



BHOJ WETLAND WINTER BIRD COUNT 2020-21

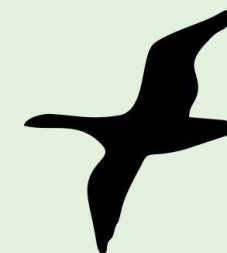
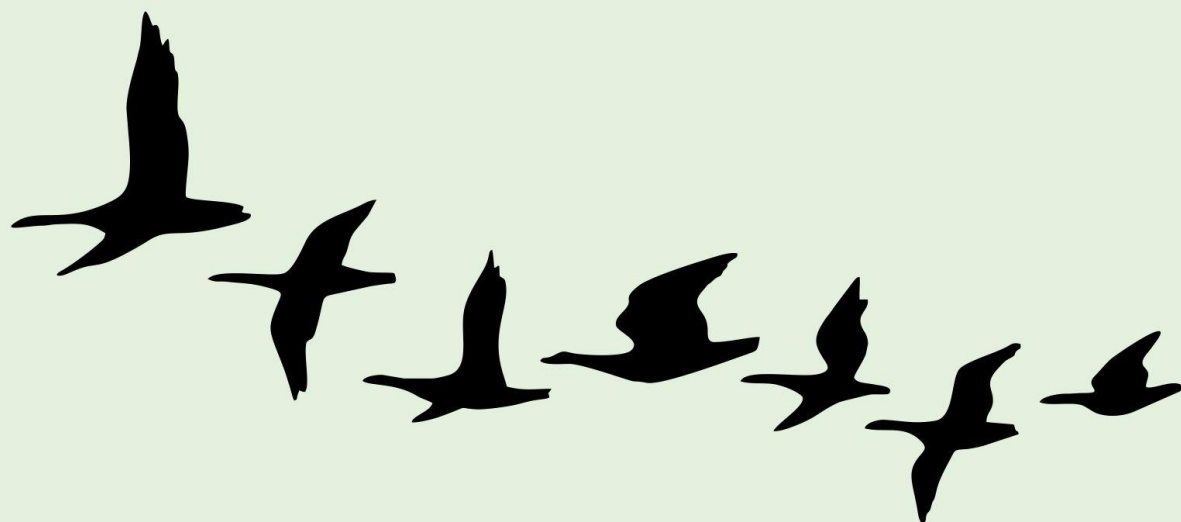
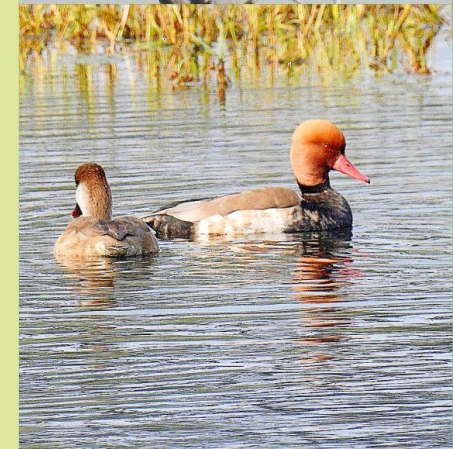
An Estimated Count Report

Organized By :

Bhopal Birds Conservation Society

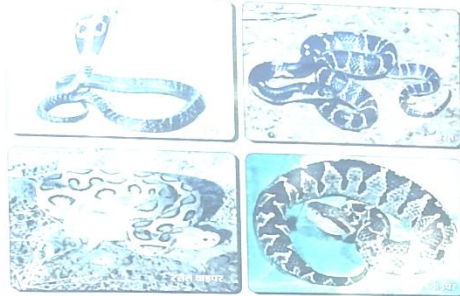
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MP Ecotourism Development Board,
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विषेले सर्प



Bhoj Wetland Winter Bird Count

13 to 24 December 2020



Organized by
Bhoj Wetland Conservation Society
Supported by
Government of India, New Delhi
National Wildlife Conservation Society, Bhopal

**BHOJ WETLAND WINTER BIRD
COUNT 2020-21**
An Estimated Count Report



**ORGANISED BY
BHOPAL BIRDS CONSERVATION SOCIETY**

**SUPPORTED BY
MADHYA PRADESH ECOTOURISM DEVELOPMENT BOARD
VAN VIHAR NATIONAL PARK
AND
VNS NATURE SAVIOURS**



कुंवर विजय शाह
वन मंत्री
मध्य प्रदेश शासन

शुभकामना संदेश

अत्यंत हर्ष का विषय है कि मध्यप्रदेश ईकोपर्यटन विकास बोर्ड, वन विहार राष्ट्रीय उद्यान एवं वी.एन.एस. नेचर सेवियर्स, भोपाल के समन्वित प्रयास से भोपाल बर्ड्स कंजर्वेशन सोसाइटी द्वारा भोपाल की विश्व प्रसिद्ध झील के भोज वेट लैंड क्षेत्र में वेट लैंड विंटर बर्ड काउंट वर्ष 2020-21 का आयोजन शीत ऋतु में किया गया। भोज वेट लैंड भोपाल की पक्षी विविधता अपने आप में अत्यंत आकर्षक, महत्वपूर्ण और पर्यावरण की दृष्टि से ज्ञानवर्धक है। सर्वेक्षण समूह में शामिल छात्रों एवं विशेषज्ञों द्वारा पक्षियों की 187 प्रजातियों की 51948 अनुमानित संख्या का अवलोकन एवं अभिलेखन करना भी एक महत्वपूर्ण और रेखांकित किये जाने वाला कार्य है।

उपरोक्त महत्वपूर्ण कार्य निष्पादित एवं प्रकाशित किए जाने पर मैं सभी सहभागी संस्थाओं को धन्यवाद देता हूँ और कामना करता हूँ कि प्रतिवर्ष इस कार्य को लगातार करते हुए वैज्ञानिक एवं तकनीकी आकड़ों का पर्यावरण संरक्षण में प्रभावी उपयोग किया जाएगा जिससे भोजताल के स्वास्थ्य का निरंतर आकलन होता रहेगा।

शुभकामनाओं सहित,

(कुंवर विजय शाह)

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भा.व.से.
मुख्य कार्यपालन अधिकारी
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शुभकामना संदेश

भोज वेटलैंड, भोपाल विश्व की सुप्रसिद्ध रामसर साईट में से एक है। इस रामसर साईट में भोपाल का बड़ा तालाब एवं छोटा तालाब सम्मिलित है। बड़ा तालाब 11वीं शताब्दी में कोलांस नदी में मानव निर्मित झील है। जबकि छोटा तालाब लगभग 200 वर्ष पहले निर्मित किया गया था। 31 वर्ग कि.मी. की इस भोज वेटलैंड में स्थानीय एवं प्रवासी पक्षी तथा इसमें पक्षियों के साथ ही फाइटोप्लैंकटन, जू-प्लेकटन, मेक्रोफाइट्स, कीट, उभयचर, सरीसृप एवं मछलियों की विभिन्न प्रजातियां पाई जाती हैं जो पक्षियों का आहार भी है। भोपाल बर्ड्स कंजर्वेशन सोसाइटी द्वारा वर्ष 2020-21 में की गई अनुमानित गणना में मध्यप्रदेश ईकोपर्यटन विकास बोर्ड, वन विहार राष्ट्रीय उद्यान एवं वी.एन.एस. नेचर सेवियर्स, भोपाल ने आर्थिक, तकनीकी एवं पक्षी विज्ञान से संबंधित संसाधन उपलब्ध कराए हैं, जो समाज के हर वर्ग को सम्मिलित कर वैज्ञानिक अध्ययन को मान्यता प्रदान करने का प्रयास है। यहाँ यह उल्लेख करना भी समाचीन होगा कि बर्ड वाचिंग ईकोपर्यटन का एक महत्वपूर्ण घटक है।

आलोच्य वर्ष में 53 फैमली की 187 पक्षी प्रजातियों के 51,948 पक्षियों की अनुमानित गणना के समंक (डाटा) सामने आए हैं, जिनमें आई.यू.सी.एन. द्वारा उल्लेखित 8 संकटग्रस्त प्रजातियां भी सम्मिलित हैं। लाल सिर बतख (रेड क्रिस्टेड पोचर्ड) की 13000 संख्या गणना में पाया जाना भी उल्लेखनीय है। ये सभी वैज्ञानिक अध्ययन आने वाले अनुसंधानकर्ताओं के लिए बैच मार्क का कार्य करेंगे।

इस वैज्ञानिक एवं वृहद अध्ययन के लिए मैं सभी प्रतिभागी संस्थानों एवं छात्रों, पक्षी विज्ञानियों, पक्षी प्रेमियों महाविद्यालयों के शिक्षकगणों और वैज्ञानिकों का आभार ज्ञापित करता हूँ और आशा करता हूँ कि भविष्य में भी इस तरह के अध्ययनों की सततता बनाए रखेंगे।

शुभकामनाओं सहित,


(सत्यानंद) भा.व.से.

Bhoj Wetland Winter Bird Count 2020-21

An Estimated Count Report

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Acknowledgment

We would like to thank Madhya Pradesh Forest Department, Bhopal Birds Conservation Society, Van Vihar National Park and VNS Group of Institution for their kind support.

I would like to express my special thanks to Dr. Sanjay Shukla (IFS, APCCF-IT, Madhya Pradesh Forest Department), Mrs. Kamalika Mohanta (IFS, Director, Van Vihar National Park, Bhopal), Dr. D.K Swamy (Group Director, VNS), Dr.Pradip Nandi (DG,NCHSE) and Mr.Dilsher Khan (Vulture Conservationist) for their constant support and hard work.

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Published By: Madhya Pradesh Ecotourism Development Board

Compiled & Designed By: Madhya Pradesh Ecotourism Development Board, Bhopal

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Copies of this publication are available from

MP Ecotourism Development Board,

Urja Bhawan, Shivaji Nagar, Bhopal – 462016

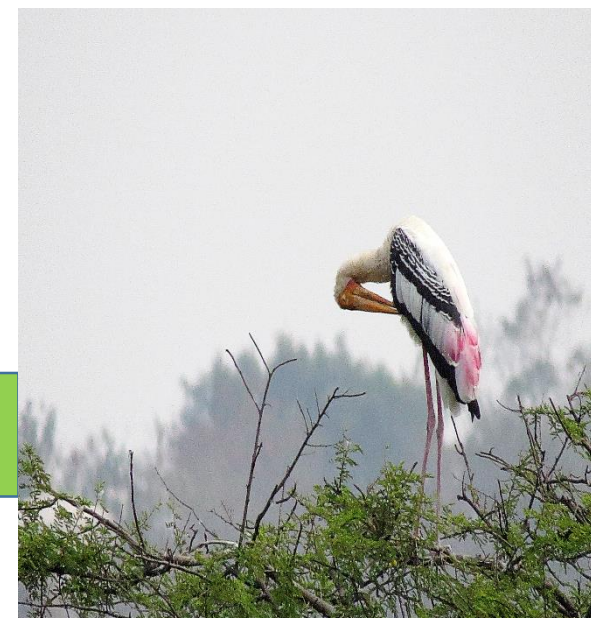
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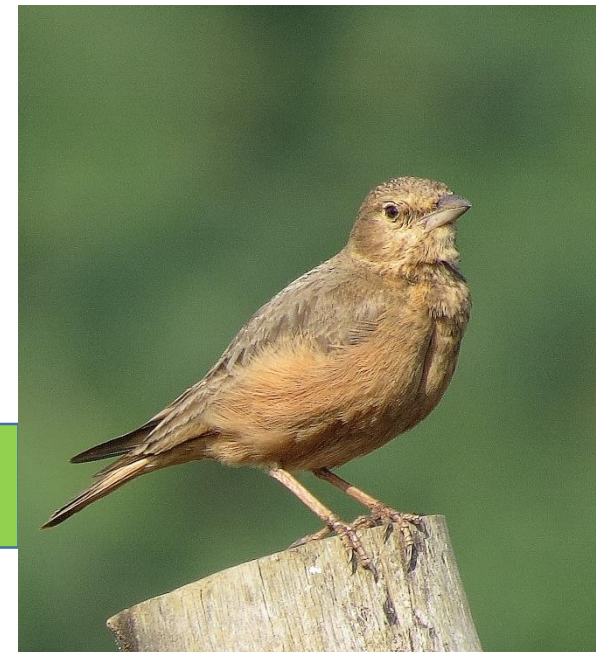
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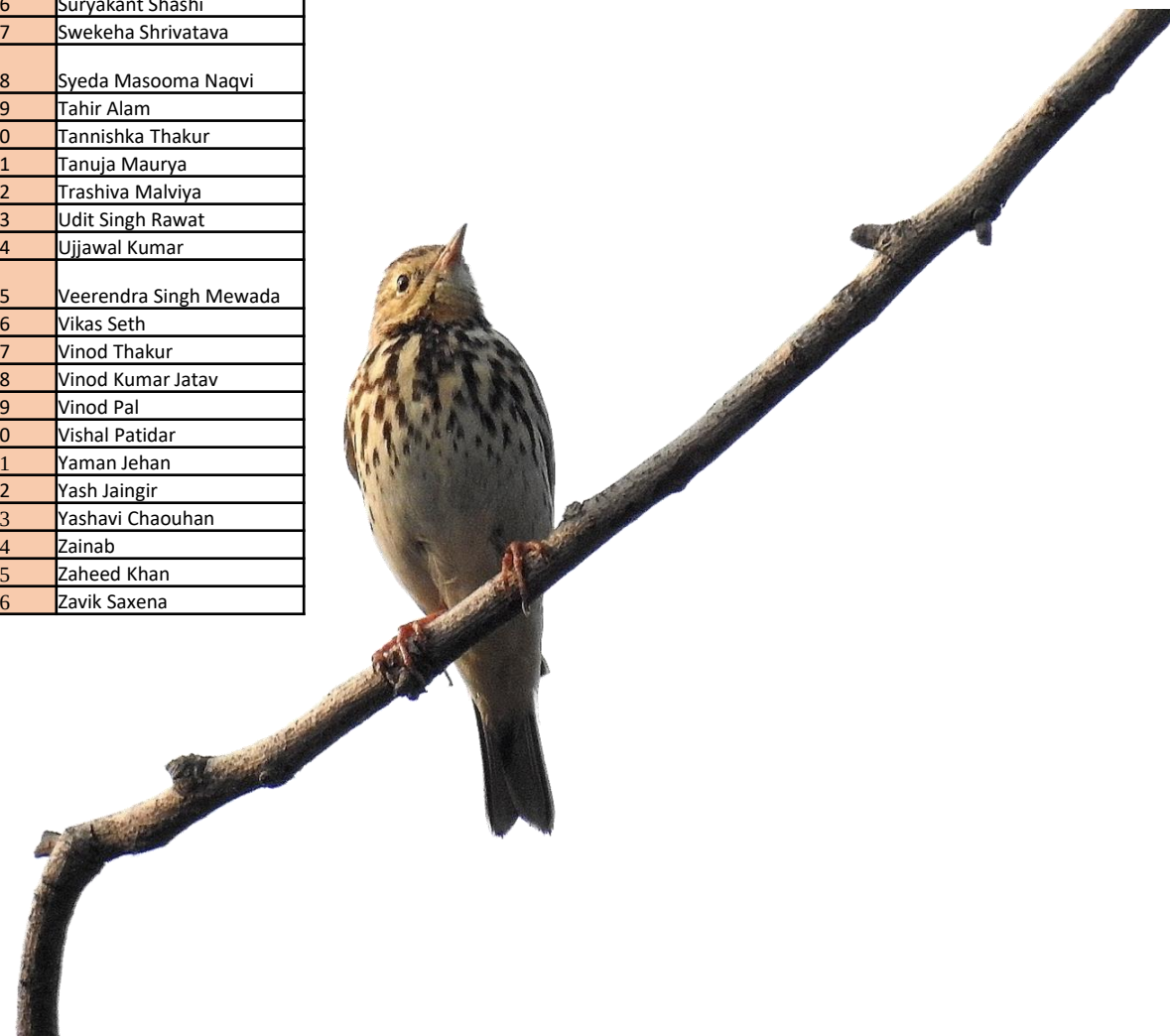
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						144	Zainab
						145	Zaheed Khan
						146	Zavik Saxena



REPORT AT A GLANCE



**53 Families of Birds
Observed**



**187 Species of
Birds Recorded**



**51,948 Total Estimated
Population of Birds
Recorded**



**8 Threatened Species of
Birds Reported As Per
IUCN Category**



**Red Crested Pochard found
highest populated species with
Estimated population of
12,999**



**Blue-capped Rock Thrush
Observed first time in Bhopal
during count**

1.INTRODUCTION

The avian diversity of Bhoj Wetland is quite unique but surprisingly no comprehensive bird count was done till 2019. In year 2020-21 Madhya Pradesh Ecotourism Development Board, Bhopal took initiative to conduct Bhoj Wetland Winter Bird Count (Estimation). Bhopal Birds in association with Van Vihar National Park, Bhopal and VNS Nature Saviours conducted a comprehensive bird count with technical experts/scientists and Trained volunteers.

This time, we aimed to explore a large section of Bhoj Wetland. This count covered avian diversity and abundance in Bhoj Wetland, Bhopal found in wetland as well as terrestrial area. Rare, Endangered and Threatened (RET) bird species, niche of the particular species, migratory birds population etc. also covered in this count.





आयोजन में सहभागी

मध्य प्रदेश राज्य जैव विविधता बोर्ड

वन विहार राष्ट्रीय उद्यान-जू

BHOJ WETLAND WINTER BIRD COUNT 2020-21

31st Jan. to 2nd Feb., 2021

Organized By
Bhopal Birds Conservation Society
Supported by
MP Tourism Board
Van Vihar National Park
&
VNS Nature Saviors, Bhopal

आयोजन में सहभागी

मध्य प्रदेश इकोपर्यटन विकास बोर्ड
(म.प्र. शासन वन विभाग)

Erica Erica Erica Erica



2.SITE DESCRIPTION

The Upper lake is very rich in biodiversity, particularly Resident and Migratory birds, Macrophytes, phytoplankton, Zooplankton, both Natural and Cultured fish species, Insects, Reptiles and Amphibians.

Bhoj Wetland comprises two contiguous man-made reservoirs, the "Upper Lake" and the "Lower Lake". The Upper Lake was created by Raja Bhoj in the 11th century by the construction of an earthen dam across the Kolans river and the Lower Lake was constructed nearly 200 years ago, largely from the overflow of water from the Upper Lake. Both the lakes are urban waterbodies located in the fast growing city of Bhopal, the state capital of Madhya Pradesh.

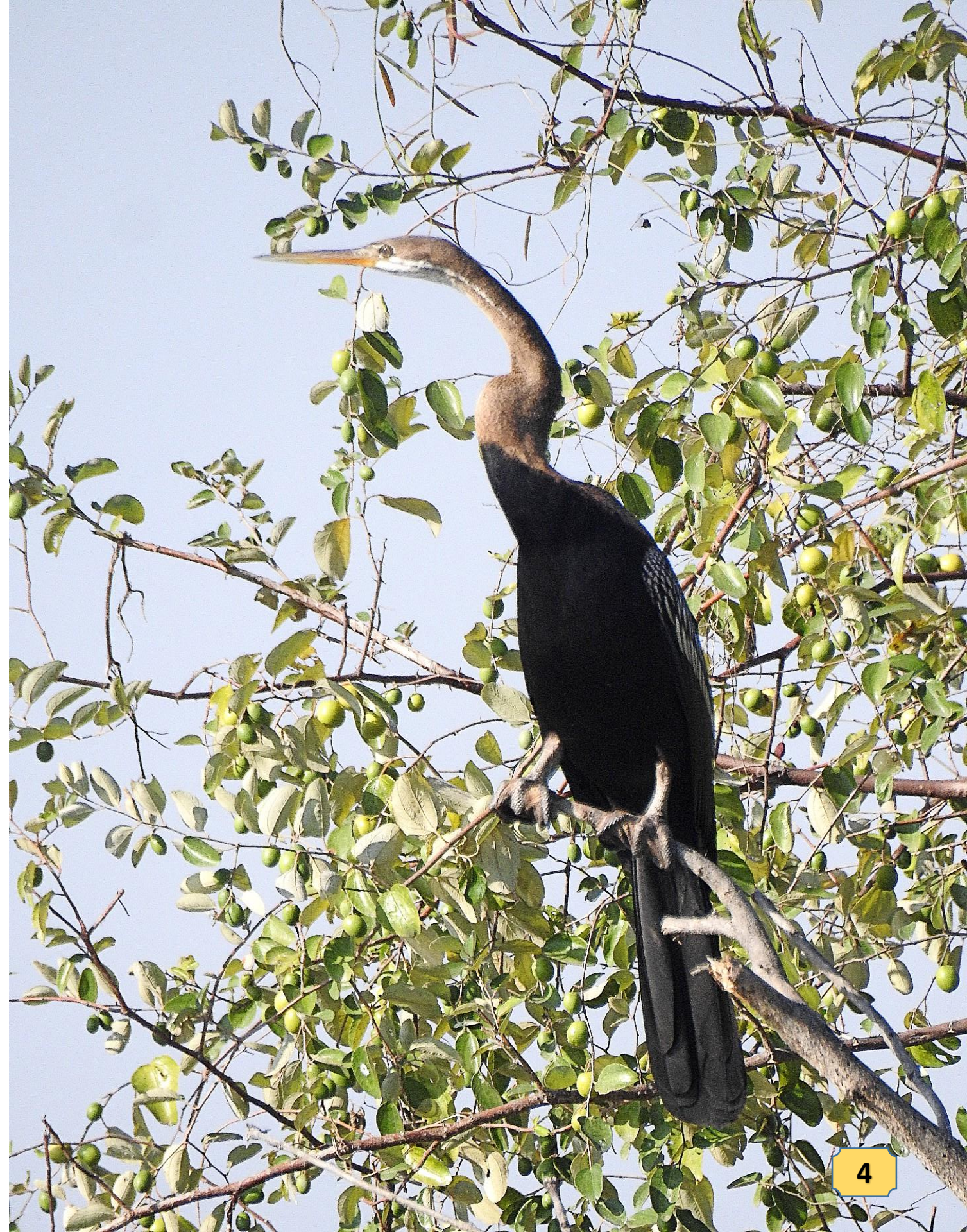
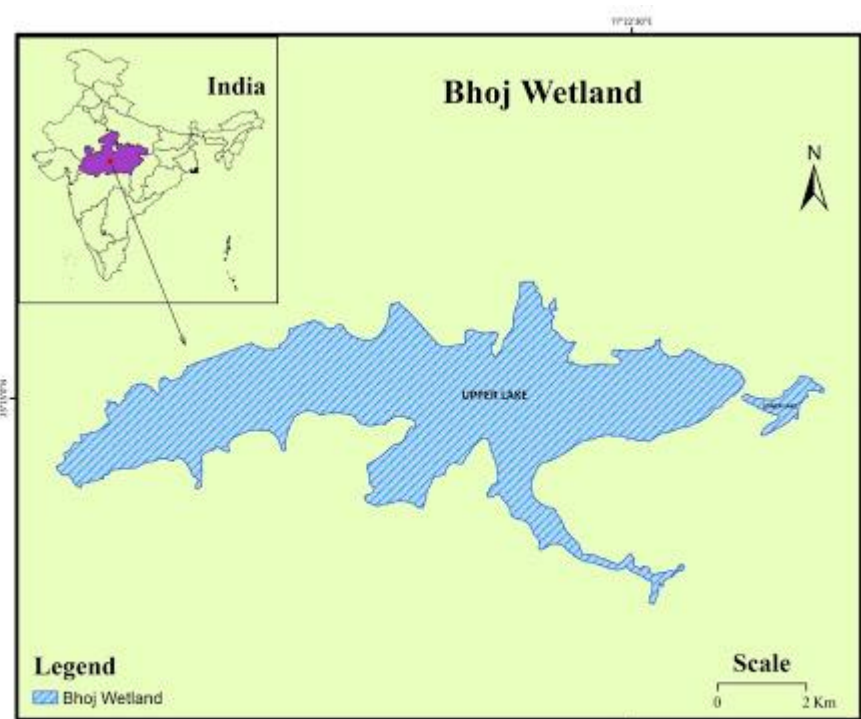


Bhoj Wetland was designated as a Ramsar site in November 2002. Total Area of the wetland is 31Km². The Upper Lake is surrounded by Van Vihar National Park on the south, human settlements on the east and north, Agriculture fields on the west. The Lower Lake is surrounded by human settlements on all sides. The Upper Lake is a major source of potable water for Bhopal.

A management action plan has been implemented since 1995, with financial support from the Government of Japan. As part of this management plan, to follow up the impact on birds, 18-month study was undertaken in 2000-01, which helped in documenting the avifauna of the site. During this study, more than 20,000 waterbirds (A4iii criteria) of Ramsar Site were recorded.



A belt of deciduous forest, with cliffs and steep contours towards the south eastern boundary comprises Van Vihar National Park. The greater part of the long western and southwestern peripheries of the site is covered with a mix of semi desert and secondary scrub, semi-arid grassland, arable land, improved pasture land, and perennial crop cultivation and forestry plantation.



3. AIMS & OBJECTIVES

1. To prepare a database of estimated winter birds population in Bhoj Wetland, Bhopal. .
2. To find out the RET species existing in the site.
3. To prepare a complete checklist of birds in migratory season.
4. This information was used to determine the likely risk of impact on birds and local bird conservation from the proposed development of the bhopal city, and to recommend precautionary measures , compensation of habitats or mitigation to prevent harm on birds, if necessary.

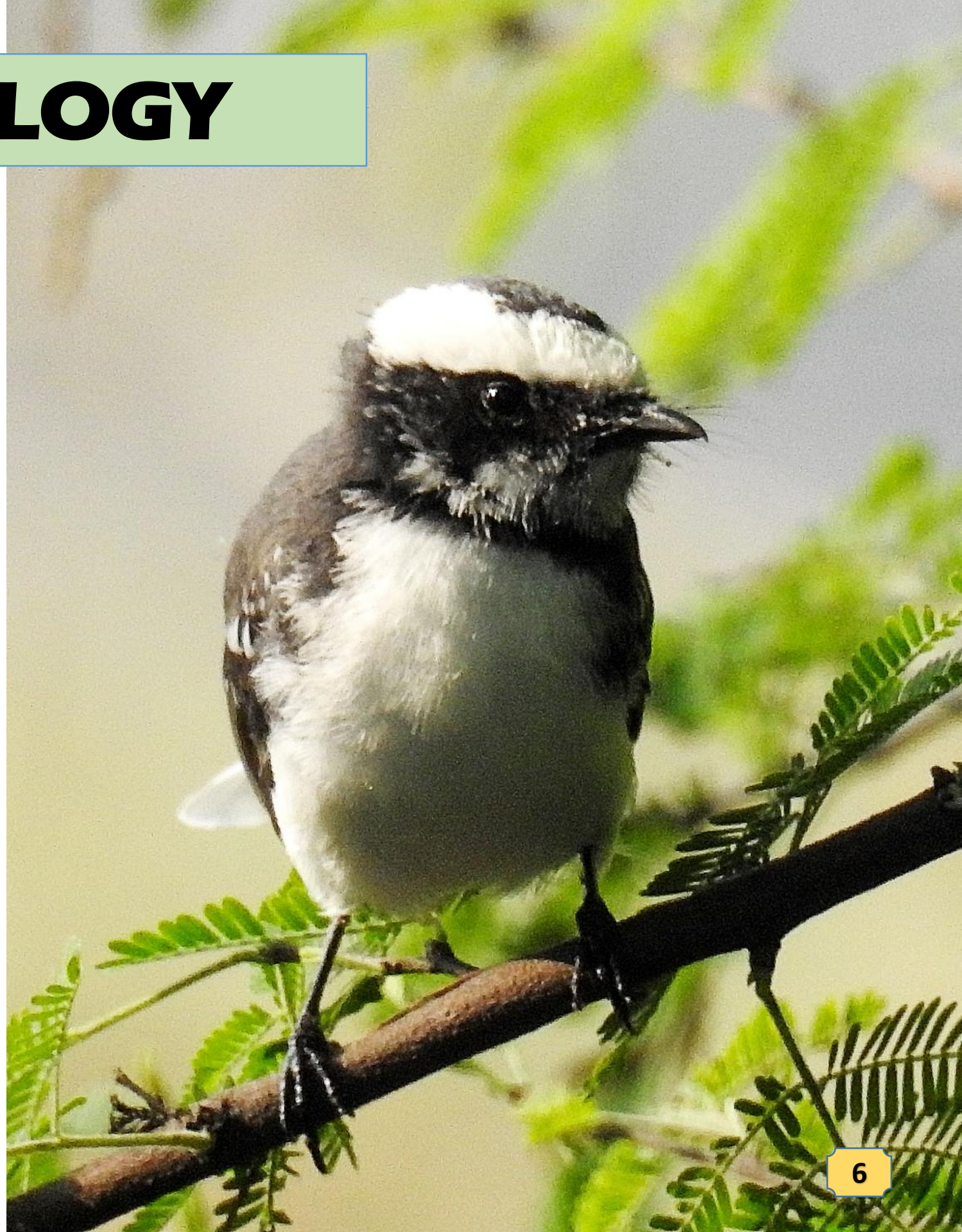


4.METHODOLOGY

Count was conducted in optimal and extremely cold weather conditions (Dry, with little/ Moderate wind) and during the peak migratory season (December & February). The duration of count was approximately four to six hours.

Count was undertaken on the 13th December, 17th December 21st December, 23rd December 24th December 2020 and 31st January, 1st February, 2nd February 2021 within 4 hours of dawn when territorial behavior is usually at its peak. Nocturnal birds is also observed in some unprotected parts of Bhoj Wetland.

Total of 20 Kms. distance is covered by foot and vehicle . All birds seen or heard were recorded in a observation sheet along with any significant behavior and photographic evidence.



Birds were counted by standard techniques as per habitat and species. In this count three methods were permanently used-

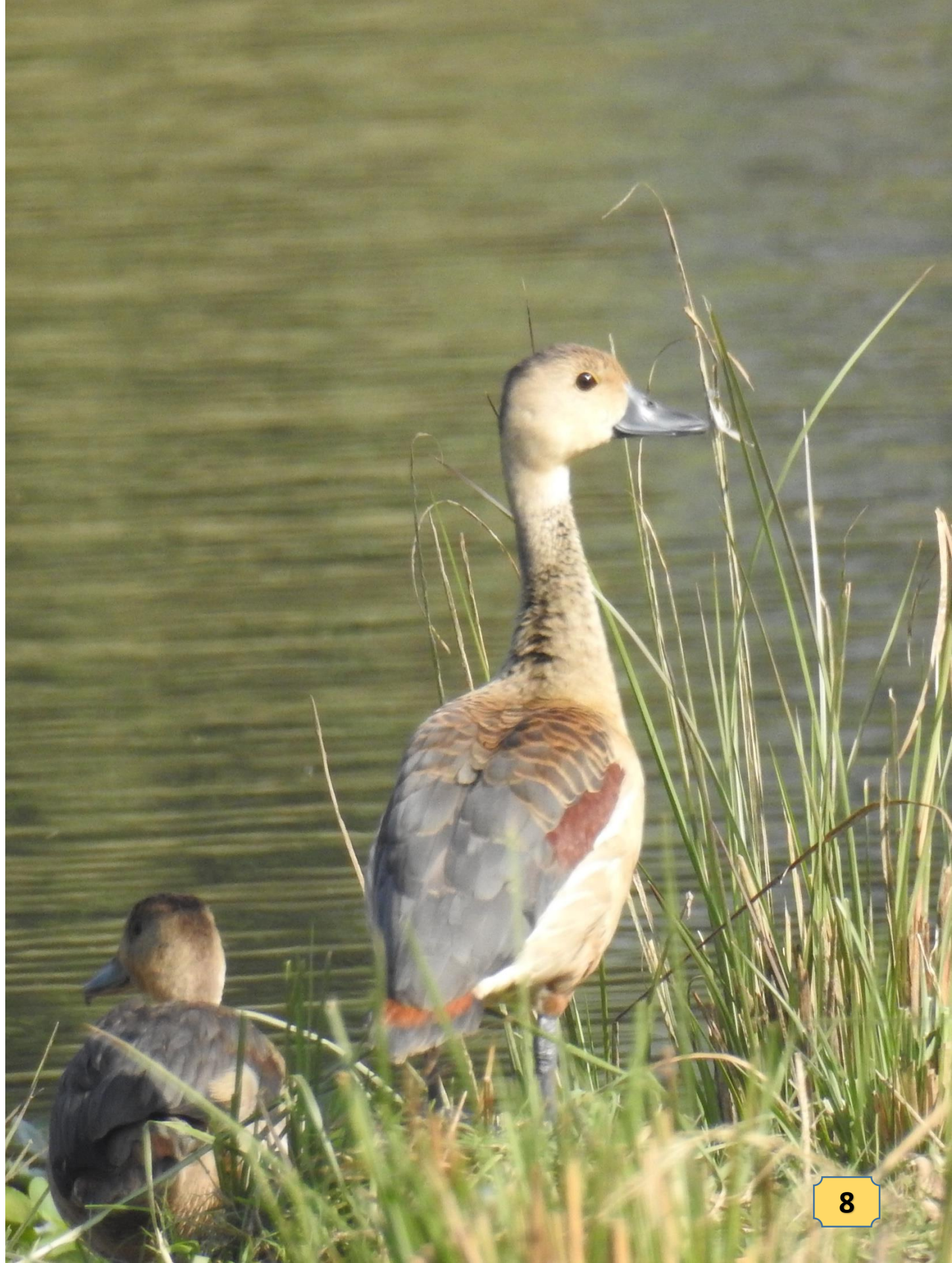
1. Point Count Method-This method is used in all the definite sites of Bhoj wetland. In this method, observers records all the birds seen and heard from a point count station for a set period of time (Approx. 10 to 20 minutes) and a transect of field was completed within 4 hours. A series of point count completed over a fixed route in different days at same time interval than results was compared and maximum count of each species considered as total population of the certain species of the season. This method is used generally for all species .

2. Grid Count or Block Count Method-This method is used for large sized stationary flocks as Ducks, Cormorant, Water hens and Small wader species. In this method the field view or whole flock was divided into imaginary grids of even sections, and the bird in one section are counted as close to individually as possible. This counts was repeated in all days of counts and compared the population.



of each species. Maximum count of each species was considered total population of species.

3. Direct count method - This method is good way to estimate species diversity and population size and determine the cause of the changes if environmental or habitat data is collected as well. This method is used to count roosting birds small flocks, large sized diurnal migrants, and many raptors. Each species was counted directly when they are stationary or in flying state. This counts were recorded in all the days of counts in all stations and all the counts were compared and maximum count was considered as total count of the species in the season.



COORDINATION COMMITTEE MEETING

A meeting was held on 10th December, 2020 at Van Vihar National Park on planning of bird count of Bhoj Wetland of year 2020-21. The meeting organized by Bhopal Birds Conservation Society with supporting agencies MP Ecotourism Board, Van Vihar National Park and VNS Nature Saviours, committee member and experts of birds. The purpose of meeting was to planning the frame work of count and its implementation. The meeting was chaired by Mr. Satyanand (CEO, MPEDB), Dr. Sanjay Shukla (APCCF-IT) and Mrs. Kamalika Mohanta (Director, VVNP). Mr. Ashok Kumar Jain (Asst. Director, VVNP), Mr. Dilsher Khan (Bird conservationist) ,Dr. Vipin Dhote and Dr. B.S.Bhadouriya (VNS Nature Saviours) , Dr. Pradip Nandi (DG, NCHSE) , Mohd. Khalique (Bhopal Birds) and Dr. Sangeeta Rajgir (Bhopal Birds) were also present in this meeting.

After introductive session a brief PPT Presentation on count was given by Dr. Sangeeta Rajgir includes need and techniques of Bird Count.

Mr. Mohd Khalique described different zones of counts and dates of pre and final counts. The chaired officials and other experts were discussed on the dates and zones of the count and suggest digitalization of data and also assured to give support to the program.

Vote of thanks to all members was given by Mr. Mohd Khalique.





5.COUNT DESIGN

The count was conducted in a participatory manner with observers in form of participants along with Birdwatchers, Researchers and Experts. Total 146 trained volunteers were selected for both count sessions. The survey was designed to cover all parts of Bhoj Wetland (Upper & Lower Lake). Total 8 counts were done in which there is 4 Pre-counts and 4 Final Counts. Count was done by dividing the entire area of Bhoj Wetland into 5 Zones. Participants were divided into 5 teams. Each team had a experienced bird experts.

Pre workshop on count techniques and identification of avian species was organized on online platform.



SCHEDULE

BHOJ WETLAND WINTER BIRD COUNT 2020-21 13th to 24th DECEMBER 2020

S.no	Dates	Route	Time
1	13 th December, 2020 (Sunday) Pre- Count	Route-1:Iconic school to CPA Plantation Route-2:Bahmori Village to Bahmori Plantation Route-4:Borvan entry park to Borvan park end point Route-5:Lower lake to Borvan	7.00 am to 12.00 pm
2	17 th December, 2020 (Thursday) Pre-Count	Route-3:Van Vihar National Park Gate-1 to Gate-2	7.00 am to 11.00 am
3	20 th December,2020 (Sunday) Pre-Count	Route-1:Iconic school to CPA Plantation Route-2:Bahmori Village to Bahmori Plantation Route-4:Borvan entry park to Borvan park end point Route-5:Lower lake to Borvan	7.00 am to 12.00 pm
4	21 st December,2020 (Monday) Pre-Count	Route-3:Van Vihar National Park Gate-1 to Gate-2	7.00 am to 11.00 am
5	24 th Decemeber,2020 (Thursday) BWBC Final Count	Route-1:Iconic school to CPA Plantation Route-2:Bahmori Village to Bahmori Plantation Route-3:Van Vihar National Park Gate-1 to Gate-2 Route-4:Borvan entry park to Borvan park end point Route-5:Lower lake to Borvan	7.00 am to 1.00 pm

SCHEDULE

BHOJ WETLAND WINTER BIRD COUNT 2020-21
31st JANUARY TO 2nd FEBRUARY 2021

S.no	Dates	Route	Time
1	31 st January, 2021 (Sunday) Final Count	Route-1:Iconic school to CPA Plantation Route-2:Bahmori Village to Bahmori Plantation Route-4:Borvan entry park to Borvan park end point	7.00 am to 12.00 pm
2	1 st February, 2021 (Monday) Final Count	Route-5:Lower lake to Borvan	7.00 am to 11.00 am
3	2 nd February ,2021 (Tuesday) Final Count	Route-3:Van Vihar National Park (Gate No.2 to Gate No.1)	7.00 am to 12.00 pm





मध्यप्रदेश राज्य
जैव विविधता बोर्ड
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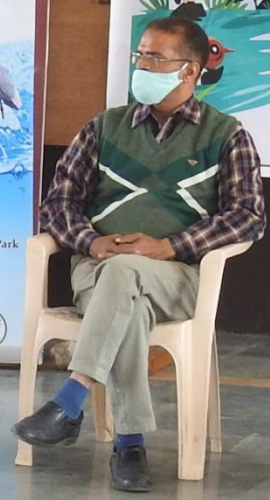
मध्यप्रदेश राज्य
जैव विविधता बोर्ड
भोपाल

Erica Erica

Bhoj Wetland Winter Bird Count
31st Jan. to 2nd Feb., 2021

BHOJ WETLAND WINTER BIRD C
2020-21
31st Jan. to 2nd Feb., 2021

Organized By
Bhopal Birds Conservation S
Supported By
MP Ecotourism Board
Van Vihar National Park
&
Nature Savors, Bhopal



6.COUNT ROUTES

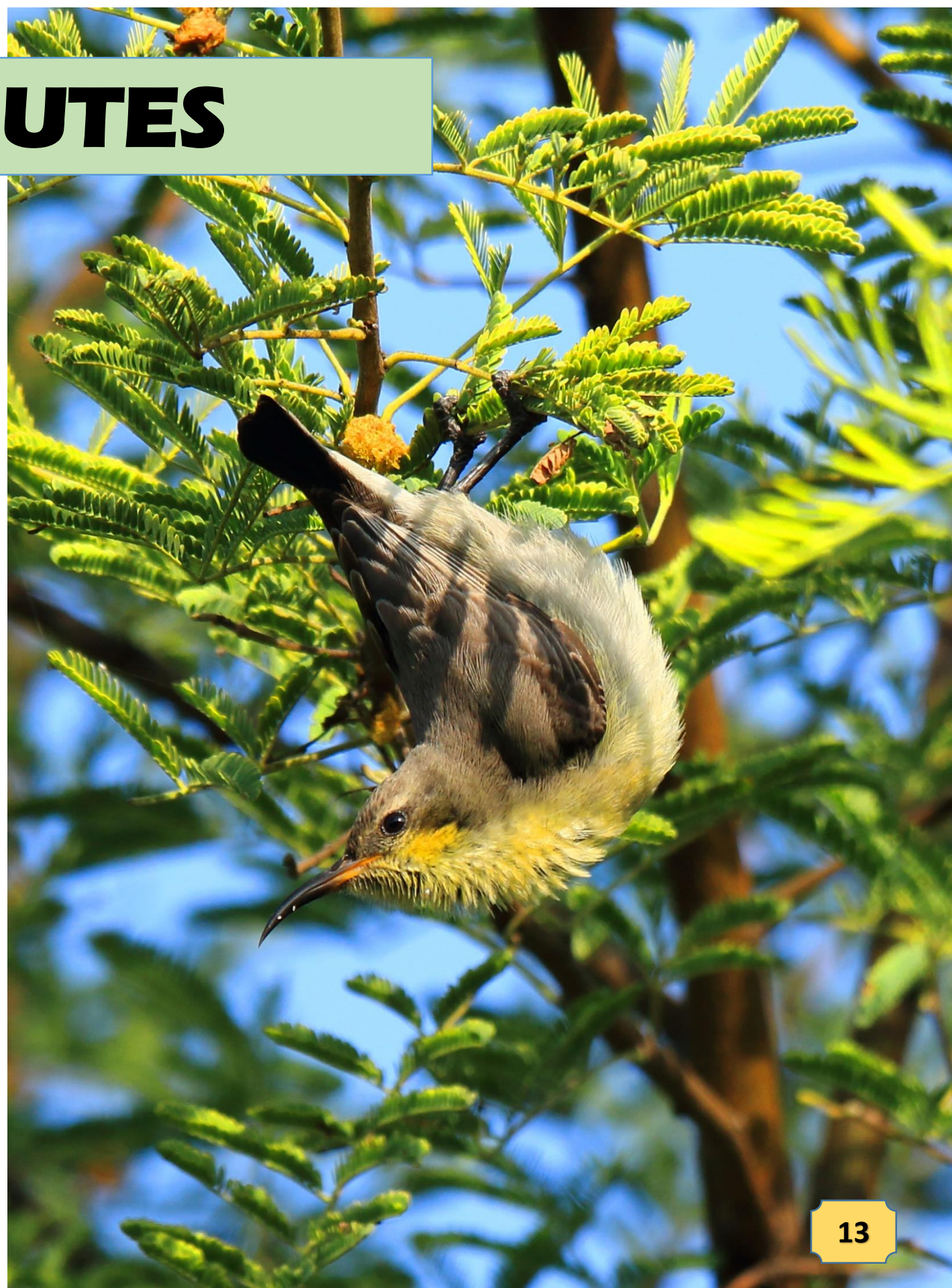
Route No.1 – Iconic School to CPA plantation

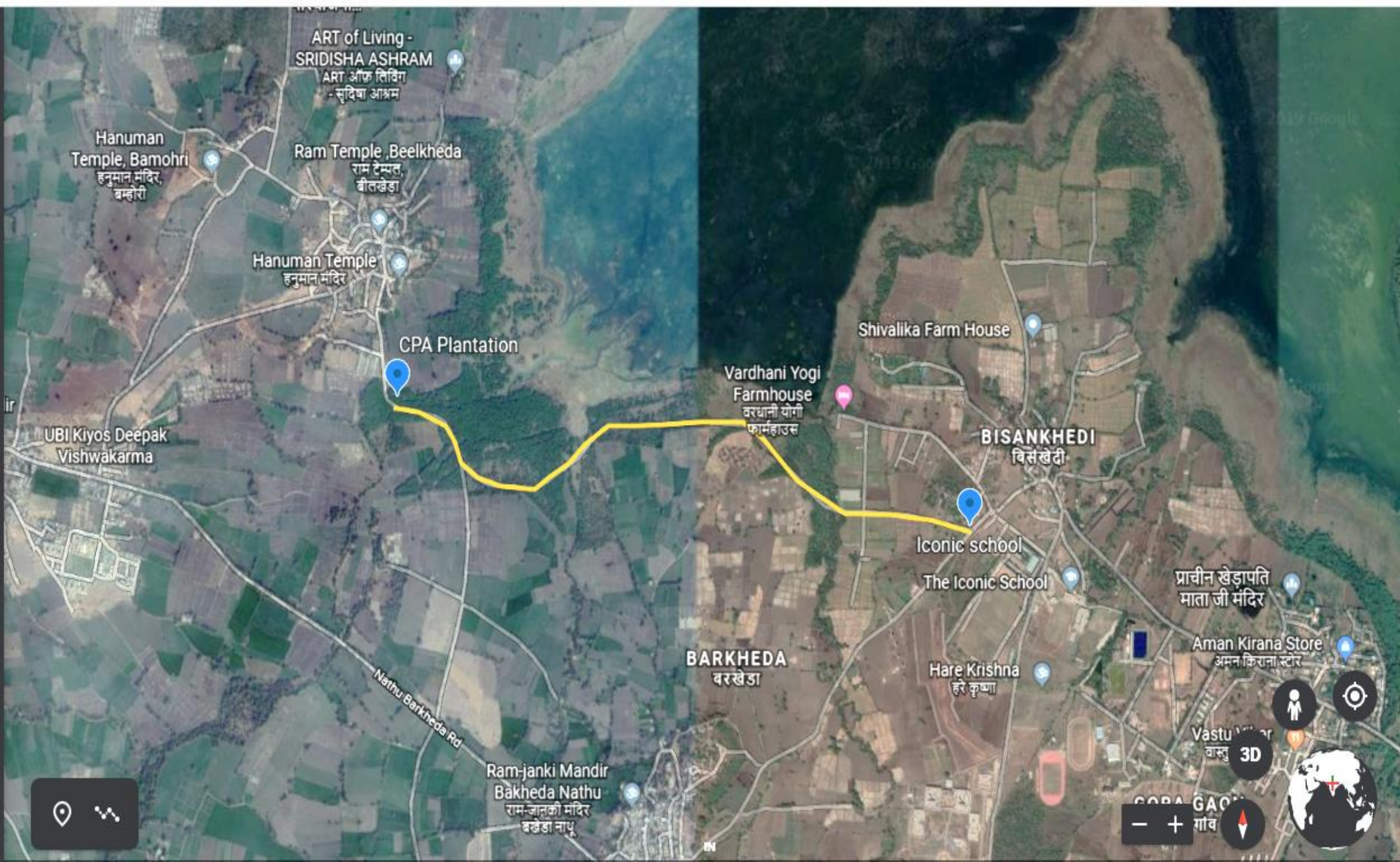
Route No.2 – Bhamori Village to Bhamori Plantation

Route No.3 – Van Vihar National Park National Park Gate No.2 to Gate No.1

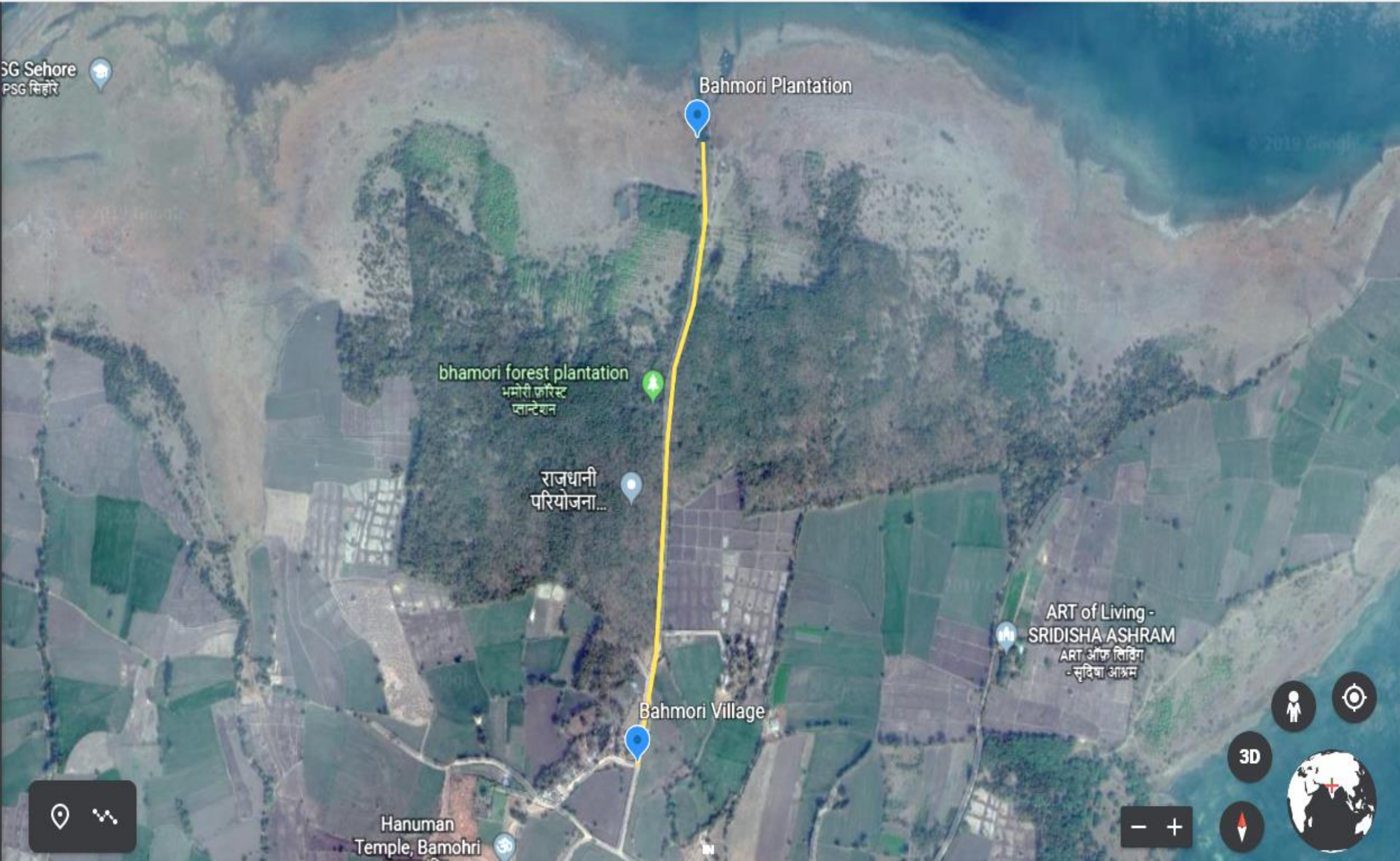
Route No.4 – Borvan Park, Sant Hirdaram Nagar

Route No.5 – Lower Lake to Borvan Park

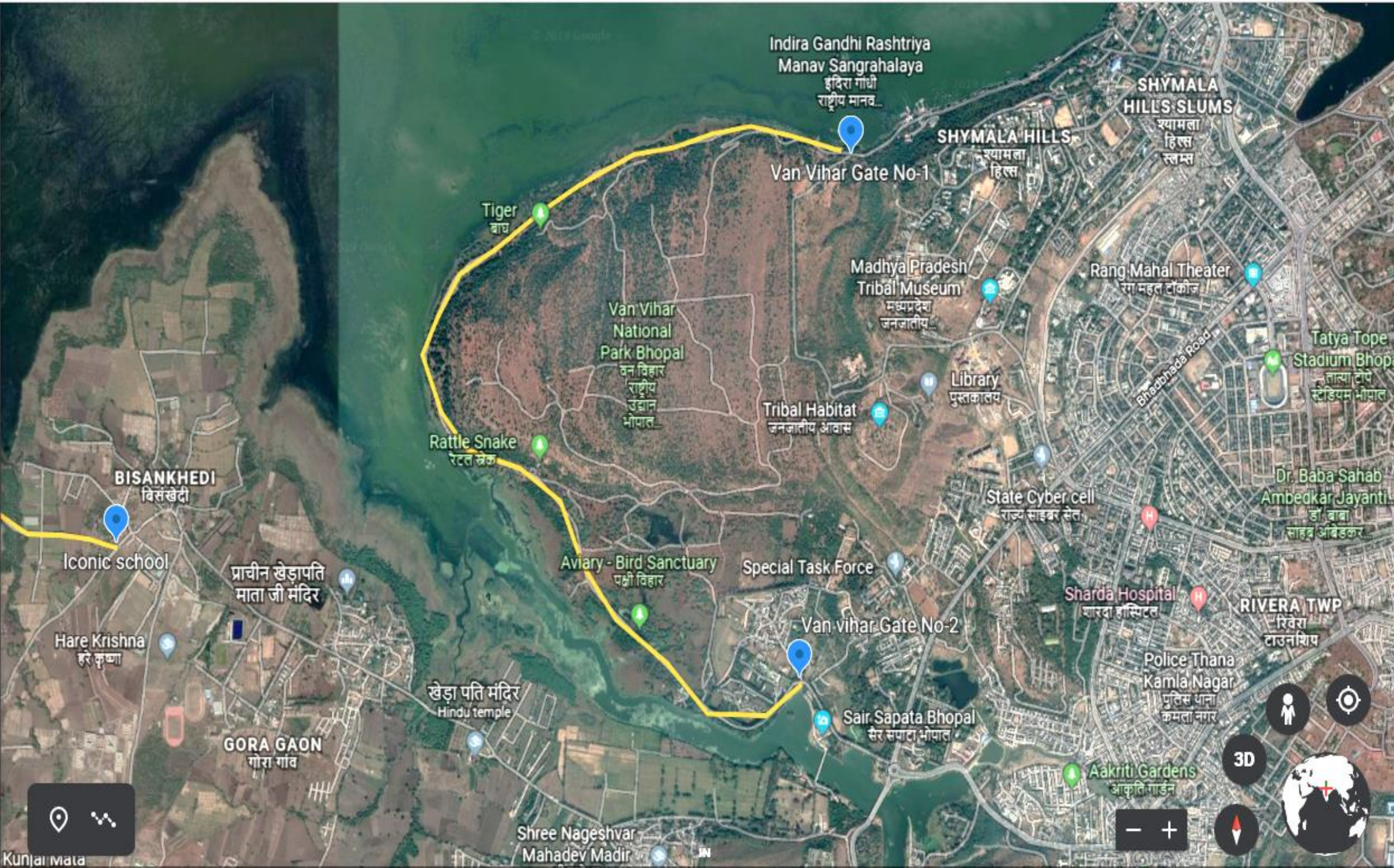




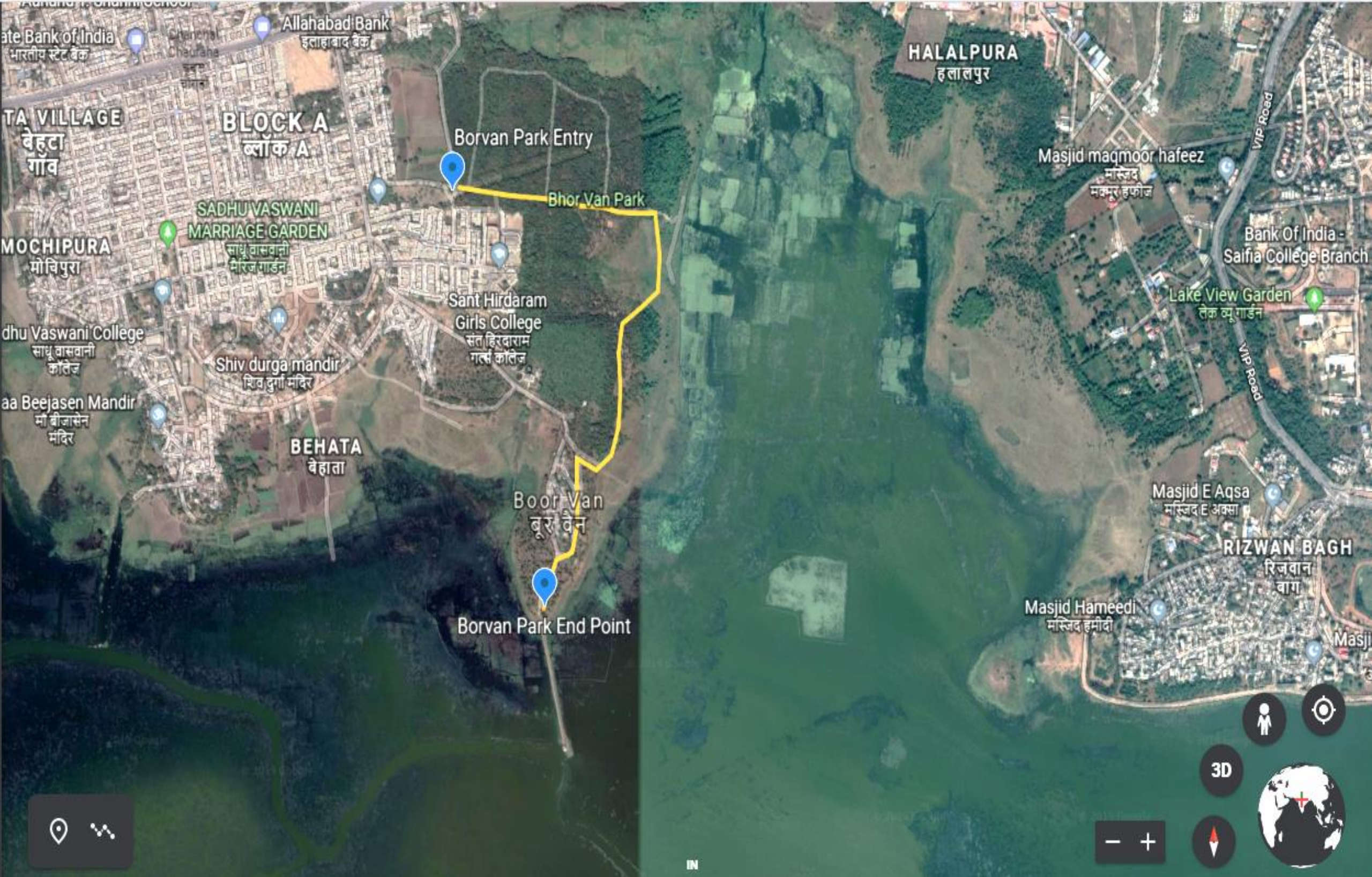
Route No.1 – Iconic School to CPA plantation



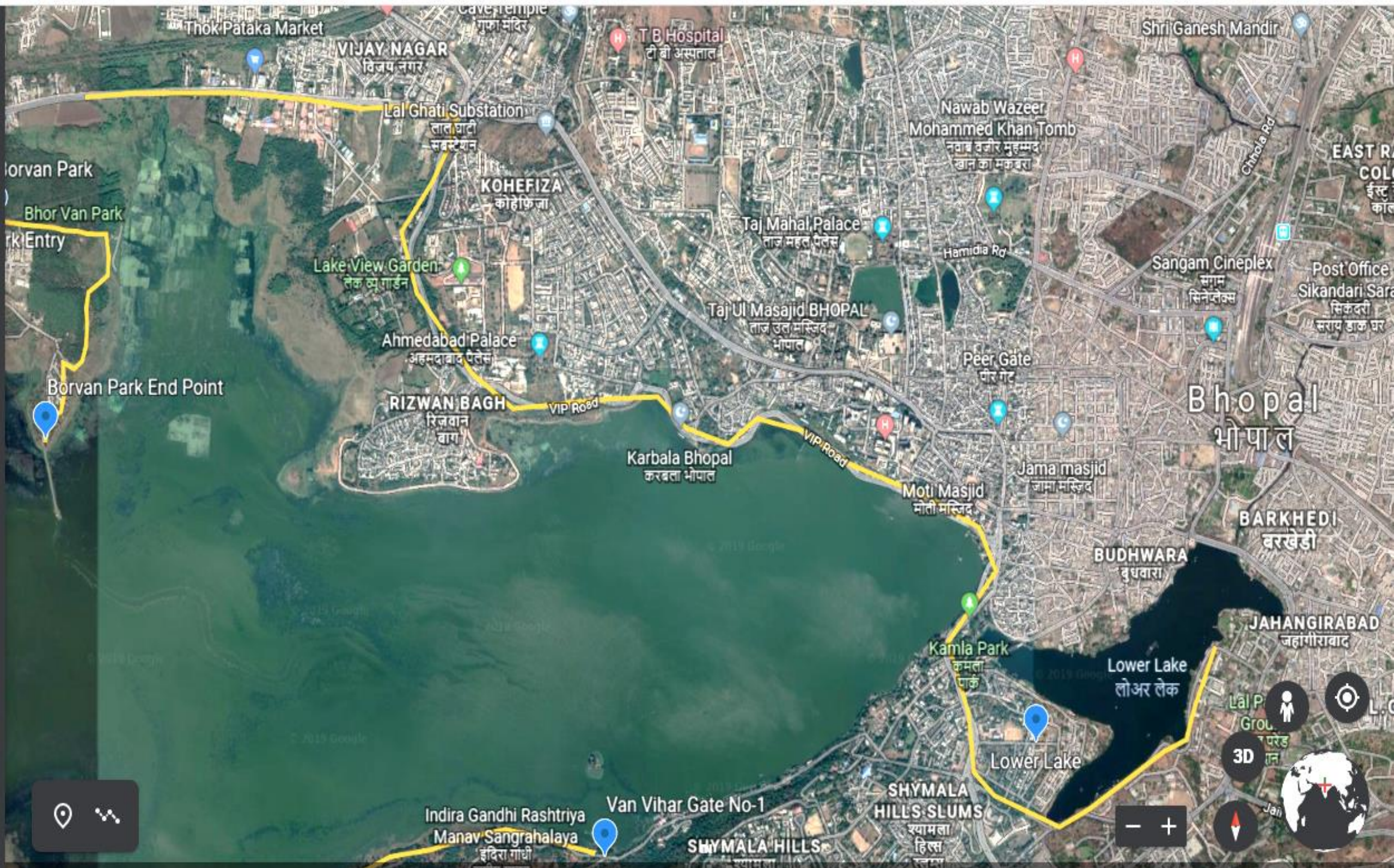
Route No.2 – Bhamori Village to Bhamori Plantation



Route No.3 – Van Vihar National Park National Park Gate No.2 to Gate No.1



Route No.4 – Borvan Park, Sant Hirdaram Nagar



Route No.5 – Lower Lake to Borvan Park



7.SUMMARY OF ESTIMATED COUNT



S.NO	FAMILY	COMMON NAME	SCIENTIFIC NAME	LOCAL NAME	MIGRATORY/ LOCAL MIGRATORY/ RESIDENT	CONSERV ATION STATUS	ICONIC SCHOOL TO CPA PLANTATION ROUTE-1	BAMHORI VILLAGE TO BAMHORI CPA FRH ROUTE-2	VAN VIHAR NATIONAL PARK ROUTE-3	BORVAN PARK ROUTE-4	LOWER LAKE TO BORVAN ROUTE-5	TOTAL POPULATION
	PODICIPEDIDAE											
1		Little Grebe	<i>Tachybaptus ruficollis</i>	Chota Dubdubi	LM	LC	2	10	7	-	-	19
	PHALACROCCORACIDAE											
2		Large Cormorant	<i>Phalacrocorax carbo</i>	Bada Pankowa	LM	LC	143	146	566	25	165	1045
3		Indian Cormorant	<i>Phalacrocorax fuscicollis</i>	Desi Pankowa	LM	LC	19	-	56	29	7	111
4		Little Cormorant	<i>Phalacrocorax niger</i>	Chota Pankowa	LM	LC	153	66	547	54	56	876
	ANHINGIDAE											
5		Oriental Darter	<i>Anhinga melanogaster</i>	Banwe	WM	NT	-	2	3	2	-	7
	ARDEIDAE											
6		Grey Heron	<i>Ardea cinerea</i>	Sileti Anjan	LM	LC	4	6	112	6	-	128
7		Cattle Egret	<i>Bubulcus ibis</i>	Gaye Bagula	R	LC	50	84	19	17	-	170
8		Large Egret	<i>Casimodius albus</i>	Bada Bagula	R	LC	134	76	25	20	41	296
9		Intermediate Egret	<i>Mesophoyx intermedia</i>	Majhola Bagula	R	LC	120	86	30	39	76	351
10		Little Egret	<i>Egretta garzetta</i>	Karchiya Bagula	R	LC	550	128	86	31	102	897
11		Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	Vak Bagula	R	LC	-	-	140	-	-	140
12		Purple Heron	<i>Ardea purpurea</i>	Nari Anjan	LM	LC	5	12	10	4	13	44
13		Pond Heron	<i>Ardeola grayii</i>	Andha Bagula	R	LC	70	32	49	26	167	344
14		Black Bittern	<i>Dupetor flavicollis</i>	Kali Bagli	LM	LC	-	-	1	-	-	1
	CICONIIDAE											
15		Painted Stork	<i>Mycteria leucocephala</i>	Janghil	LM	NT	-	-	16	-	6	22
16		Openbill Stork	<i>Anastomus oscitans</i>	Ghonghil	LM	LC	6	5	7	12	13	43
17		Woolly-necked Stork	<i>Ciconia episcopus</i>	Haji Laglag	LM	LC	8	-	5	-	2	15

	THRESKIORNITHIDE											
18		Black-headed Ibis	<i>Threskiornis melanocephalus</i>	Safed Bujja	LM	NT	6	-	15	-	-	21
19		Glossy Ibis	<i>Plegadis falcinellus</i>	Koaari Bujja	LM	LC	15	11	3	8	9	46
20		Red-naped Ibis	<i>Pseudibis papillosa</i>	Lal Sar Bujja	LM	LC	50	-	-	-	-	50
21		Eurasian spoonbill	<i>Platalea leucorodia</i>	Chamcha	WM	LC	-	-	-	3	-	3
	ANATIDAE											
22		Lesser whistling Teal	<i>Dendrocygna javanica</i>	Choti Silehi	LM	LC	-	-	900	-	-	900
23		Ruddy Shelduck	<i>Trdorna ferruginea</i>	Surkhhab	WM	LC	-	-	3	-	-	3
24		Northern Pintail	<i>Anas acuta</i>	Sinkhpar	WM	LC	450	800	13			1263
25		Common Teal	<i>Anas crecca</i>	Choti Murgabi	WM	LC	300	262	-	-	-	562
26		Spot-billed Duck	<i>Anas poecilorhyncha</i>	Gugral Batakh	LM	LC	77	82	253	-	7	419
27		Comb Duck	<i>Sarkidiornis melanotos</i>	Nakta	WM	LC	160	46	1	-	9	216
28		Northern Shoveler	<i>Anas clypeata</i>	Tidari Batakh	WM	LC	-	436	-	-	-	436
29		Common Pochard	<i>Aythya ferina</i>	Choti Lal Sar Batakh	WM	VUL	1850	2000	-	-	-	3850
30		Red crested Pochard	<i>Rhodonessa rufino</i>	Lal Sar Batakh	WM	LC	6150	6334	515	-	-	12999
31		Gadwall	<i>Anas strepera</i>	Bekhur Batakh	WM	LC	2000	6000	21	-	-	8021
32		Eurasian Wigeon	<i>Anas penelope</i>	Piyasan Batakh	WM	LC	500	1500	-	-	-	2000
33		Cotton Pygmy-goose	<i>Nettapus coromandelianus</i>	Giri-Batakh	LM	LC	160	60	8	-	-	228
	ACCIPITRIDAE											
34		Black-Shouldered Kite	<i>Elanus caeruleus</i>	Kapasi Cheel	R	LC	6	8	4	-	14	32
35		Black Kite	<i>Milvus migrans</i>	Samanya Cheel	R	LC	-	6	80	22	56	164
36		Shikra	<i>Accipiter badius</i>	Sikra	R	LC	10	-	4	2	-	16
37		Greater Spotted Eagle	<i>Clanga clanga</i>	Kaljangha	V	VUL	1	-	1	-	-	2

38		Steppe Eagle	<i>Aquila nipalensis</i>	Rgad Ukab	WM	LC	2	-	-	-	-	2
39		Short-toed Snake Eagle	<i>Circaetus gallicus</i>	Sanpmar Cheel	R	LC				1	-	1
40		Oriental Honey-buzzard	<i>Pernis ptilorhynchus</i>	Sahutela	R	LC	3	-	1	-	-	4
41		Marsh Harrier	<i>Circus aeruginosus</i>	Daldali Patai	WM	LC	3	10	10	8	-	31
42		Crested serpent Eagle	<i>Spilornis cheela</i>	Dogra Cheel	R	LC	-	-	1	-	-	1
43		Osprey	<i>Pandion haliaetus</i>	Machlimar	WM	LC	-	-	1	-	-	1
	FALCONIDAE											
44		Common Kestrel	<i>Falco tinnunculus</i>	Samanya Khermutiya	WM	LC	-	-	-	-	2	2
45		Eurasian Hobby	<i>Falco subbuteo</i>	Morarasni	WM	LC	-	-	1	-	-	1
	PHASIANIDAE											
46		Grey Francolin	<i>F.pondicerianus</i>	Safed Teetar	R	LC	12	36	31	-	-	79
47		Common Quail	<i>Coturnix coturnix</i>	Bada Bater	R	LC	-	-	1	-	-	1
48		Indian Peafowl	<i>Pavo cristatus</i>	Mor	R	LC	17	5	45	-	-	67
	GRUIDAE											
49		Sarus Crane	<i>Grus antigone</i>	Sarus	LM	VUL	24	15	-	8	2	49
	RALLIDAE											
50		White breasted Waterhen	<i>Amaurornis phoenicurus</i>	Safed Chati Jalmurgi	R	LC	-	35	51	-	27	113
51		Purple Swampen	<i>Porphyrio porphyrio</i>	Jamiuni Jalmurgi	R	LC	18	29	24	22	32	125
52		Common Moorhen	<i>Gallinula chloropus</i>	Samanya Jalmurgi	R	LC	26	-	79	12	48	165
53		Coot	<i>Fulica atra</i>	Tikdi	WM	LC	4200	1516	369	-	200	6285
	JACANIDAE											
54		Bronze-winged jacana	<i>Metopidius indicus</i>	Jalpipi	R	LC	15	-	30	16	21	82

55		Pheasant-tailed jacana	<i>Hidrophasianus chrurgus</i>	Piho	R	LC	23	-	1	18	13	55
	RECURVIROSTRIDAE											
56		Black-winged Stilt	<i>Himantopus himantopus</i>	Gajpaon	R	LC	78	20	32	15	205	350
57		Pied Avocet	<i>Recurvirostra avosetta</i>	Kasya Chaha	WM	LC	6	-	-	-	-	6
	SCOLOPACINAE											
58		Black-tailed Godwit	<i>Limosa limosa</i>	Bada Gudera	WM	NT	-	-	10	-	-	10
59		Green Sandpiper	<i>Tringa ochropus</i>	Hara Chobaha	WM	LC	-	-	2	-	-	2
60		Marsh Sandpiper	<i>Tringa stagnatilis</i>	Chota Timtima Chobaha	WM	LC	5	-	1	-	-	6
61		Common Sandpiper	<i>Actitis hypoleucos</i>	Samanya Chobaha	WM	LC	-	-	8	-	6	14
62		Common Redshank	<i>Tringa totanus</i>	Chota Surma Chobaha	WM	LC	-	-	-	2	-	2
63		Spotted Redshank	<i>Tringa erythropus</i>	Bada Surma Chobaha	WM	LC	3	-	-	-	-	3
	CHARADRIIDAE											
64		Red wattled Lapwing	<i>Vanellus indicus</i>	Sharari Titahri	R	LC	35	61	66	16	34	212
65		Yellow-wattled Lapwing	<i>Vanellus malabaricus</i>	Zard Titahri	R	LC	7	-	-	-	-	7
66		Little Ringed Plover	<i>Charadrius dubius</i>	Jira Batan	WM	LC	10	-	6	-	-	16
	LARIDAE											
67		River Tern	<i>Sterna aurantia</i>	Jal Kurari	R	NT	24	25	13	25	134	221
68		Brown headed Gull	<i>Chroicocephalus brunnicephalus</i>	Samanya Ghomra	WM	LC	120	77	161	11	300	669
69		Little Tern	<i>Sterna albifrons</i>	Choti Kurari	WM	LC	-	-	12	-	-	12
70		Whiskered Tern	<i>Childonias hybridus</i>	Muchal Kurari	WM	LC	-	-	36	-	-	36
	COLUMBIDAE											
71		Blue rock Pigeon	<i>Columba livia</i>	Samanya Kabutar	R	LC	125	99	32	33	96	385

72		Eurasian Collared Dove	<i>Streptopelia decaocto</i>	Dhawar Fakta	R	LC	-	20	5	6	-	31
73		Red Collared Dove	<i>S.tranquebarica</i>	Int Kohari Fakta	R	LC	-	-	2	-	-	2
74		Spotted Dove	<i>S.chinensis</i>	Chitrokha Fakta	R	LC	40	29	28	48	43	188
75		Laughing Dove	<i>S.senegalensis</i>	Tutru	R	LC	64	29	17	29	44	183
76		Oriental Turtle Dove	<i>Sterptopelia oreintalis</i>	Kalhak Fakta	R	LC	45	-	4	-	15	64
	PSITTACIDAE											
77		Rose-ringed Parakeet	<i>Psittacula krameri</i>	Kanthi Wala Tota	R	LC	400	142	116	118	94	870
78		Plum-headed Parakeet	<i>Psittacula cyanocephala</i>	Tuniya Tota	R	LC	-	29	-	16	26	71
	CUCULIDAE											
79		Jacobin Cuckoo	<i>Clamator jacobinus</i>	Ablak Chatak	SM	LC	-	-	1	-	-	1
80		Asian Koel	<i>Eudynamys scolopacea</i>	Koel	LM	LC	-	2	5	14	13	34
81		Greater Coucal	<i>Centropus sinensis</i>	Mahok	R	LC	20	-	19	18	5	62
82		Indian Cuckoo	<i>Cuculus micropterus</i>	Kafal Pakka	SM	LC	-	-	6	-	-	6
83		Grey-bellied Cuckoo	<i>Cacomantis passerinus</i>	Surmai Khuk	SM	LC	1	-	-	-	-	1
84		Common Hawk Cuckoo	<i>Heirococyx varius</i>	Samanya Papiha	R	LC	-	-	2	-	-	2
	TYTONIDAE											
85		Barn Owl	<i>Tyto alba</i>	Karel Ullu	R	LC	1	-	1	-	-	2
	STRIGIDAE											
86		Spotted Owlet	<i>Athene brama</i>	Samanya Khusat	R	LC	-	-	6	-	-	6
87		Mottled Wood Owl	<i>Strix ocellata</i>	Chitra Van Ullu	R	LC	-	1	-	-	-	1
88		Eurasian Eagle Owl	<i>Bubo Bubo</i>	Samanya Ghughu	R	LC	-	-	-	1	-	1
	CAPRIMULGIDAE											

89		Indian Nightjar	<i>Caprimulgus asiaticus</i>	Samanya Chapka	R	LC	7	2	-	-	-	9
90		Large-tailed Nightjar	<i>Caprimulgus macrurus</i>	Bad-Poonch Chapka	LM	LC	6	5	-	-	-	11
91		Savanna Nightjar	<i>Caprimulgus affinis</i>	Savana Chapka	R	LC	4	-	-	-	-	4
	APODIDAE											
92		Crested tree swift	<i>Hemiprocne coronata</i>	Chottidar Ababil	R	LC	-	-		30	-	30
93		Asian Palm Swift	<i>Cypsiurus balasiensis</i>	Tadi Ababil	R	LC	-	100	12	-	-	112
94		Little Swift	<i>Apus affinis</i>	Choti Ababil	R	LC	39	85	55	76	26	281
	ALCEDINIDAE											
95		Pied Kingfisher	<i>Ceryle rudis</i>	Korila Kilkila	R	LC	3	-	14	-	4	21
96		Common Kingfisher	<i>Alcedo atthis</i>	Chota Kilkila	R	LC	8	13	23	12	6	62
97		Stork-billed Kingfisher	<i>Halcyon capensis</i>	Bada Chonch Kilkila	R	LC	-	-	5	1	-	6
98		White-throated Kingfisher	<i>Halcyon smyrrnensis</i>	Safed Chati Kilkila	R	LC	25	27	40	16	8	116
	MEROPIDAE											
99		Green Bee-eater	<i>Merops orientalis</i>	Hara Patringa	R	LC	14	25	52	25	34	150
	CORACIIDAE											
100		Indian Roller	<i>Coracias benghalensis</i>	Neekanth	R	LC	6	12	17	17	2	54
	UPUPIDAE											
101		Common Hoopoe	<i>Upupa epops</i>	Hudhud	R	LC	-	7	7	10	-	24
	BUCEROTIDAE											
102		Indian Grey Hornbill	<i>Ocyrceros birostris</i>	Sileti Dhanesh	R	LC	2	4	3	4	5	18
	CAPITONIAE											
103		Coppersmith Barbet	<i>Megalaima haemacephala</i>	Tathera Basanth	R	LC	6	9	11	8	4	38
	PICIDAE											
104		Lesser Goldenback	<i>Dinopium benghalense</i>	Kalputh Angara Katfoda	R	LC	2	-	4	3	-	9

105		Eurasian Wryneck	<i>Jinx torquilla</i>	Gardan Entha	WM	LC			3	-	-	3
106		Yellow-crowned Woodpecker	<i>Dendrocopos mahrattensis</i>	Piltaj Katfodiya	R	LC	-	-	-	1	-	1
	ALAUDIAE											
107		Crested Lark	<i>Galerida cristata</i>	Chotidar Chandul Bharat	R	LC	-	-	1	-	-	1
108		Rufous-tailed Lark	<i>Ammomanes phoenicurus</i>	Lal Pucha Bharat	R	LC	56	-	12	-	3	71
109		Ashy-crowned Sparrow lark	<i>Eremopterix grisea</i>	Sileti Sar Dabcachari	R	LC	-	10	2	-	-	12
	HIRUNDINIDAE											
110		Barn Swallow	<i>Hirundo rustica</i>	Samanya Ababil	WM	LC	120	104	7		56	287
111		Wired-tailed Swallow	<i>Hirundo smithii</i>	Leshar Ababil	R	LC	25	10	5		108	148
112		Red-rumped Swallow	<i>Cercropis daurica</i>	Lalputhi Ababil	R	LC	-	-	60	-	30	90
113		Dusky Crag Martin	<i>Hirundo concolor</i>	Dhumil Shel Ababil	R	LC	120	80	-	-	76	276
	LANIIDAE											
114		Bay-backed Shrike	<i>Lanius vittatus</i>	Matiya Lahtora	R	LC	16	30	10	16	2	74
115		Long-tailed Shrike	<i>Lanius schach</i>	Lamb Poonch Lahtora	R	LC	9	20	5	-	-	34
116		Brown Shrike	<i>Lanius cristatus</i>	Bhura Lahtora	WM	LC	-	-	3	-	-	3
	ORIOIDAE											
117		Golden Oriole	<i>Oriolus oriolus</i>	Swarn Peelak	R	LC	5	-	4	2	-	11
	DICRURIDAE											
118		Black Drongo	<i>Dicrurus macrocerus</i>	Kala Bhujanga	R	LC	77	33	30	14	12	166
119		White-bellied Drongo	<i>Dicrurus caerulescens</i>	Safed pet bhujanga	R	LC	-	-	2	-	-	2
	STRUNIDAE											
120		Brahminy Starling	<i>Sturnus pagodarum</i>	Puhya	R	LC	-	53	16	-	-	69
121		Asian Pied Starling	<i>Sturnus contra</i>	Ablaki Myna	R	LC	24	26	22	16	14	102

122		Rosy Starling	<i>Sturnus roseus</i>	Gulabi Myna	WM	LC	25	-	-	-	-	25
123		Common Myna	<i>Acridotheres tristis</i>	Desi Myna	R	LC	13	31	5	25	15	89
	CORVIDAE											
124		Rufous Treepie	<i>Dendrocitta vagabunda</i>	Tarupik	R	LC	12	-	13	6	3	34
125		House Crow	<i>Corvus splendens</i>	Desi Kowa	R	LC	-	32	41	60	23	156
126		Jungle Crow	<i>Corvus macrorhynchos</i>	Jungli Kowa	R	LC	35	4	25	-	5	69
	MOTACILLIDAE											
127		Paddyfield Pipit	<i>Anthus rufulus</i>	Khet Charchari	R	LC	34	12	12	-	-	58
128		Tree Pipit	<i>Anthus trivialis</i>	Taru Charchari	WM	LC	9	-	23	-	-	32
129		White Wagtail	<i>Motacilla alba</i>	Safed Khanjan	WM	LC	15	12	15	-	6	48
130		Yellow Wagtail	<i>Motacilla flava</i>	Pilkiya Khanjan	WM	LC	11	-	7	-	14	32
131		Citrine Wagtail	<i>Motacilla citreola</i>	Pila Khanjan	WM	LC	5	-	-	-	-	5
132		White-browed Wagtail	<i>Motacilla maderaspatensis</i>	Safed Bhon Khanjan	R	LC	-	-	4	11	23	38
133		Grey Wagtail	<i>Motacilla flava</i>	Sileti Khanjan	WM	LC	8	-	3	-	4	15
	CAMPEPHAGIDAE											
134		Common Woodshrike	<i>Tephrodornis pondicerianus</i>	Samanya Tarti Tuinyan	R	LC	-	8	9	5	-	22
135		Small Minivet	<i>Pericrocotus cinnamomeus</i>	Chota Rajalal	R	LC	13	12	8	6	-	39
136		White-bellied Minivet	<i>Pericrocotus erythropygius</i>	Safed pet Rajalal	LM	LC	-	-	6	-	-	6
	RHIPIDURIDAE											
137		White-browed Fantail	<i>Rhipidura aureola</i>	Safed Nachni	R	LC	20	12	14	6	-	52
	IRENIDAE											
138		Common Iora	<i>Aegithina tiphia</i>	Shobhigi	R	LC	7	28	28	16	-	79
139		Jerdon's Leafbird	<i>Chloropsis Jerdoni</i>	Neela Pankh Herewa	R	LC	-	-	8	-	-	8

	PYCNONOTIDAE											
140		Red vented Bulbul	<i>Pycnonotus cafer</i>	Gul Dum Bulbul	R	LC	34	39	103	23	12	211
	TIMALIINAE											
141		Yellow eyed Babbler	<i>Chrysomma sinense</i>		R	LC	-	-	12	-	-	12
142		Twany-bellied Babbler	<i>Dumetia hyperythra</i>	Lalchon Pet Charkhi	R	LC	-	-	8	-	-	8
143		Common Babbler	<i>Turdoides caudates</i>	Dumari Gogai Charkhi	R	LC	-	87	8	27	-	122
144		Large grey Babbler	<i>Turdoides malcolmi</i>	Badi Goagi Charkhi	R	LC	5	20	2	-	-	27
145		Jungle Babbler	<i>Turdoides striatus</i>	Jungli Gogai Charkhi	R	LC	20	17	157	16	23	233
	NECTARINIIDAE											
146		Purple Sunbird	<i>Cinnyris asiatica</i>	Begani Sakarkhora	R	LC	24	45	93	33	32	227
147		Purple-rumped Sunbird	<i>Leptocoma zeylonica</i>	Bada Panchrangi Sakarkhora	LM	LC	6	-	-	-	-	6
	PARIDAE											
148		Great Tit	<i>Parus major</i>	Sileti Ramgangra	R	LC	2	-	9	-	-	11
	PLOCEIDAE											
149		House Sparrow	<i>Passer domesticus</i>	Gharelu Gorraiya	R	LC	44	135	9	36	23	247
150		Yellow throated Sparrow	<i>Petronia xanthocollis</i>	Lal Kandha Gorraiya	R	LC	-	-	3	17	-	20
151		Baya Weaver	<i>Ploceus philippinus</i>	Samanya Baya	R	LC	-	16	14	-	-	30
152		Black-breasted Weaver	<i>Ploceus benghalensis</i>	Kali Chati Baya	WM	LC	20	-	-	-	-	20
	DICAEIDAE											

153		Thick-billed Flowerpecker	<i>Dicaeum agile</i>	Bheem Chonch Fulchuki	R	LC	-	-	8	-	-	8
	ESTRILDIDAE											
154		Red Avadavat	<i>Amandava amandava</i>	Lal Munia	LM	LC	-	-	50	7	-	57
155		Tricolored Munia	<i>Lonchura malacca</i>	Kal Sar Munia	LM	LC	-	-	6	-	-	6
156		Scaly-breasted Munia	<i>Lonchura punctulata</i>	Chitti Munia	R	LC	-	-	7	-	-	7
157		Indian Silverbill	<i>Lonchura malabarica</i>	Sada Munia	R	LC	25	34	57	-	-	116
	CISTICOLIDAE											
158		Zitting Cisticola	<i>Cisticola juncidis</i>	Zit Zit Ziti Dum Fudki	R	LC	-	-	1	-	-	1
159		Common Tailorbird	<i>Orthotomus sutorius</i>	Darjin	R	LC	-	5	10	7	-	22
160		Grey-breasted Prinia	<i>Prinia hodgsonii</i>	Sileti Chati Dum Fudki	R	LC	4	-	4	-	-	8
161		Jungle Prinia	<i>Prinia sylvatica</i>	Jungli Dum Fudki	LM	LC	-	7	1	-	-	8
162		Ashy Prinia	<i>Prinia socialis</i>	Sileti Dum Fudki	R	LC	33	12	55	23	13	136
163		Plain Prinia	<i>Prinia inornata</i>	Sada Dum Fudki	R	LC	7	9	16	-	-	32
	MUSCICAPIDAE											
164		Greenish Warbler	<i>P.trochiloides</i>	Hari Padfudki	WM	LC	-	-	5	-	-	5
165		Booted Warbler	<i>Hippolais caligata</i>	Badpaon Fudki	WM	LC	10	8	46	8	-	72
166		Clamorous Reed Warbler	<i>Acrocephalus stentoreus</i>	Badi Narkul Fudki	WM	LC	-	-	1	-	-	1
167		Lesser Whitethroat	<i>Sylvia curruca</i>	Chota Tiktiki Fudki	WM	LC	24	12	14	7	-	57
168		Common Chiffchaff	<i>Phylloscopus collybita</i>	Samanya Chip Chip Fudki	WM	LC	5	2	1	-	-	8
169		Bluethroat	<i>Luscinia svecica</i>	Nil Kanthi Lusinia	WM	LC	-	2	8	2	-	12
170		Magpie Robin	<i>Copsychus saularis</i>	Dayal	R	LC	20	32	43	21	11	127
171		Black Redstart	<i>Phoenicurus ochruros</i>	Kala Thirthira	WM	LC	-	18	31	-	2	51

172		Brown Rock-chat	<i>Cercomela fusca</i>	Tharthar Kampni	R	LC	4	-	1	-	-	5
173		Pied Bushchat	<i>saxicola caprata</i>	Ablak Jhadi Pida	R	LC	12	7	15	-	-	34
174		Indian Robin	<i>saxicoloides fulicata</i>	Kalchuri	R	LC	23	38	49	24	12	146
175		Blue-capped Rock Thrush	<i>Monticola cinclorhynchus</i>	Neel Sar Kastura	WM	LC	-	-	1	-	-	1
176		Indian Blackbird	<i>Turdus Simillimus</i>	Kal Par Pawai Kastura	R	LC	-	-	1	-	-	1
177		Asian Brown Flycatcher	<i>Muscicapa dauurica</i>	Bhura Kitmar	LM	LC	-	17	8	8	2	35
178		Red-brasted Flycatcher	<i>Ficedula parva</i>	Sifiya Machariya	WM	LC	-	-	5	-	-	5
179		Taiga Flycatcher	<i>Ficedula albicilla</i>	Taiga Machariya	WM	LC	-	-	2	2	-	4
180		Verditer Flycatcher	<i>Eumyias thalassina</i>	Varditer Machariya	WM	LC	7	12	3	-	2	24
181		Tickell's Blue Flycatcher	<i>Cyronis tickelliae</i>	Tickli Machariya	R	LC	8	5	4	3	2	22
182		Grey-headed Canary Flycatcher	<i>Culicicapa ceylonensis</i>	Pilpeti Machariya	WM	LC	4	-	12	4	-	20
183		Common Stonechat	<i>Saxicola torquata</i>	Samanya Bhat Pidda	WM	LC	6	4	6		3	19
	EMBERIZINAE											
184		Crested Bunting	<i>Melophus lathami</i>	Choti Patthar Chirta	R	LC	-	-	5	-	-	5
185		Black-headed Bunting	<i>Emberiza melanocephala</i>	Kalsar Chirta	WM	LC	212	-	-	-	-	212
186		Red-headed Bunting	<i>Emberiza bruniceps</i>	Lalmukhi Chirta	WM	LC	45	-	-	-	-	45
	ZOSTEROPIDAE											
187		Oriental White-eye	<i>Zosterops palpebrosus</i>	Purvi Babuna	R	LC	26	-	31	13	10	80
	Grand Total						19,737	21,767	6,307	1,404	2,733	51,948

Distribution:

Resident-R
Local Migratory-LM
Winter Migratory-WM
Summer Migratory-SM
Passage Migrant-PM
Vagrant-V

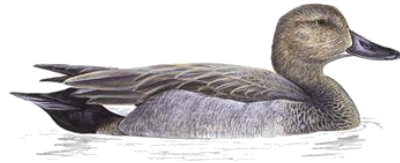
IUCN Conservation Status:

Critically Endangered –C
Endangered- EN
Vulnerable-VUL
Near Threatened –NT
Least Concern -LC

Estimated Count of Top Ten Species



Red Crested Pochard
Estimated Population - 12999



Gadwall
Estimated Population - 8021



Eurasian Coot
Estimated Population - 6285



Common Pochard
Estimated Population - 3850



Eurasian Wigeon
Estimated Population - 2000



Northern Pintail
Estimated Population - 1263



Large Cormorant
Estimated Population - 1045



Lesser Whistling Teal
Estimated Population - 900

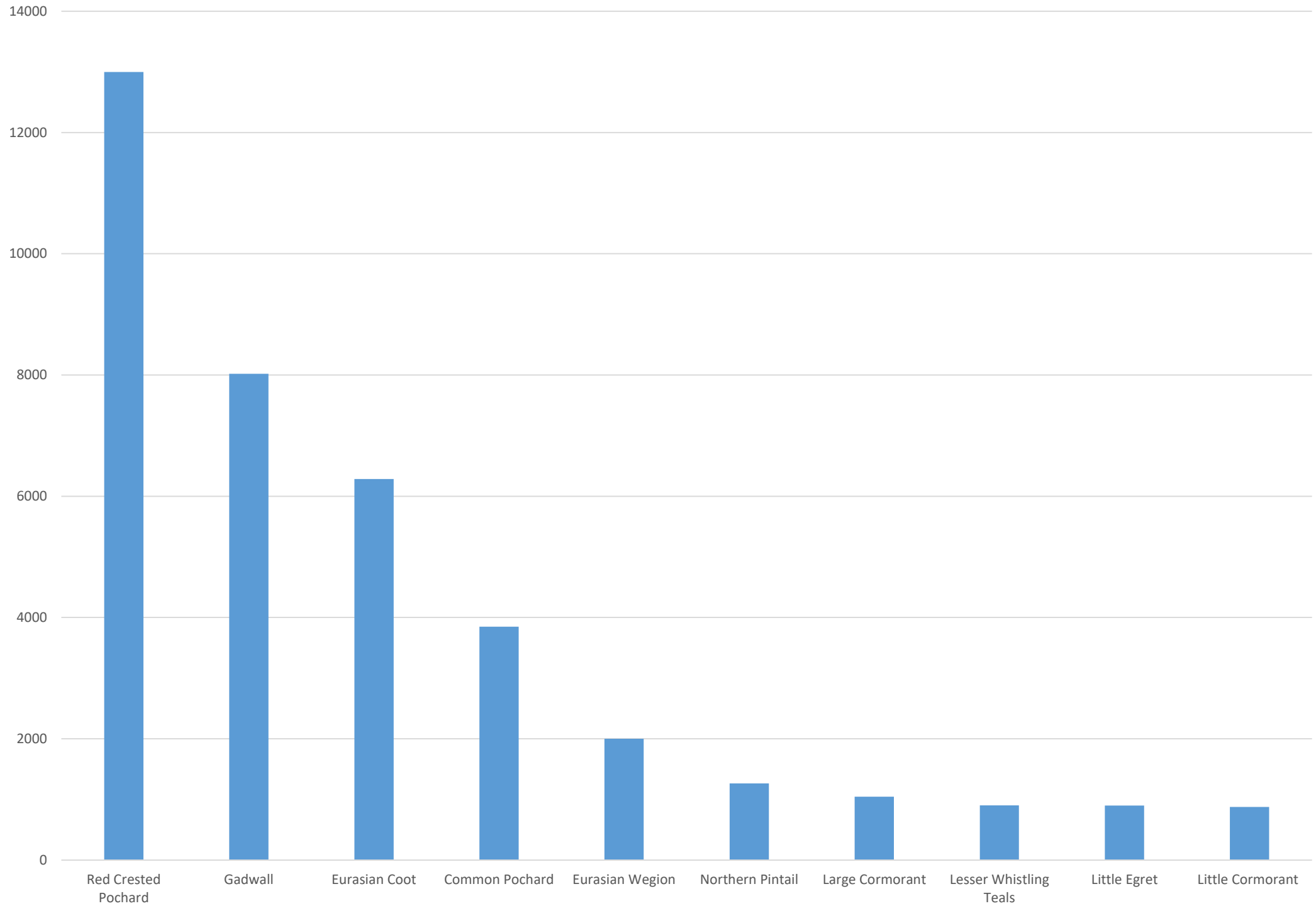


Little Egret
Estimated Population - 897

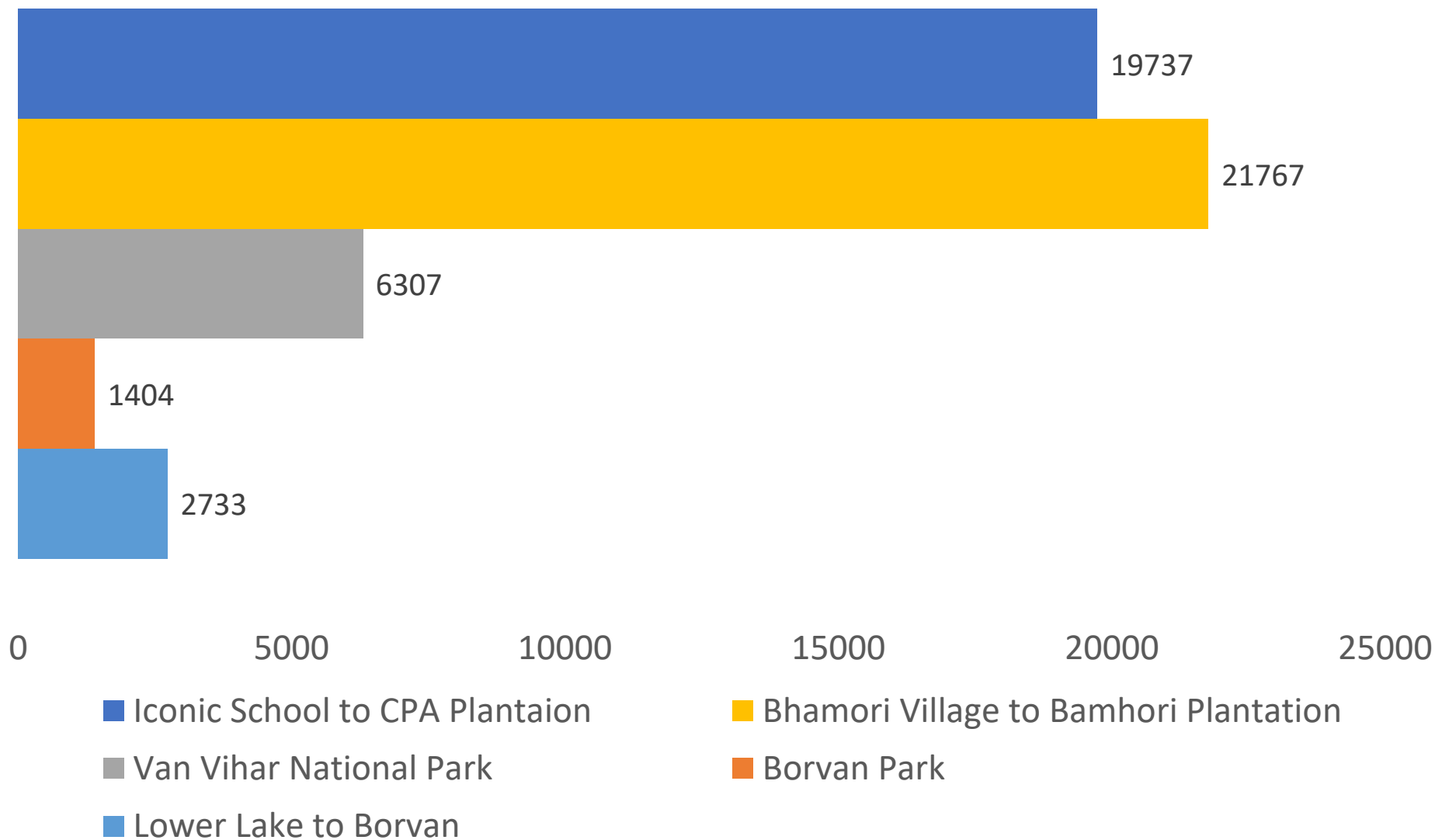


Little Cormorant
Estimated Population - 876

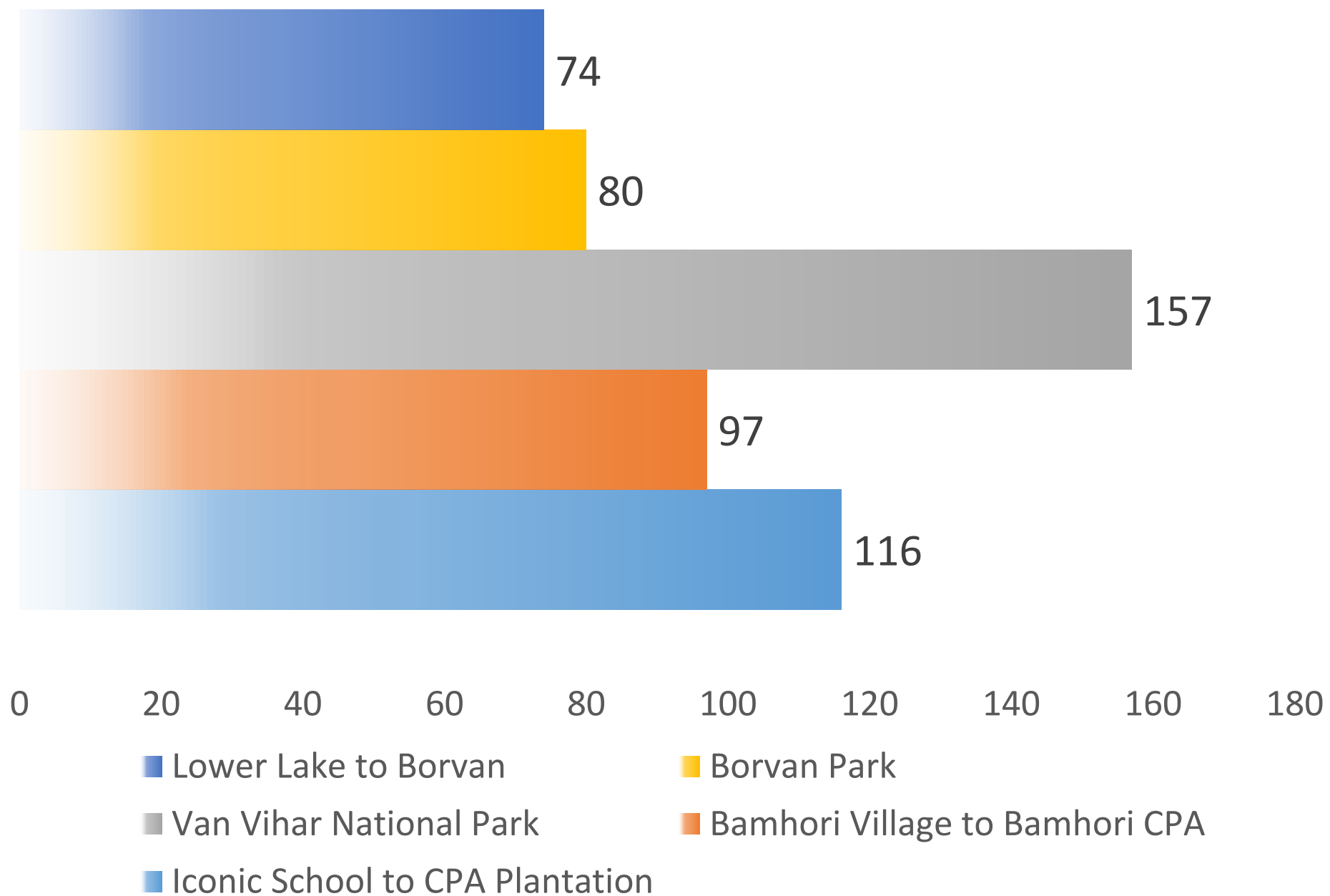
Estimated Count of Top Ten Species



Route wise Estimated Population of birds species

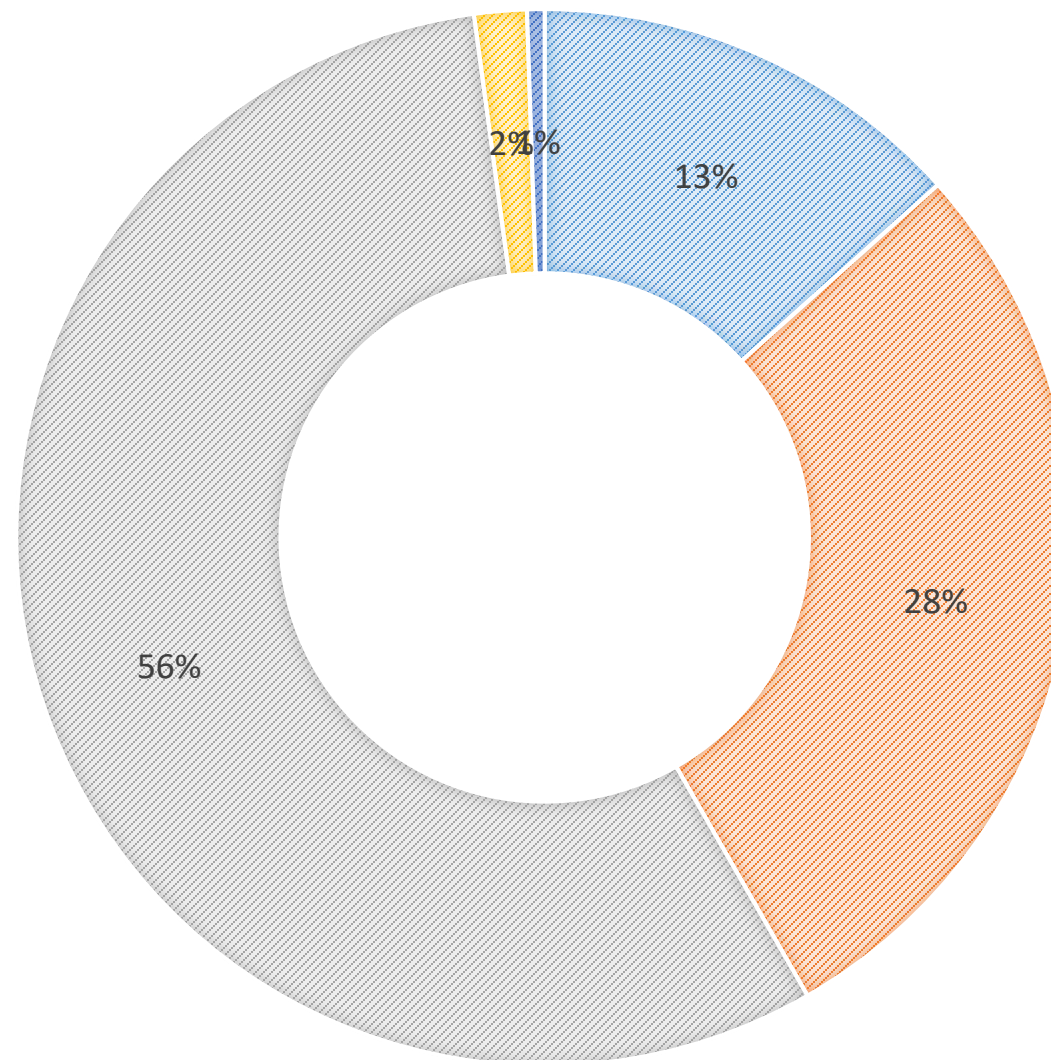


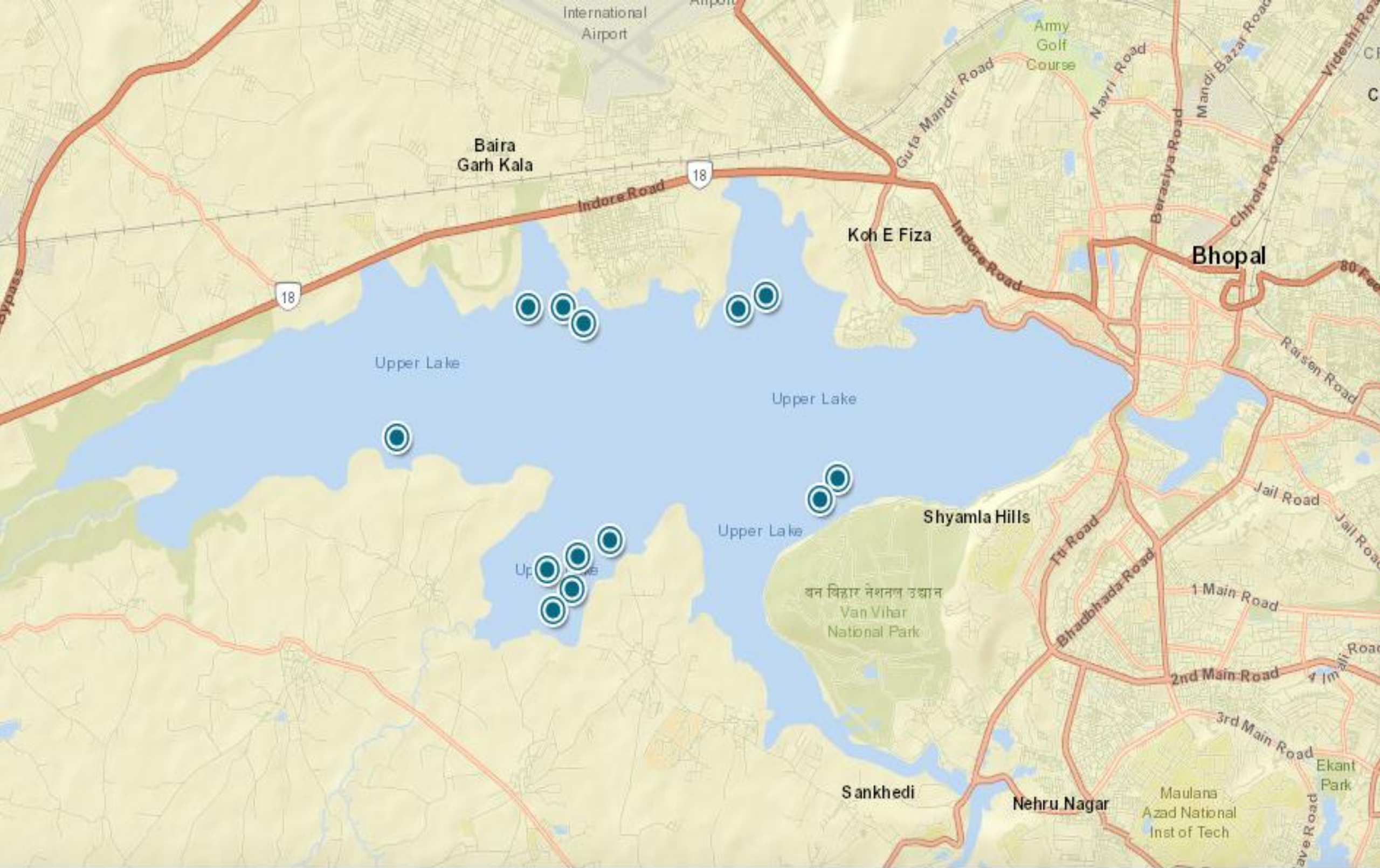
Route wise Birds Species Diversity



Resident /Migratory Status wise Percentage of Birds Species

■ Local Migratory ■ Winter Migratory ■ Resident ■ Summer Migratory ■ Vagrant





Area with Major Waterfowl Congregation

Threatened Species Recorded



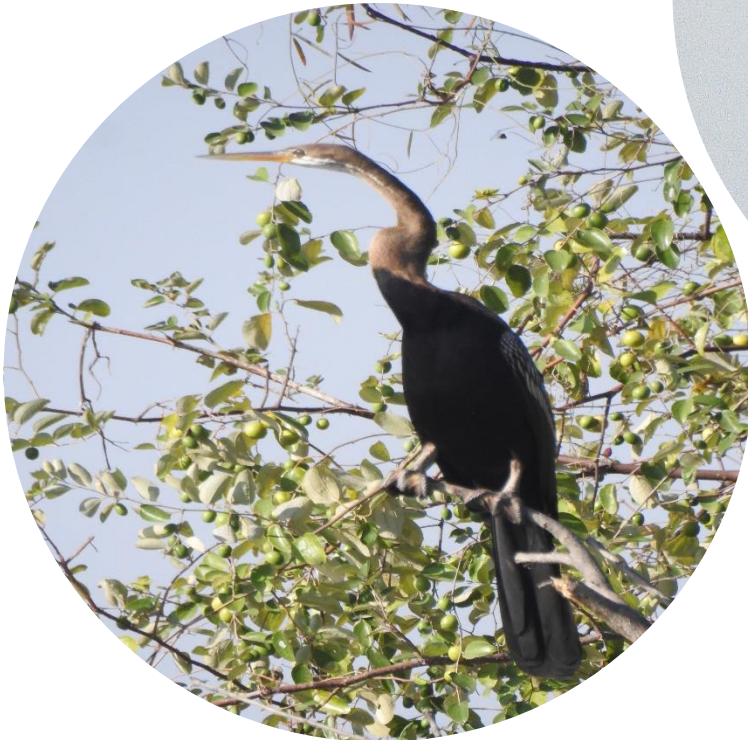
Near Threatened

1. Oriental Darter
2. Painted Stork
3. Black-headed Ibis
4. Black-tailed Godwit
5. River Tern



Vulnerable

1. Common Pochard
2. Greater Spotted Eagle
3. Sarus Crane



* As per IUCN Category

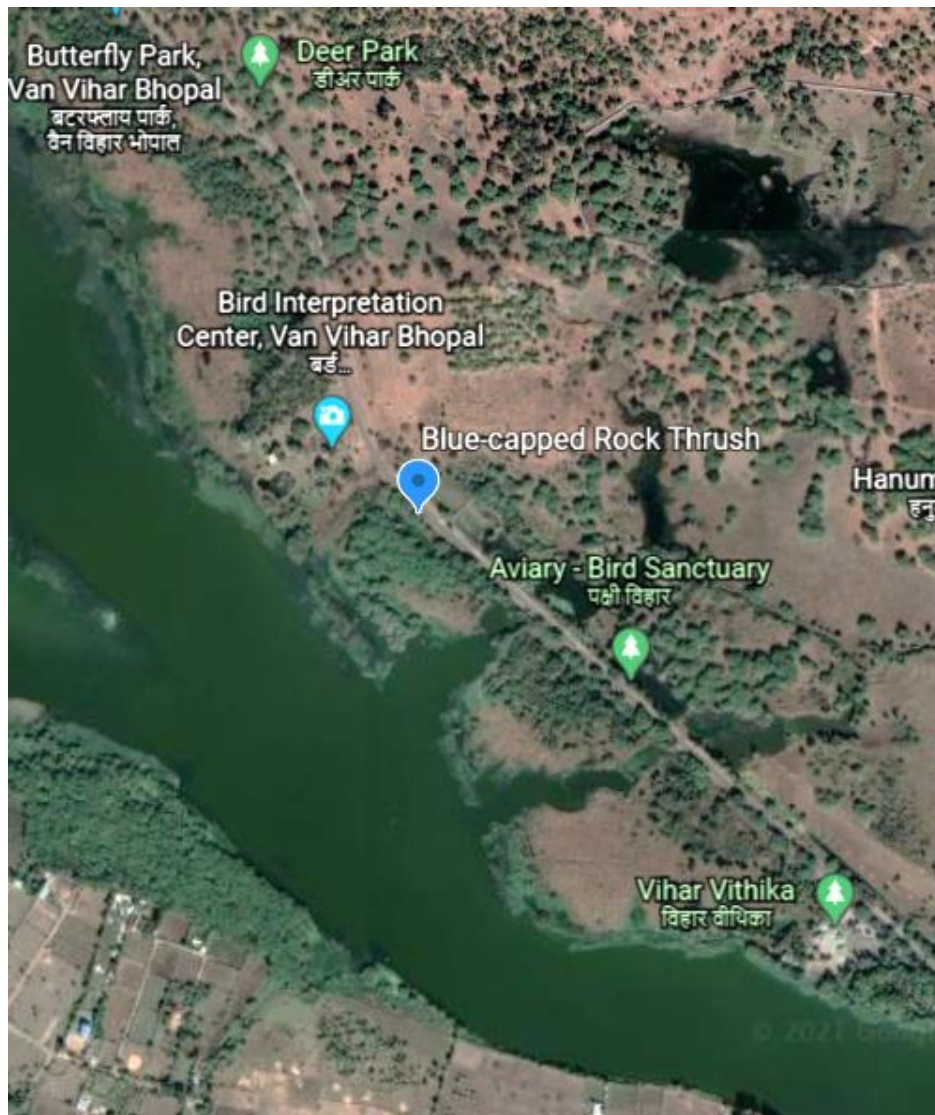


8.RARE SIGHTINGS

Blue-capped Rock-Thrush

Monticola cinclorhyncha

Sighted at Van Vihar National Park



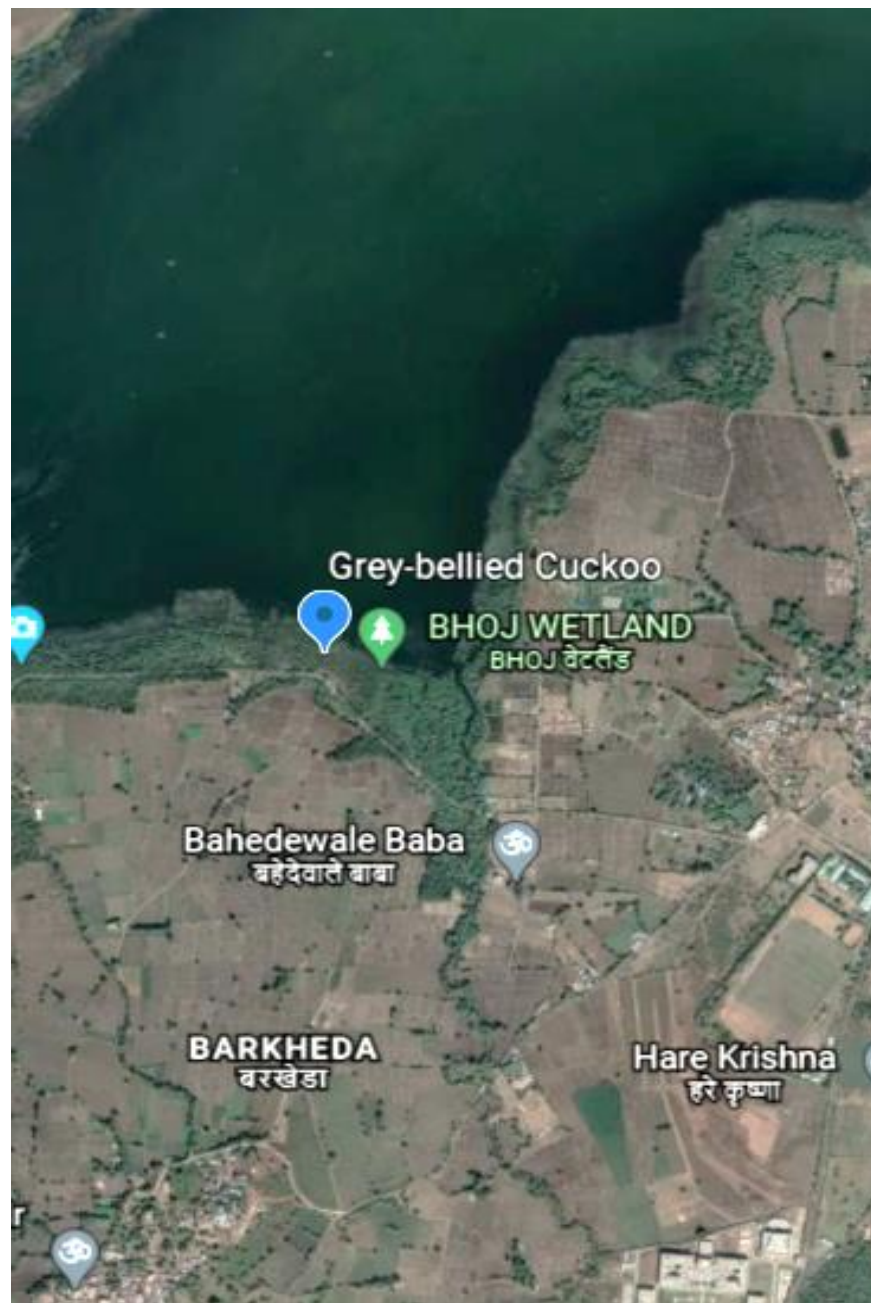
Google Map Location of Sighting



Grey-bellied Cuckoo

Cacomantis passerinus

Sighted at Beelkheda Road , Nathu Berkheda

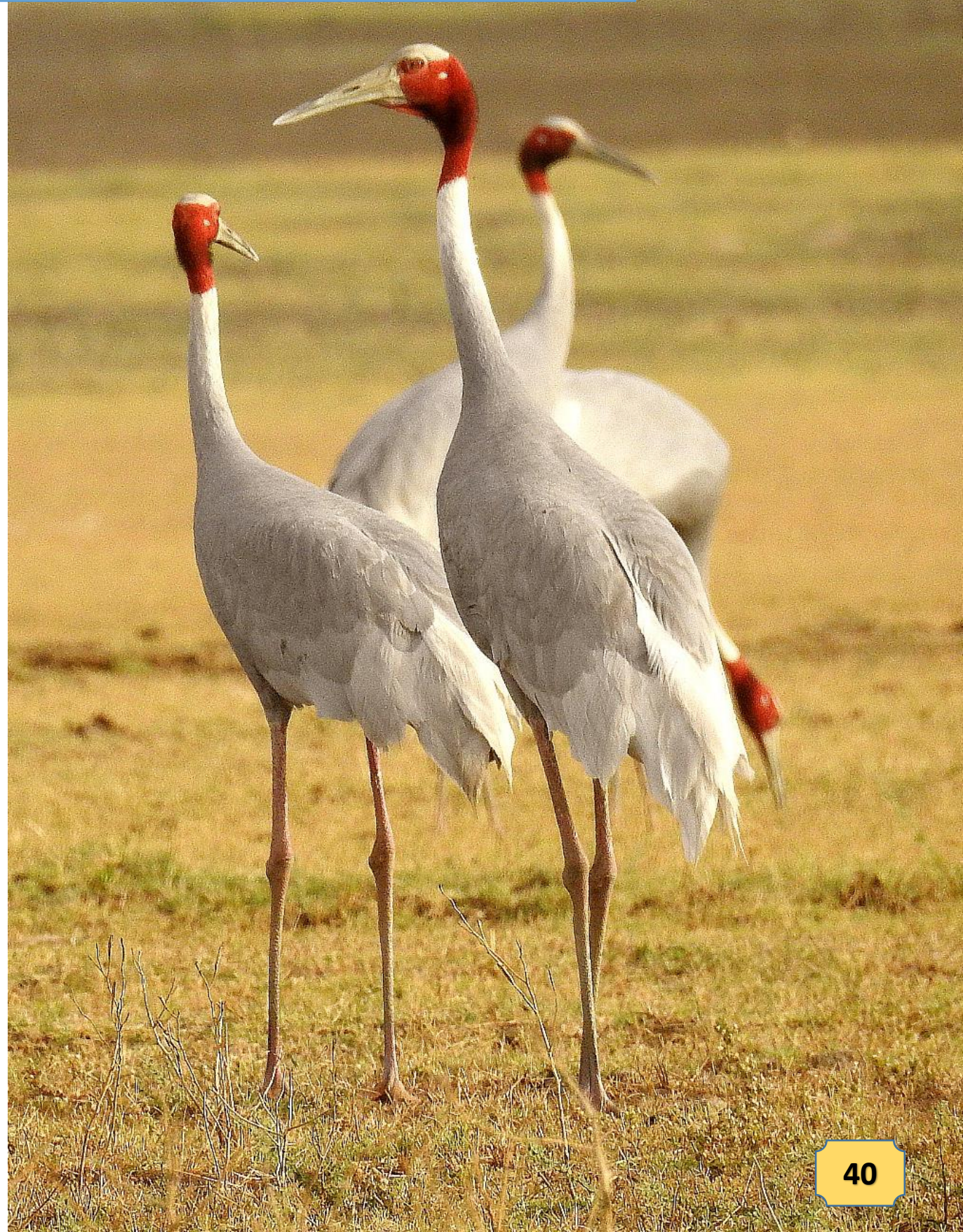


Google Map Location of Sighting



9. LOCAL COMMUNITY PARTICIPATION

Sarus Crane is a largest flying bird of the world. It is vulnerable in IUCN category. Their number was counted 161 in year 2001 in Bhoj Wetland. Due to various threats their population was declined year to year and remain only 2 to 4 individuals. A continuous awareness program and monitoring of Sarus crane has been initiated by Bhopal Birds with the help of local community. The youth of local community from peripheral villages designated as “Sarus Mitra” who look after and monitor breeding, nesting and other behaviors of Sarus Crane. Due to sustained effort of Sarus Mitra and Bhopal Birds, population of Sarus Crane increased year to year. As per count of year 2019 approximately 330 individual of Sarus Crane were counted in Bhoj Wetland. In Bhoj Wetland Winter Bird Count 2020-21 approximately 49 Individuals of Sarus Crane were observed in eight days. Sarus Mitra still indulge in the conservation of Sarus Crane in Bhoj Wetland and also actively participated in “Bhoj Wetland Winter Bird Count 2020-21” .



10.REFERENCE

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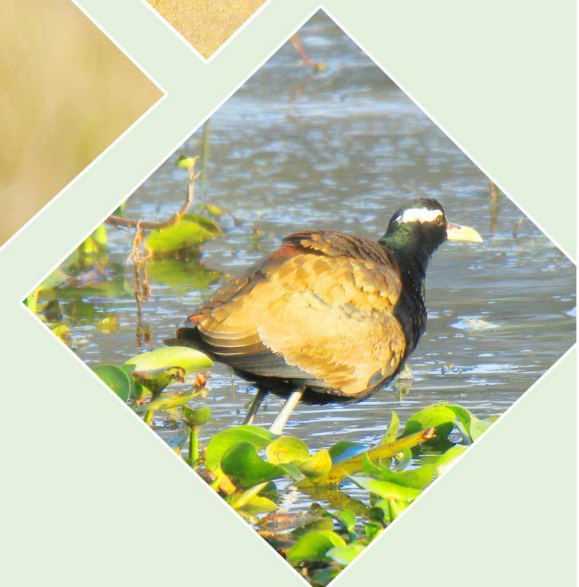




KRISHAN
MERCE WING

BHOJ WETLAND WINTER BIRD COUNT
2020-21
31 Jan. to 2 Feb., 2021

Organized by
National Service Scheme



MP Ecotourism Development Board,

Urja Bhawan, Shivaji Nagar, Bhopal - 462016

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