eagle	Deshi Guti-eagle	
51Falco tinnunculusCommon KestrelPati Kestrel52Falco peregrinusPeregrine FalconBoheribaj, Peregrin Shaheen53Tachybaptus ruficollisLittle GrebeChoto Duburi54Anhinga melanogasterOriental DarterGoyar55Microcarbo nigerLittle CormorantChoto Pankouri	49	Spilornis cheela	Crested Serpent-eagle	Tila-nag eagle	
52Falco peregrinusPeregrine FalconBoheribaj, Peregrin Shaheen53Tachybaptus ruficollisLittle GrebeChoto Duburi54Anhinga melanogasterOriental DarterGoyar55Microcarbo nigerLittle CormorantChoto Pankouri	50	Hieraaetus pennatus	Booted Eagle	Bootpa Eagle	
53 Tachybaptus ruficollis Little Grebe Choto Duburi 54 Anhinga melanogaster Oriental Darter Goyar 55 Microcarbo niger Little Cormorant Choto Pankouri	51	Falco tinnunculus	Common Kestrel	Pati Kestrel	
54 Anhinga melanogaster Oriental Darter Goyar 55 Microcarbo niger Little Cormorant Choto Pankouri	52	Falco peregrinus	Peregrine Falcon	Boheribaj, Peregrin Shaheen	
55 Microcarbo niger Little Cormorant Choto Pankouri	53	Tachybaptus ruficollis	Little Grebe	Choto Duburi	
	54	Anhinga melanogaster	Oriental Darter	Goyar	
56 Ardeola grayii Indian Pond Heron Deshi Kani Bok	55	Microcarbo niger	Little Cormorant	Choto Pankouri	
	56	Ardeola grayii	Indian Pond Heron	Deshi Kani Bok	

SL.No.	Species Name	Common Name	Local name	
57	Bubulcus ibis	Cattle Egret	Go-Boga	
58	Ardea intermedia	Intermediate Egret	Majhla Bok	
59	Ardea alba	Great White Egret	Boro boga	
60	Ardea cinerea	Grey Heron	Dhupni Bok	
61	Butorides striata	Green-backed Heron	Khudey Bok, Shobuj Bok, Kura Bok	
62	Anastomus oscitans	Asian Openbill	Shamkhol	
63	Chloropsis aurifrons	Golden-fronted Leafbird	Shonakopali Horbola	
64	Lanius schach	Long-tailed Shrike	Lenja Latora	
65	Lanius cristatus	Brown Shrike	Khoira Latora	
66	Dendrocitta vagabunda	Rufous Treepie	Khoira Harichacha, Hari Chacha	
67	Corvus splendens	House Crow	Pati Kak	
68	Corvus macrorhynchos	Large-billed Crow	Dar Kak	
69	Coracina javensis	Large Cuckooshrike	Boro Kabashi	
70	Tephrodornis pondicerianus	Common Woodshrike	Pati Bonlatora	
71	Pericrocotus cinnamomeus	Small Minivet	Choto Saheli, Sath Saili	
72	Oriolus xanthornus	Black-hooded Oriole	Kalamatha Benebou	
73	Dicrurus macrocercus	Black Drongo	Kala Fingey	
74	Dicrurus aeneus	Bronzed Drongo	Bronze Fingey	
75	Dicrurus leucophaeus	Ashy Drongo	Metey Fingey	
76	Hypothymis azurea	Black-naped Monarch	Kalaghar Rajon	
77	Aegithina tiphia	Common Iora	Pati Fotikjol, Towfik	
78	Rhipidura albicollis	White-throated Fantail	Dholagola Chatighurani	
79	Geokichla citrina	Orange-headed Thrush	Komla Dama	
80	Copsychus saularis	Oriental Magpie -robin	Doel	
81	Ficedula albicilla	Taiga Flycatcher	Taiga Chutki	
82	Eumyias thalassinus	Verditer Flycatcher	Nil Katkatia, Ambar Chutki	
83	Cyornis poliogenys	Pale-chinned Blue-flycatcher	Dholagola Chutki	
84	Gracupica contra	Asian Pied Starling	Pakra Shalik	

SL.No.	Species Name	Common Name	Local name	
85	Sturnia malabaricus	Chestnut-tailed Starling	Khoiralej Kathshalik	
86	Acridotheres tristis	Common Myna	Bhat Shalik	
87	Acridotheres fuscus	Jungle Myna	Jhuti Shalik	
88	Parus major	Great Tit	Boro Tit	
89	Riparia riparia	Sand Martin	Bali Nakuti	
90	Hirundo rustica	Barn Swallow	Pati Ababil	
91	Pycnonotus cafer	Red-vented Bulbul	Bangla Bulbul	
92	Pycnonotus jocosus	Red-whiskered Bulbul	Sipahi Bulbul	
93	Iole virescens	Olive Bulbul	Jolpai Bulbu	
94	Cisticola juncidis	Zitting Cisticola	Bhomra Soton	
95	Prinia hodgsonii	Grey-breasted Prinia	Meteybook Prina	
96	Prinia rufescens	Rufescent Prinia	Lalche Prinia	
97	Zosterops palpebrosus	Indian White-eye	Udoi Dholachokh, Shet-ankhi	
98	Phylloscopus fuscatus	Dusky Warbler	Kalchey Futki	
99	Acrocephalus dumetorum	Blyth's Reed Warbler	Blaither Nolfutki, Tikra	
100	Helopsaltes certhiola	Pallas's Grasshopper Warbler	Palasi Froringfutki	
101	Phylloscopus inornatus	Yellow-browed Warbler	Holdevru Futki	
102	Orthotomus sutorius	Common Tailorbird	Pati Tuntuni	
103	Orthotomus atrogularis	Dark-necked Tailorbird	Kalagola Tuntuni	
104	Argya striata	Jungle Babbler	Bon Satarey	
105	Argya earlei	Striated Babbler	Dagi Satarey	
106	Pellorneum ruficeps	Puff-throated Babbler	Golafola Satarey	
107	Pterorhinus ruficollis	Rufous-necked Laughingthrush	Lalghar Penga	
108	Mirafra assamica	Bengal Bushlark	Bangla Jharbhorot	
109	Dicaeum cruentatum	Scarlet-backed Flowerpecker	Lalpith Fuljhuri	
110	Dicaeum erythrorhynchos	Pale-billed Flowerpecker	Meteythot Fuljhuri	
111	Cinnyris asiatica	Purple Sunbird	Beguni Moutushi	
112	Leptocoma zeylonica	Purple-rumped Sunbird	Beguni-komor Moutushi	

SL.No.	Species Name	Common Name	Local name	
113	Passer domesticus	House Sparrow	Pati Chorui	
114	Motacilla alba	White Wagtail	Dhola Khonjon	
115	Motacilla citreola	Citrine Wagtail	Sitrin Khonjon	
116	Anthus rufulus	Paddy-field Pipit	Dhani Tulika	
117	Anthus richardi	Richard's Pipit	Richarder Tulika	
118	Megalurus palustris	Striated Grassbird	Dagi Ghaspakhi	
119	Euodice malabarica	Indian Silverbil	Deshi Chandithot, Dhola Munia	
120	Longchura punctulata	Scaly-breasted Munia	Tila Munia	
121	Lonchura malacca	Tricoloured Munia	Khoyra Munia	





Lesser whistling-duck

Fulvous-breasted Woodpecker

Table 2. List of common birds

SL.No.	Species Name	Common Name	Local name
1	Jynx torquilla	Eurasian Wryneck	Euresio Gharbetha
2	Mycropternus brachyurus	Rufous Woodpecker	Khoyra Kathkurali
3	Psilopogon asiaticus	Blue-throated Barbet	Neelgola Basanta
4	Merops philippinus	Blue-tailed Bee-eater	Neellej Shuichora
5	Phaenicophaeus tristis	Green-billed Malkoha	Sobujthoth Malkoa
6	Cuculus micropterus	Indian Cuckoo	Boukothakou Papia
7	Psittacula alexandri	Red-breasted Parakeet	Modna Tia
8	Tyto alba	Common Barn Owl	Lokkhi Pecha
9	Otus lettia	Collared Scops Owl	Konthi Nimpecha
10	Ketupa zeylonensis	Brown Fish Owl	Koyra Mechopecha
11	Elanus auxillaris	Black-shouldered Kite	Katua Chil
12	Chloropsis cochinchinensis	Blue-winged Leafbird	Neeldana Horbola
13	Lanius tephronotus	Grey-backed Shrike	Metepith Latora
14	Coracina melanoptera	Black-headed Cuckooshrike	Kalamatha Kabashi
15	Pericrocotus roseus	Rosy Minivet	Golapi Saheli
16	Pericrocotus cantonensis	Brown-rumped Minivet	Suinhoe Saheli
17	Pericrocotus divaricatus	Ashy Minivet	Metey Saheli
18	Oriolus chinensis	Black-naped Oriole	Kalaghar Benebou
19	Artamus fuscus	Ashy Woodswallow	Metey Bonababil
20	Pinia inornata	Plain Prinia	Nirol Prina
21	Phylloscopus affinis	Tickell's Leaf Warbler	Tikeler Patafutki
22	Phylloscopus trochiloides	Greenish Warbler	Sobje Futki
23	Phylloscopus reguloides	Blythe's Leaf Warbler	Blaither Patafutki
24	Abroscopus supercillius	Yellow-bellied Warbler	Holdepet Futki
25	Calandrella raytal	Indian Short-toed Lark	Bali Bhorot
26	Alauda gulgula	Oriental Skylark	Udoi Avrabhorot
27	Saxicola torquatus	Common Stonechat	Pati Shilafidda
28	Monticola solitaries	Blue Rock-thrush	Neel Shiladama

SL.No.	Species Name	Common Name	Local name
29	Muscicapa daurica	Asian Brown Flycatcher	Asio Khoirachutki
30	Muscicapa muttui	Brown-breasted Flycatcher	Metebuk Chutki
31	Eumyias thalassinus	Verditer Flycatcher	Ambar Chutki
32	Culicicapa ceylonensis	Grey-headed Canary Flycatcher	Metematha Kenarichutki
33	Anthreptes singalensis	Ruby-cheeked Sunbird	Chunimukhi Moutushi
34	Ploseus philippinus	Baya Weaver	Deshi Babui
35	Motacilla flava	Yellow Wagtail	Holdey Khonjon
36	Motacilla cinerea	Grey Wagtail	Metey Khonjon
37	Anthus hodgsoni	Olive-backed Pipit	Jolpaipith Tulika
38	Anthus roseatus	Rosy Pipit	Golapi Tulika



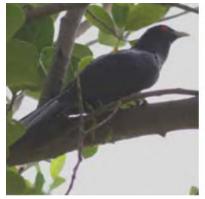
Chestnut Headed Bee-eater







 $Pied\ Kingfisher$



Western Koel



Greater Coucal



Rose-ringed Parakeet



Brown Boobook



Large-tailed Nightjar



Yellow-footed Green Pigeon



Grey-capped Emerald Dove



Red Turtle Dove



White-breasted Waterhen



Green Sandpiper



Bronze-winged Jacana



Red-wattled Lapwing





Common Kestrel



Little Grebe



Oriental Darter



Little Cormorant



Grey Heron



Green-backed Heron



Asian Openbill



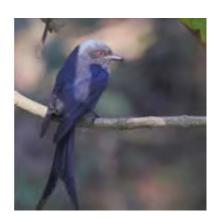
Large Cuckooshrike



Small Minivet



Bronzed Drongo



Ashy Drongo



White-throated Fantail



Orange-headed Thrush



Oriental Magpie Robin



Chestnut-tailed Starling



Jungle Myna



Red-whiskered Bulbul



Grey-breasted Prinia



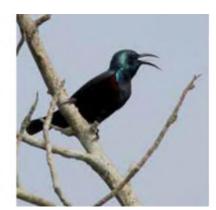
Common Tailorbird



Striated Babbler



Scarlet-backed Flowerpecker



Purple Sunbird



White Wagtail



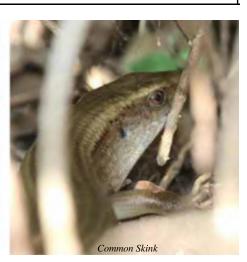


Paddyfield Pipit Birds observed in KEPZ Tricoloured Munia

	Reptiles				
SL.No.	Species Name	Common Name	Local name		
1	Dendrelaphis tristis	Common Bronzeback Tree Snake	Bet Anchra, ShadharaonGeso Shap		
2	Amphiesma stolatum	Buff Striped Keelback	DagiDhora Shap		
3	Ptyas korros	Chinese Rat Snake	Darash Shap		
4	Lycodon capucinus	Common Wolf Snake	Gharginni Shap		
5	Hemidactylus frenatus	Common House Gecko	MosrinTiktiki		
6	Eutropis carinata	Common Skink	Anjhon,Anchil		
7	Gekko gecko	Tokay Gecko	Tokkhak		
8	Calotes versicolor	Common Garden Lizard	Roktochosa		
9	Varanus bengalensis	Bengal Monitor	Gui Shap		







Reptiles observed in KEPZ

	Amphibians					
SL.No.	Species Name	Common Name	Local name			
1	Hoplobatrachus tigerinus	Indian Bullfrog	Sona Bang; Kola Bang			
2	Polypedates sp.	Tree Frog	Gecho Bang			
3	Microhyla berdmorei	Berdmore's narrow-mouthed Frog	BoroLaubichi Bang			
4	Euphlyctis sp.					
5	Fejervarya sp.					
6	Bufo bufo	Common Toad	Kuno Bang, Kona Bang			
7	Hylaranatytleri	Yellow-striped Frog	Pana Bang			



Amphibians observed in KEPZ

Butterflies		SI. No.	Species Name	Common Name	
SI. No.	Species Name	Common Name	32	Hypolimnas bolina	Great Eggfly
1	Papilio clytia	Common Mime	33	Junonia almana	Peacock Pansy
2	Papilio polythes	Common Mormon	34	Junonia atlites	Grey Pansy
3	Papilio demoleus	Lime Butterfly	35	Junonia hierta	Yellow Pansy
4	Triodes helena	Common Birdwing	36	Junoniaiphita	Chocolate Pansy
5	Pachliopta aristolochiae	Common Rose	37	Junonia lemonias	Lemon Pansy
6	Appias labythea	Striped Albatross	38	Lethe Europa	Bamboo Treebrown
7	Catopsilia pomona	Common Emigrant	39	Melanitis leda	Common Evening Brown
8	Leptosia nina	Psyche	40	Moduza procris	Commander
9	Delias discombesi	Red Spot Jezebel	41	Mycalesis persus	Common Bushbrown
10	Delias pasitho	Red Base Jezebel	42	Mycalesis mineus	Dark-banded Bushbrown
11	Delias eucharis	Painted Jezebel	43	Mycalesis visala	Long-banded Bushbrown
12	Delias hyparete	Common Jezebel	44	Neptis hylas	Common Sailor
13	Eurema hecabe	Common Grass Yellow	45	Neptis jumbah	Chestnut-streaked Sailor
14	Eurema blanda	Three Spot Grass Yellow	46	Pantoporia hordonia	Common Lascar
15	Hebomoia glaucippe	Great Orange Tip	47	Partenos sylvia	Clipper
16	Pareronia valeria	Common Wanderer	48	Tirumala limniace	Blue Tiger
17	Appias lyncida	Chocolate Albatross	49	Phalanta phalanta	Common Leopard
18	Catopsilia pyranthe	Mottled Emigrant	50	Polyura athamas	Common Nawab
19	Eurema andersoni	One Spot Grass Yellow	51	Cynitia lepidea	Grey Count
20	Acraea violae	Tawny Coster	52	Tanaecia julii	Common Earl
21	Ariadne ariadne	Angled Castor	53	Ypthima baldus	Common Fivering
22	Ariadne merione	Common Castor	54	Ypthima huebneri	Common Fourring
23	Athyma perius	Common Sergeant	55	Cirrochroa tyche	Common Yeoman
24	Athyma nefte	Color Sergeant	56	Vagran segista	Vagrant
25	Cethosia cyane	Leopard Lacewing	57	Anthene emolus	Ciliate Blue
26	Cupha erymanthis	Rustic	58	Anthene lycaenina	Pointed Ciliate Blue
27	Danaus chrysippus	Plain Tiger	59	Caleta decidia	Angled Pierrot
28	Danaus genuta	Striped Tiger	60	Castalius rosimon	Common Pierrot
29	Discophora sondaica	Common Duffer	61	Discolampa ethion	Banded Blue Pierrot
30	Elymnias hypermnestra	Common Palmfly	62	Carochrysops strabo	Forget Me Not
31	Euthalia aconthea	Common Baron	63	Chilades lajus	Lime Blue

	Butterfly			Species Name	Common Name
Sl. No.	Species Name	Common Name	75	Arhopala agaba	Purple Glazed Oakblue
64	Euchrysops cnejus	Gram Blue	76	Ampittiadio scorides	Bush Hopper
65	Jamides celeno	Common Cerulean	77	Ancistroides nigrita	Chocolate Demon
66	Jamides bochus	Dark Cerulean	78	Matapa aria	Common Red Eye
67	Lempides boeticus	Pea Blue	79	Gangara thyrsis	Giant Red Eye
68	Neopithecops zalmora	Quaker	80	Taiades japetus	Common Snow Flat
69	Pseudozizeeria maha	Pale Grass Blue	84	Pelopidas agna	Dark Banded Swift
70	Rapala manea	Slate Flash	81	Telicota bambusae	Dark Palm Dart
71	Zizula hylax	Tiny Grass Blue	82	Suastus gremius	Palm Bob
72	Zizina otis	Lesser Grass Blue	83	Suastus minuta	Small Palm Bob
73	Zazeeria karsandra	Dark Grass Blue	85	Parnana	Parnara
74	Charana mandarinus	Mandarin Blue	86	Zemoros flegyas	Punchinello

















RUSTIC

COMMON BARON

COMMON LIME



GREY PANSY



COMMON PALMFLY



COMMON EVENING BROWN



YELLOW PANSY



PEACOCK PANSY



POINTED CILIATE BLUE



CILIATE BLUE



COMMON YEOMEN



COMMON FOURRING







COMMON SNOWFLAT











CHOCOLATE DEMON









LIME BLUE



GREY COUNT



COMMON LASCAR



PUNCHINELLO



COMMON EARL



GIANT RED EYE



COMMON SAILER



MANDARIN BLUE



COMMON CERULEAN



SLATE FLASH



BLUE TIGER



CLIPPER



BUSH HOPPER



COMMON PIERROT



PURPLE GLAZED OAKBLUE



COMMON NAWAB



COMMON RED EYE



ANGLED PIERROT



BANDED BLUE PIERROT



CHESTNUT STREAKED SAILER



DARK PLAM DART



LESSER GRASS BLUE



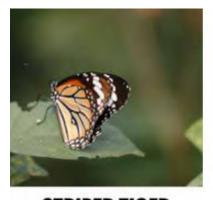
PEA BLUE



DARK GRASS BLUE



DARK BANDED BUSHBROWN



STRIPED TIGER



ANGLED CASTOR



COMMON GRASS YELLOW







PAINTED JEZEBEL









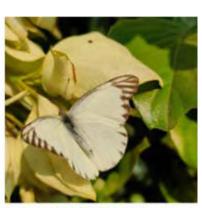
COMMON EMIGRANT



GREAT EGGFLY



COMMON CASTOR



STRIPED ALBATROSS







COMMON MORMON

CHOCOLATE ALBATROSS







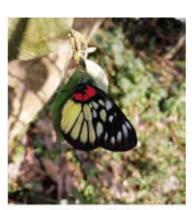
COMMON JEZEBEL



COMMON ROSE



COMMON BIRDWING



RED BASE JEZEBEL

Dragonflies and damselflies					
SI. No.	Species Name	Common Name	Sl. No.	Species Name	Common Name
1	Agriocnemis pygmaea	Pygmy Dartlet	11	Crocothemis servilia	Ruddy Marsh Skimmer
2	Agriocnemis lacteola	Milky Dartlet	12	Potamarcha congener	Yellow-tailed Ashy Skimmer
3	Agriocnemis femina	Pruinosed Dartlet	13	Rhyothemis variegata	Common Picture Wing
4	Ischnurarubilio	Western Golden Dartlet	14	Brachythemis contaminata	Ditch Jewel
5	Pseudagrion rubriceps	Saffron-faced Blue Dart	15	Neurothemis fulvia	Fulvous Forest Skimmer
6	Onychargia atrocyana	Black Marsh Dart	16	Neurothemis tullia	Pied Paddy Skimmer
7	Ceriagrion coromandelianum	Coromandel Marsh Dart	17	Pantala flavescens	Wandering Glider
8	Ceriagrion cerinorubellum	Orange-tailed Marsh Dart	18	Diplacodes trivialis	Ground Skimmer
9	Orthetrum sabina	Green Marsh Hawk	19	Tholymis tillarga	Coral-tailed Cloud Wing
10	Trithemis pallidinervis	Long-legged Marsh Glider	20	Brachydiplax sp	-



SAFFRON-FACED BLUE DART



YELLOW TAILED ASHY SKIMMER



ORANGE TAILED MARSH DART



BLACK MARSH TROTTER



CRIMSON-TAILED MARSH HAWK



GREEN MARSH HAWK







RUDDY MARSH SKIMMER

COROMANDAL MARSH DART



DITCH JEWEL



FULVOUS FOREST SKIMMER



GROUND SKIMMER



CORAL TAILED CLOUD WING



MILKY DARTLET



LONG LEGGED MARSH GLIDER