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Checklist

An updated bird checklist for Banke National Park and Buffer Zone, Nepal

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Abstract

A seven-day bird survey Banke National Park and Buffer Zone (BaNPBZ) was carried out in March 2024, followed by a desk study extracting records from eBird and Annual Waterbird counts. These records were used to compile an updated checklist for BaNPBZ. A total of 276 bird species has been recorded up to 6 April 2024 including 23 additional species found in the March 2024 survey and another 16 species located in the desk study. In 2016 BaNPBZ was assessed as an Important Bird and Biodiversity Area (IBA) based largely on the results of two surveys in 2012 and 2016, using globally threatened species and characteristic biome species criteria. Eight globally threatened species have been recorded so far including one species, great slaty woodpecker Mulleripicus pulverulentus which has significant populations in BaNPBZ, so still fulfilling the globally threatened criterion for an IBA. BaNPBZ has extensive forests in the Indo-Malayan tropical dry zone biome. It supports 69 per cent of species characteristic of this biome which have been recorded in Nepal, a larger number than found previously, so strengthening the justification of BaNPBZ as an IBA using the characteristic biome species criterion. Water shortage was identified by park staff as a major threat to wildlife. Access to the national park was limited in the March 2024 survey by the lack of a 4-wheel drive vehicle. However, the buffer zone was much easier to cover and was found to include high-quality tropical broadleaved forest and riverine habitats. Only lower altitudes up to 200 m were covered. Further bird surveys in all seasons, covering all habitats and the full altitudinal range of the park from 153-1247 m should produce many more bird species and are highly recommended.

Keywords: Bird survey; Globally threatened species; Characteristic biome species

1 | Introduction

Banke National Park and Buffer Zone (BaNPBZ) were declared on 12th July 2010 (DNPWC 2010). In a 2023 assessment, BaNPBZ was identified as one of Nepal's Important Bird and Biodiversity Areas (IBAs), a key site for conservation (BCN et al. 2023).

IBAs are places of international significance for the conservation of birds at the global level and, in addition, hold a large and representative proportion of other biodiversity (BirdLife International 2014). They are identified using standardised, internationally agreed criteria. The IBA programme is a worldwide initiative led by BirdLife International aimed at identifying, documenting and working towards the conservation and sustainable development of a network of critical sites for the world's birds and other biodiversity, termed IBAs (BirdLife International 2014). Bird Conservation Nepal is leading this initiative in Nepal, aided by BirdLife International (BirdLife International 2014).

A checklist of 236 bird species was compiled for BaNPBZ (BCN et al. 2016), based very largely on bird surveys carried out in February 2012 (Baral et al. 2012) and in April and May 2016 (Chaudhary 2016). However, BaNPBZ was still underrecorded for birds (BCN et al. 2023).

The assessment of BaNPBZ as an IBA was chiefly made using the 2016 bird checklist (BCN et al. 2016). BaNPBZ was found to qualify based on the globally threatened bird species criterion. Significant populations of four globally threatened bird species: white-rumped vulture Gyps bengalensis, Egyptian vulture Neophron percnopterus, great slaty woodpecker Mulleripicus pulverulentus and steppe eagle Aquila nipalensis had been recorded up to May 2016 (BCN et al. 2023). BaNPBZ also qualified as an IBA based on the characteristic biome-species criterion. It has extensive areas of the Indo-Malayan tropical dry zone biome that support a significant number of species characteristic of this biome (BCN et al. 2023).

This research article aims to update the BaNPBZ bird checklist and the assessment of BaNPBZ as an IBA. Bird records were collated from the results of a bird survey carried out in BaNPBZ from 5-10 and 18-19 March 2024. Additional bird records were obtained in a desk study by extracting records from eBird and Annual Waterbird Counts. The updated checklist provides stronger evidence for the designation of BaNPBZ as an IBA.

2 | Materials and methods

2.1 | Study area

The core area of the national park lies in Banke district (550 km²) and the buffer zone (343 km²) lies in Banke district in the south and west, and Dang and Salyan districts in the north. BaNPBZ is contiguous with Bardia National Park on its western border and its northern section is connected with Bardia National Park's Buffer Zone. In the south and southeast Banke National Park is contiguous via national forests and community-managed forests with Suhelwa Wildlife Sanctuary in India and so is part of a transboundary landscape (DNPWC 2024) (Figures 1-5).

BaNPBZ lies between geographical coordinates 27°58′-28°21′N, 81°39′-82°12′E and an altitudinal range of 153-1247 m in the tropical and subtropical zones (DNPWC 2024).

BaNP contains eight ecosystem types: sal *Shorea robusta* forest, deciduous riverine forest, savanna and grasslands, mixed hardwood forest, flood plain community, bhabar and foothills of the Churia range. Ninety per cent of the forests are composed of sal, karam *Adina cordifolia*, khair *Acacia catechu* and sissoo *Dalbergia sissoo* (DNPWC 2024).

Around 4,861 households with a population of 35,712 reside in the buffer zone where 90 per cent are engaged in agriculture and the rest in trade and labour (DNPWC 2024).

2.2 | Methods

A bird survey was carried out on seven days from 5-10 and 18 March. In addition, casual observations were made from a vehicle while driving to and from our survey routes and while travelling on 11 and 19 March. Several interesting records were made in the garden of our Gabhar Valley homestay during the duration of our time in Banke.

Birds were surveyed in the national park from Karauti machan to the Gaukholi River crossing, near Sutaiya post and also Muguwa. In the buffer zone surveys were carried out in the western and eastern areas of Gabhar Valley, the Gaukholi River Valley, Gabhar River Valley, along the Rapti River, and Khadgabar Hattisar. The surveys covered 1.5–8 km and were on existing tracks (Table 1) and the lower altitudes of the park (155–200 m).

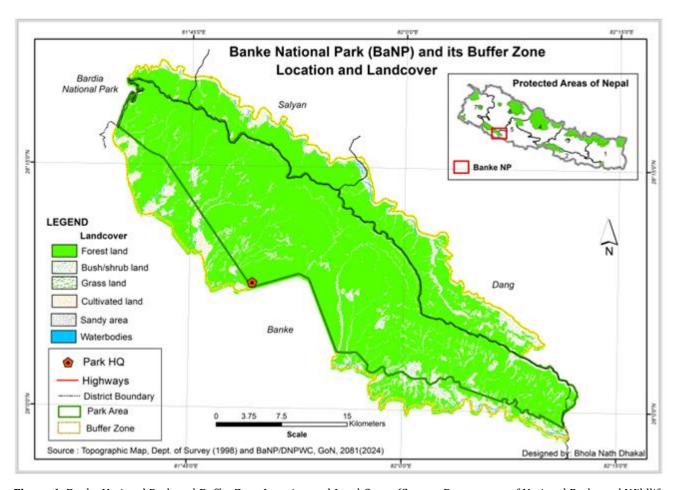


Figure 1. Banke National Park and Buffer Zone Location and Land Cover (Source: Department of National Parks and Wildlife Conservation)



Figure 2. Muguwa Khola, Banke National Park, Nepal.



Figure 3. Muguwa Khola, Banke National Park, Nepal.



Figure 4. Gaukholi River, Banke National Park, Nepal.



Figure 5. Rapti River, Buffer Zone, Banke National Park, Nepal.

All habitat types in BaNPBZ were covered except for the Churia foothills to the north which were too difficult for us to access. Tracks in the core area often required a 4-wheel drive vehicle which was not available to us. Bird species heard and seen and the numbers of individuals of each species were recorded on each survey route. Binoculars used were pairs of 8x30 Zeiss, 10×42 Nikon, and Swarovski 8.5×42; also, a Celestron telescope. Nocturnal birds, which were heard from the Gabhar Valley homestay garden, were recorded. A total list of 179 bird species recorded during our surveys was then compiled (Giri et al. 2024).

The initial checklist of 236 species for Banke National Park and Buffer Zone (BCN et al. 2016) was updated. New species were added from the March 2024 survey (Giri et al. 2024). A desk study was then carried out in order to complete the updated bird checklist for BaNPBZ up to 6 April 2024. Records were extracted from eBird (Sanjib Acharya, 14 February; Prakriti Chataut, 13 March 2024; Anand Chaudary 4, 5 July 2023; Satish Paudel, 9 February 2024; Cree Panta, 6 December 2018; Lalman Regmi, 30 December 2023; Vikram Tiwari 6, 8, 20 May and 25, 26 June 2019); and from the Annual Waterbird Counts carried out in January each year (Shahi et al. 2024).

The bird taxonomy used here follows DNPWC and BCN (2022). Global conservation status follows the IUCN Red List of Threatened Species (2024), and national conservation status follows the Nepal Red List (Inskipp et al. 2016).

3 | Results

A total of 179 bird species was recorded in our field survey, including 23 species not previously found in BaNPBZ (see Annex). Sixteen additional species were located in the desk study: Sanjib Acharya, eBird (4), Satish Paudel, eBird (1), Lalmani Regmi, eBird (1), Ram Shahi et al., Annual Waterbird Counts (5), and Vikaram Tiwari, eBird (5). Altogether 39 new species were added to the 236 species listed in the first checklist (BCN et al. 2016), making a new total of 276 bird species for BaNPBZ.

Two globally threatened birds were recorded in the present survey: red-headed vulture *Sarcogyps calvus* and great slaty woodpecker *Mulleripicus pulverulentus* and one more was located in the desk study: Indian spotted eagle *Clanga hastata* (Vikram Tiwari, eBird). Globally threatened species given in the original checklist were: Egyptian vulture *Neophron percnopterus*, white-rumped vulture *Gyps bengalensis*, steppe eagle *Aquiila nipalensis*, great hornbill *Buceros bicornis*, great slaty woodpecker and white-throated bushchat *Saxicola insignis* (BCN et al. 2016). However, since 2016, no records could be located for any of the above-mentioned globally threatened species, except great slaty woodpecker for which BaNPBZ supports significant populations.

A total of 31 species characteristic of the Indo-Malayan tropical dry zone biome has been recorded in BaNPBZ (Table 2) including 25 species recorded in the present survey.

Table 1. Survey routes Banke National Park and Buffer Zone

Date	Time (hr)	Survey route	Length (km)
5 March	15.30-1800	Western Gabhar valley, BZ	3
6 March	0745-11.45	Karauti machan - Gaukholi River crossing, NP	5
6 March	16.00-17.45	Near Sukaiya guard post, NP	1.5
7 March	07.30-11.30	Muguwa, NP	5
7 March	15.45-18.00	Central Gabhar valley, BZ	4.5
8 March	07.30-11.15	Gaukholi River valley, BZ	6
8 March	17.00-1800	Gabhar valley, BZ	1.5
9 March	08.15-11.40	Gabhar River valley – Rapti River valley, BZ	8
9 March	15.30-17.30	Sikta Barrage, BZ	1.5
10 March	07.45-11.00	Khadgabar Hattisar, BZ	4
10 March	16.30-17.45	Kanuwa Tal, BZ	2.5
11 March	15.30-17.30	Western Gabhar valley, BZ	1.5

Globally threatened species

Egyptian vulture Neophron percnopterus

Globally Endangered. The only known record(s) were in April/May 2016 (Chaudhary 2016). Considered a rare resident in BaNPBZ (BCN et al. 2016). Uncommon breeding resident in Nepal (Grimmett et al. 2016).

Red-headed vulture Sarcogyps calvus

Globally Critically Endangered. The only known record is one seen in Gabhar Valley, BZ on 9 March 2024 (Giri et al. 2024). Rare breeding resident in Nepal (Grimmett et al. 2016).

White-rumped vulture Gyps bengalensis

Globally Critically Endangered. The only known records were in the Annual Road Count of Vultures in 2016 (Bhusal et al. 2016). Considered an uncommon resident in BaNPBZ (BCN et al. 2016). Generally, a rare breeding resident in Nepal (Grimmett et al. 2016).

Indian spotted eagle Clanga hastata

Globally Vulnerable. One was seen in the Gabhar Valley, BZ on 8 May 2019 (Vikram Tiwari, eBird). Very uncommon breeding resident in Nepal (Grimmett et al. 2016).

Steppe eagle Aquila nipalensis

Globally Endangered. Only recorded in April 2016 (Chaudhary 2016). Considered an uncommon winter visitor to BaNPBZ (BCN et al. 2016). Locally frequent winter visitor and passage migrant in Nepal (Grimmett et al. 2016).

Great hornbill Buceros bicornis

Globally Vulnerable. Two were seen in the national park on 14 February 2011 (Sanjib Acharya, eBird) and also seen in the park in 2016 (other details unknown) (Ale 2016). Considered a rare resident in BaNPBZ (BCN et al. 2016). Two were recorded in the Gabhar Valley, BZ on 6 May 2019 (Vikram Tiwari, eBird). Uncommon breeding resident in Nepal (Grimmett et al. 2016).

Great slaty woodpecker Mulleripicus pulverulentus

Globally Vulnerable. One seen on 10 February 2011 at Shamsherganj in the national park was the first record in BaNPBZ (Baral et al. 2012). Other records were: 4-6 birds seen in the national park 3-4 km east of the BaNP headquarters, and eight birds near Pragatisihii Community Forest recorded in February 2012 (Baral et al. 2012).

Considered a rare resident in BaNPBZ (BCN et al. 2016). Two were seen in the Gabhar valley, BZ on 8 May 2019 (Vikram Tiwari, eBird). Six were seen at Khadgabar Hattisar, BZ on 10 March 2024 (Giri et al. 2024) and recorded regularly in this area (Prem Karki, Senior Game Scout). Uncommon breeding resident in Nepal (Grimmett et al. 2016).

White-throated bushchat Saxicola insignis

Globally Vulnerable. The only known record is one seen in grassland by the Babai Riverbed, buffer zone in February 2012 (Baral et al. 2012). Listed as a very rare winter visitor in BaNPBZ (BCN et al. 2016). Very rare winter visitor and passage migrant in Nepal (Grimmett et al. 2016).

Other notable records

Asian woollyneck Ciconia episcopus

Globally Near-threatened. Only recorded in the national park February 2012 (Baral et al. 2012). Considered an uncommon resident in BaNPBZ (BCN et al. 2016). Frequent and widespread resident in Nepal (Grimmett et al. 2016).

River lapwing Vanellus duvaucelii

Globally Near-threatened. First recorded in the national park in February 2012 (Baral et al. 2012). Considered an uncommon resident in BaNPBZ (BCN et al. 2016). Four were seen by the Gabhar River, BZ and two by the Rapti River on 9 March 2024 (Giri et al. 2024). Locally fairly common resident in Nepal (Grimmett et al. 2016).

Himalayan griffon Gyps himalayensis

Globally Near-threatened. Eight recorded near Kanchanpur in February 2011was the first record for BaNPBZ; also seen over the river bed near Agaiha (Baral et al. 2012). Considered an uncommon winter visitor to BaNPBZ (BCN et al. 2016). A widespread resident, subject to altitudinal movements and partial migrant in Nepal (Grimmett et al. 2016).

White-naped woodpecker Chrysocolaptes festivus

One seen in the national park on 14 February 2011 (Sanjib Acharya, eBird) was the first record; also recorded from the park in February 2012 (Baral et al. 2012). Considered a rare resident in BaNPBZ (BCN et al. 2016). Recorded from the Gabhar valley BZ: 4 on 16 January 2024 (Ram Shahi et al. 2024) and one on 9 March 2024 (Giri et al. 2024) (Figure 6). An uncommon resident in western Nepal (Grimmett et al. 2016) (Figure 6).



Figure 6. White-naped woodpecker Chrysocolaptes festivus

Alexandrine parakeet Paleaornis eupatria

Globally Near-threatened. Recorded without details in the national park on 14 February 2011 (Sanjib Acharya, eBird) and also recorded in February 2012 (Baral et al. 2012). Considered a common resident in BaNPBZ (BCN et al. 2016). Recorded daily in the national park and buffer zone in the March 2024 survey with a maximum of ten at Gaukholi, BZ on 8th and ten in the Gabhar valley, BZ on 9th March. One was seen in the BZ on 13 March 2024 (Prakriti Chataut, eBird). A widespread resident in Nepal, common in some protected areas, generally frequent or uncommon elsewhere (Grimmett et al. 2016).

Horsfield's bushlark Mirafra javanica

The only known record is one seen and heard song-flighting in the Gabhar valley, BZ on 5 March 2024 (Giri et al. 2024). A new species for BaNPBZ and Banke district. A local resident in Nepal (Grimmett et al. 2016).

Pale blue-flycatcher Cyornis unicolor

Two males were seen and photographed at Khadgabar Hattisar, BZ on 10 March 2024 (Giri et al. 2024). After consulting Grimmett et al. (2016), Inskipp et al. (2016) and eBird, this record appears to be the westernmost record of the species in Nepal. The birds were probably passage migrants in BaNPBZ. A local and frequent resident and summer visitor in Nepal, previously recorded from west-central Nepal and further east (Grimmett et al. 2016).

Fire-capped tit Cephalopyrus flammiceps

One was seen and photographed on 5 March in the Gabhar valley (Figure 7). Very uncommon in Nepal, probably resident, also an erratic visitor (Grimmett et al. 2016).



Figure 7. Fire-capped tit Cephalopyrus flammiceps

Some other bird species recorded in BaNP

Black-winged kite Elanus caeruleus

Black-winged kite (Figure 8) was found to be a frequent resident in open country in BaNPBZ by BCN et al. (2016) and in our survey. A fairly common and widespread resident in Nepal (Grimmett et al. 2016).



Figure 8. Black-winged kite Elanus caeruleus

White-eyed buzzard Butastur teesa

White-eyed buzzard (Figure 9) was found to be a fairly common resident in forest clearings in BaNPBZ by BCN et al. (2016) and in our survey. A fairly common and widespread resident in Nepal (Grimmett et al. 2016).



Figure 9. White-eyed buzzard Butastur teesa

Little Grebe Tachybaptus ruficollis

The first record of little grebe (Figure 10) for BaNPBZ was four birds found in this survey in Kanuwa Tal in the buffer zone on 10th March. It is considered possibly a resident or a visitor in BaNPBZ. A fairly common resident and winter visitor in Nepal (Grimmett et al. 2016).



Figure 10. Little grebe Tachybaptus ruficollis

Indian thick-knee Burhinus indicus

Indian thick-knee (Figure 11) was found to be a frequent resident on shingle river-banks in BaNPBZ by BCN et al. (2016) and in our survey results. A frequent and locally common resident in Nepal (Grimmett et al. 2016).



Figure 11. Indian thick-knee *Burhinus indicus*Yellow-wattled Lapwing *Vanellus malarbaricus*

Yellow-wattled lapwing (Figure 12) was found to be an uncommon resident on river banks in BaNPBZ by BCN et al. (2016) and in our survey. A local resident and winter visitor in Nepal (Grimmett et al. 2016).



Figure 12. Yellow-wattled lapwing *Vanellus malarbaricus* **Grey-capped emerald dove** *Chalcophaps indica*

Grey-capped emerald dove (Figure 13) was found to be a fairly common resident in broadleaved forests in BaNPBZ by BCN et al. (2016) and in our survey. A locally common resident in Nepal (Grimmett et al. 2016).



Figure 13. Grey-capped emerald dove Chalcophaps indica

Yellow-footed green-pigeon Treron phoenicoptera

Yellow-footed green-pigeon (Figure 14) was found to be a fairly common resident in broadleaved forest in BaNPBZ by BCN et al. (2016) and in our survey. A widespread and locally common resident in Nepal (Grimmett et al. 2016).



Figure 14. Yellow-footed green-pigeon *Treron phoenicoptera* **Large-tailed nightjar** *Caprimulgus macrurus*

Large-tailed nightjar (Figure 15) was found to be a fairly common resident in forest edges and clearings in BaNPBZ by BCN et al. (2016) and in our survey. A locally fairly common resident in Nepal (Grimmett et al. 2016).



Figure 15. Large-tailed nightjar Caprimulgus macrurus

Coppersmith barbet Megalaima haemacephala

Coppersmith barbet (Figure 16) was found to be a frequent resident in open woodland in BaNPBZ by BCN et al. (2016) and in this survey. A widespread and frequent to common resident in Nepal (Grimmett et al. 2016).



Figure 16. Coppersmith barbet Megalaima haemacephala

Eurasian wryneck Jynx torquilla

The first record of Eurasian wryneck (Figure 17) for BaNPBZ was one seen in this survey at the edge of farmland in the buffer zone on 5th March. It is considered to be a winter visitor or a passage migrant to BaNPBZ. A frequent passage migrant and winter visitor to Nepal (Grimmett et al. 2016).



Figure 17. Eurasian wryneck Jynx torquilla

Indian roller Coracias benghalensis

Indian roller (Figure 18) was found to be a fairly common resident in open woodland and cultivation by BCN et al. (2016) and in this survey. A common and widespread resident in Nepal (Grimmett et al. 2016).



Figure 18. Indian roller Coracias benghalensis

Golden-fronted leafbird Chloropsis aurifrons

Golden-fronted leafbird (Figure 19) was found to be a frequent resident in BaNPBZ by BCN et al. (2016) and in this survey. A resident, fairly common in protected areas, frequent or uncommon elsewhere (Grimmett et al. 2016).



Figure 19. Golden-fronted leafbird Chloropsis aurifrons

Hair-crested drongo Dicrurus hottentottus

Hair-crested drongo (Figure 20) was found to be a common resident in broadleaved forest and frequently feeding on the flowers of *Bombax ceiba* by BCN et al. (2016) and in this survey. A quite widespread and fairly common resident (Grimmett et al. 2016).



Figure 20. Hair-crested drongo *Dicrurus hottentottus*Purple sunbird *Nectarinia asiatica*

Purple sunbird (Figure 21) was found to be a common bird in broadleaved forest, scrub and gardens in BaNPBZ by BCN et al. (2016) and in this survey. A common and widespread resident in Nepal (Grimmett et al. 2016).



Figure 21. Purple sunbird Nectarinia asiatica

4 | Discussion

Only 276 bird species have been recorded in BaNPBZ so far (BCN et al. 2016, this survey), compared to 523 species in adjacent Bardia National Park and Buffer Zone which has similar habitats and altitudinal range (BCN and DNPWC 2019). Even though Bardia covers roughly almost twice the area of BaNPBZ (BCN and DNPWC 2019), it is clear that the latter is still very under-recorded for birds. While this survey found 23 new species for the park, the lack of a 4-wheel drive vehicle restricted coverage of the core area of the park. We were only able to reach the lower altitude areas (155-200 m). Access to the full altitudinal range of the park (up to 1247 m) would undoubtedly have resulted in the recording of additional species. The park staff were as helpful as they could be but had limited resources. However, we were able to explore the buffer zone much more easily and here we found high quality and relatively undisturbed tropical broadleaved forests and riverine habitats, such as near

Khadgabar Hattisar, the Gaukholi River, and Gabhar and Rapti Rivers.

In the 2023 IBA assessment, BaNPBZ qualified as an IBA based on the globally threatened and characteristic biome species criteria (BCN et al. 2023). The area was thought to have significant populations of four globally threatened species: white-rumped and Egyptian vultures, great slaty woodpecker and steppe eagle (BCN et al. 2023). However, results of this survey and desk study showed evidence that significant populations of only one of these species (great slaty woodpecker) are still known to occur as the other three species have not been recorded since 2016. Significant populations of only one globally threatened species are needed for an area to qualify as an IBA (BirdLife International 2014), so BaNPBZ still qualifies under the globally threatened criterion. A total of eight globally threatened species have now been recorded in BaNPBZ (see Annex). With further survey work, more globally threatened species may be shown to have significant populations in BaNPBZ.

An area can also qualify as an IBA if it supports significant populations of characteristic species of a biome (BirdLife International 2014). BaNPBZ has extensive areas of the Indo-Malayan tropical dry zone biome (BCN et al. 2023) and supports a significant number of species characteristic of this biome (BCN et al. 2023), so qualifies as an IBA under this criterion. The results of this study provide evidence that BaNPBZ supports a higher number of characteristic species of the Indo-Malayan tropical dry zone biome than found previously. The large figure of 69 per cent of the total recorded for this biome in Nepal, has been found in the BaNPBZ, so strengthening justification of BaNPBZ as an IBA.

Lack of freshwater was identified as the major threat to wildlife in the national park. The opportunity to create water holes by pumping up groundwater to the surface using solar power was limited, because the groundwater level is generally too low in the national park. Poaching has reduced since the national park was established (Manoj Shah, Chief Warden *verbally to* C. Inskipp and T. Giri, 5 March 2024).

5 | Conclusions

With only 276 bird species recorded up to 6 April 2024, all in the lower altitudes of the park (155-200 m), BaNPBZ is still significantly under-recorded. Many more species are likely to be found with full coverage of the national park, including the entire altitudinal range up to 1247 m. The use of a 4-wheel drive vehicle would be needed. Further coverage of the buffer zone is also likely to produce records of additional species. Future surveys are highly recommended in all seasons and covering all habitats and the whole altitudinal range in both the national park and buffer zone.

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Authors' contributions

All authors carried out the survey work, contributed to the drafts and gave final approval for publication. CI researched additional records, analyzed data and wrote the manuscript. RS and TG provided the bird photographs and CI the landscape photographs

Conflicts of interest

The authors declare no conflict of interest.

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Annex 1. Annotated list of birds recorded in Banke National Park and Buffer Zone

Order, family name, English name	Scientific name	Ref. no.	IUCN Status	NRDB	BRS	CITES
Galliformes						
Phasianidae						
Indian peafowl	Pavo cristatus	3	LC	LC	X	III
Black francolin	Francolinus francolinus	3	LC	LC		
Grey francolin	Ortygornis pondicerianus	3	LC	VU		
Red junglefowl	Gallus gallus	3	LC	LC		
Kalij pheasant	Lophura leucomelanos	13	LC	LC		III
Anseriformes						
Anatidae						
Lesser whistling-duck	Dendrocygna javanica	8	LC	LC		
Goosander	Mergus merganser	3	LC	LC		
Ruddy shelduck	Tadorna ferruginea	3	LC	NT		
Red-crested pochard	Netta rufina	10	LC	LC		
Northern pintail	Anas acuta	11	LC	EN		
Podicipediformes						
Podicipedidae						
Little grebe	Tachybaptus ruficollis	7	LC	LC		
Columbiformes						
Columbidae						
Rock dove	Columba livia	3	LC	LC		
Oriental turtle-dove	Streptopelia orientalis	3	LC	LC		
Eurasian collared-dove	Streptopelia decaocto	3	LC	LC		
Red turtle-dove	Streptopelia tranquebarica	6	LC	LC		
Western spotted dove	Spilopelia suratensis	3	LC	LC		
Laughing dove	Spilopelia senegalensis	5	LC	LC		
Grey-capped emerald dove	Chalcophaps indica	3	LC	LC		
Orange-breasted green-pigeon	Treron bicinctus	6	LC	LC		
Yellow-footed green-pigeon	Treron phoenicopterus	6	LC	LC	X	_
Caprimulgiformes						
Caprimulgidae						
Large-tailed nightjar	Caprimulgus macrurus	6	LC	NT		
Savanna nightjar	Caprimulgus affinis	3	LC	NT		
Apodiformes						

Apodidae						
Crested treeswift	Hemiprocne coronata	3	LC	LC		
Himalayan swiftlet	Aerodramus brevirostris	3	LC	LC		
Asian palm-swift	Cypsiurus balasiensis	6	LC	LC		
Alpine swift	Tachymarptis melba	3	LC	LC		
House swift	Apus nipalensis	3	LC	LC		
Cuculiformes						
Cuculidae						
Greater coucal	Centropus sinensis	3	LC	LC		
Sirkeer malkoha	Taccocua leschenaultia	6	LC	LC	X	
Green-billed malkoha	Phaenicophaeus tristis	3	LC	LC		
Western koel	Eudynamys scolopaceus	6	LC	LC		
Banded bay cuckoo	Cacomantis sonneratii	6	LC	LC		
Grey-bellied cuckoo	Cacomantis passerinus	3	LC	LC		
Common hawk-cuckoo	Hierococcyx varius	3	LC	LC		
Indian cuckoo	Cuculus micropterus	6	LC	LC		
Common cuckoo	Cuculus canorus	6	LC	LC		
Gruiformes						
Rallidae						
White-breasted waterhen	Amaurornis phoenicurus	3	LC	LC		
Common moorhen	Gallinula chloropus	7	LC	LC		
CICONIIFORMES	•					
Ciconiidae						
Asian openbill	Anastomus oscitans	3	LC	VU		
Asian woollyneck	Ciconia episcopus	3	NT	NT		
Pelecaniformes						
Threskiornithidae						
Red-naped ibis	Pseudibis papillosa	3	LC	LC	X	
Ardeidae						
Black-crowned night-heron	Nycticorax nycticorax	7	LC	LC		
Green-backed heron	Butorides striata	3	LC	LC		
Indian pond-heron	Ardeola grayii	3	LC	LC		
Cattle egret	Bubulcus ibis	3	LC	LC		
Grey heron	Ardea cinerea	6	LC	LC		
Great white egret	Ardea alba	3	LC	LC		
Intermediate egret	Ardea intermedia	3	LC	LC		
Little egret	Egretta garzetta	3	LC	LC		
Suliformes	0 0					
Phalacrocoracidae						
Little eormorant	Microcarbo niger	6	LC	LC		
Great cormorant	Phalacrocorax carbo	3	LC	NT		
Charadriiformes						
Burhinidae						
Indian thick-knee	Burhinus indicus	3	LC	LC		
Charadriidae						
Little ringed plover	Charadrius dubius	3	LC	LC		
River lapwing	Vanellus duvaucelii	3	NT	NT		
Yellow-wattled lapwing	Vanellus malabaricus	6	LC	VU	X	
Red-wattled lapwing	Vanellus indicus	3	LC	LC		
Scolopacidae		-	_	-		
Temminck's stint	Calidris temminckii	10	LC	LC		
	Calidris minuta	10	LC	LC		
Little stint						
		3	LC	LC.		
Common sandpiper	Actitis hypoleucos	3	LC LC	LC LC		
Common sandpiper Green sandpiper	Actitis hypoleucos Tringa ochropus	3	LC	LC		
Little stint Common sandpiper Green sandpiper Common greenshank Common redshank	Actitis hypoleucos Tringa ochropus Tringa nebularia		LC LC	LC LC		
Common sandpiper Green sandpiper Common greenshank Common redshank	Actitis hypoleucos Tringa ochropus	3	LC	LC		
Common sandpiper Green sandpiper Common greenshank Common redshank Glareolidae	Actitis hypoleucos Tringa ochropus Tringa nebularia Tringa totanus	3	LC LC LC	LC LC LC		
Common sandpiper Green sandpiper Common greenshank Common redshank Glareolidae Little pratincole	Actitis hypoleucos Tringa ochropus Tringa nebularia	3 3 7	LC LC	LC LC		
Common sandpiper Green sandpiper Common greenshank Common redshank Glareolidae Little pratincole Strigiformes	Actitis hypoleucos Tringa ochropus Tringa nebularia Tringa totanus	3 3 7	LC LC LC	LC LC LC		
Common sandpiper Green sandpiper Common greenshank Common redshank Glareolidae Little pratincole Strigiformes Strigidae	Actitis hypoleucos Tringa ochropus Tringa nebularia Tringa totanus Glareola lacteal	3 3 7 6	LC LC LC	LC LC LC	ī	
Common sandpiper Green sandpiper Common greenshank Common redshank Glareolidae Little pratincole Strigiformes Strigidae Brown boobook	Actitis hypoleucos Tringa ochropus Tringa nebularia Tringa totanus Glareola lacteal Ninox scutulata	3 3 7 6	LC LC LC LC	LC LC LC NT		II II
Common sandpiper Green sandpiper Common greenshank Common redshank Glareolidae Little pratincole Strigiformes Strigidae	Actitis hypoleucos Tringa ochropus Tringa nebularia Tringa totanus Glareola lacteal	3 3 7 6	LC LC LC	LC LC LC	I	II II

Indian scops-owl	Otus bakkamoena	7	LC	LC		II
Oriental scops-owl	Otus sunia	6	LC	DD		II
Accipitriformes						
Pandionidae						
Osprey	Pandion haliaetus	9	LC	LC		II
Accipitridae						
Black-winged kite	Elanus caeruleus	3	LC	LC		II
Oriental honey-buzzard	Pernis ptilorhynchus	3	LC	LC		II
Black baza	Aviceda leuphotes	1	LC	NT		II
Crested serpent-eagle	Spilornis cheela	3	LC	LC		II
Egyptian vulture	Neophron percnopterus	6	EN	VU		II
Red-headed vulture	Sarcogyps calvus	7	CR	EN	X	II
Himalayan griffon	Gyps himalayensis	3	NT	VU		II
White-rumped vulture	Gyps bengalensis	4	CR	CR	X	II
Griffon vulture	Gyps fulvus	4	LC	DD		II
Changeable hawk-eagle	Nisaetus cirrhatus	6	LC	LC		
Indian spotted eagle	Clanga hastata	12	VU	VU		
Steppe eagle	Aquila nipalensis	6	EN	VU		II
Booted eagle	Hieraaetus pennatus	3	LC	LC		II
Shikra	Accipiter badius	3	LC	LC		II
Besra	Accipiter virgatus	12	LC	LClc		II
Black kite	Milvus migrans	3	LC	LC		II
White-eyed buzzard	Butastur teesa	6	LC	LC	X	II
Bucerotiformes						
Bucerotidae	D 1' '	2	1711	EM		
Great hornbill	Buceros bicornis	2	VU	EN	V	I
Indian grey hornbill Oriental pied hornbill	Ocyceros birostris	3	LC LC	LC NT	X	II
•	Anthracoceros albirostris	3	LC	NT		II
Upupidae						
Common hoopoe	<i>Uрира ерор</i> ѕ	3	LC	LC		
Coraciiformes						
Meropidae						
Blue-bearded bee-eater	Nyctyornis athertoni	3	LC	LC		
Asian green bee-eater	Merops orientalis	3	LC	LC		
Chestnut-headed bee-eater	Merops leschenaulti	6	LC	LC		
Blue-tailed bee-eater	Merops philippinus	6	LC	LC		
Coraciidae	C	2	I.C.	I.C.		
Indian roller Oriental dollarbird	Coracias benghalensis	3	LC	LC		
Alcedinidae	Eurystomus orientalis	6	LC	LC		
Common kingfisher	Alcedo atthis	3	LC	LC		
Crested kingfisher	Megaceryle lugubris	3	LC	LC		
Pied kingfisher	Ceryle rudis	3	LC	LC		
Stork-billed kingfisher	Pelargopsis capensis	3	LC	LC		
White-breasted kingfisher	Halcyon smyrnensis	3	LC	LC		
Piciformes	Traicy on Smyrnensis	3	LC	ьс		
Megalaimidae						
Coppersmith barbet	Psilopogon haemacephalus	3	LC	LC		
Great barbet	Psilopogon virens	6	LC	LC		
Lineated barbet	Psilopogon lineatus	3	LC	LC	X	
Brown-headed barbet	Psilopogon zeylanicus	3	LC	LC	X	
Blue-throated barbet	Psilopogon asiaticus	3	LC	LC		
Picidae						
Eurasian wryneck	Jynx torquilla	7	LC	LC		
Speckled piculet	Picumnus innominatus	6	LC	LC		
Greater flameback	Chrysocolaptes guttacristatus	3	LC	LC		
White-naped woodpecker	Chrysocolaptes festivus	1	LC	LC	X	
Himalayan flameback	Dinopium shorii	3	LC	LC		
Black-rumped flameback	Dinopium benghalense	6	LC	LC	X	
Rufous woodpecker	Micropternus brachyurus	6	LC	LC		
Lesser yellownape	Picus chlorolophus	3	LC	LC		
Streak-throated woodpecker Black-naped woodpecker	Picus xanthopygaeus Picus guerini	<u>6</u> 3	LC LC	LC LC		

Great slaty woodpecker	Mulleripicus pulverulentus	3	VU	EN		
Grey-capped woodpecker	Picoides canicapillus	3	LC	LC		
Indian pygmy woodpecker	Picoides nanus	3	LC	LC		
Yellow-crowned woodpecker	Leiopicus mahrattensis	3	LC	LC	X	
Brown-fronted woodpecker	Leiopicus auriceps	3	LC	LC		
Fulvous-breasted woodpecker	Dendrocopos macei	3	LC	LC		
Falconiformes						
Falconidae						
Common kestrel	Falco tinnunculus	3	LC	LC		II
Eurasian hobby	Falco subbteo	7	LC	LC		II
Peregrine falcon	Falco peregrinus	5	LC	LC		I
Psittaciformes						
Psittacidae						
Slaty-headed parakeet	Psittacula himalayana	3	LC	LC		II
Plum-headed parakeet	Psittacula cyanocephala	3	LC	LC	X	II
Alexandrine parakeet	Paleaornis eupatria	3	NT	NT		II
Rose-ringed parakeet	Psittacula krameri	3	LC	LC		
Passeriformes						
Pittidae	Pitter born do one		I.C	I.C.		
Indian pitta	Pitta brachyura	6	LC	LC		
Oriolidae Black-hooded oriole	Oriolus xanthornus	າ	IC	1.0		
Indian golden oriole	Oriolus xanthornus Oriolus kundoo	<u>3</u>	LC LC	LC LC		
Campephagidae	บาเบเนร หนาเนบบ	O	ᇿ	LL		
Small minivet	Pericrocotus cinnamomeus	3	LC	LC	X	
Long-tailed minivet	Pericrocotus ethologus	3	LC	LC	Λ	
Scarlet minivet	Pericrocotus flammeus	3	LC	LC		
Indian cuckooshrike	Coracina macei	3	LC	LC		
Black-winged cuckooshrike	Lalage melaschistos	3	LC	LC		
Artamidae	Zuruge meruserisees					
Ashy woodswallow	Artamus fuscus	3	LC	LC	X	
Vangidae						
Bar-winged flycatcher-shrike	Hemipus picatus	3	LC	LC		
Large woodshrike	Tephrodornis virgatus	11	LC	LC		
Common woodshrike	Tephrodornis pondicerianus	3	LC	LC	X	
Aegithinidae						
Common iora	Aegithina tiphia	3	LC	LC		
Rhipiduridae						
White-browed fantail	Rhipidura aureola	3	LC	LC	X	
White-throated fantail	Rhipidura albicollis	6	LC	LC		
Dicruridae	Diametra and a succession	າ	I.C.	I.C.		
Black drongo	Dicrurus macrocercus Dicrurus leucophaeus	3 3	LC LC	LC LC		
Ashy drongo White-bellied drongo	Dicrurus teucophaeus Dicrurus caerulescens	3	LC	LC LC	X	
Crow-billed drongo	Dicrurus cuer diescens Dicrurus annectans	12	LC	LC	Λ	
Bronzed drongo	Dicrurus annectans Dicrurus aeneus	7	LC	LC LC		
Lesser racquet-tailed drongo	Dicrurus deneus Dicrurus remifer	12	LC	LC		
Hair-crested drongo	Dicrurus hottentottus	3	LC	LC		
Greater racquet-tailed drongo	Dicrurus paradiseus	3	LC	LC		
Monarchidae		<u> </u>	==			
Black-naped monarch	Hypothymis azurea	3	LC	LC		
Indian paradise-flycatcher	Terpsiphone paradisi	6	LC	LC		
Laniidae						
Brown shrike	Lanius cristatus	3	LC	LC		
Bay-backed shrike	Lanius vittatus	6	LC	LC		
Long-tailed shrike	Lanius schach	3	LC	LC		
Grey-backed shrike	Lanius tephronotus	3	LC	LC		
Corvidae						
Rufous treepie	Dendrocitta vagabunda	3	LC	LC		
Red-billed blue magpie	Urocissa erythroryncha	3	LC	LC		
		2	LC	LC		
House crow	Corvus splendens	3				
Large-billed crow	Corvus splendens Corvus macrorhynchos	3	LC	LC		

Grey-headed canary-flycatcher	Culicicapa ceylonensis	3	LC	LC	
Paridae		-	-		
Fire-capped tit	Cephalopyrus flammiceps	7	LC	LC	
Great tit	Parus major	3	LC	LC	
Black-lored tit	Machlolophus xanthogenys	3	LC	LC	
Alaudidae					
Ashy-crowned sparrow-lark	Eremopterix griseus	3	LC	LC	X
Horsfield's bushlark	Mirafra javanica	7	LC	LC	
Bengal bushlark	Mirafra assamica	3	LC	LC	X
Sand lark	Alaudala raytal	3	LC	LC	X
Oriental skylark	Alauda gulgula	6	LC	LC	
Crested lark	Galerida cristata	3	LC	NT	
Cisticolidae					
Zitting cisticola	Cisticola juncidis	3	LC	LC	
Striated prinia	Prinia crinigera	6	LC	LC	
Grey-breasted prinia	Prinia hodgsonii	3	LC	LC	
Jungle prinia	Prinia sylvatica	3	LC	LC	X
Yellow-bellied prinia	Prinia flaviventris	12	LC	NT	
Ashy prinia	Prinia socialis	3	LC	LC	X
Plain prinia	Prinia inornata	3	LC	LC	
Common tailorbird	Orthotomus sutorius	3	LC	LC	
Acrocephalidae					
Thick-billed warbler	Arundinax aedon	3	LC	LC	
Blyth's reed-warbler	Acrocephalus dumetorum	6	LC	LC	
Hirundinidae					
Red-rumped swallow	Cecropis daurica	6	LC	LC	
Barn Swallow	Hirundo rustica	3	LC	LC	
Asian plain martin	Riparia chinensis	3	LC	NT	
Pycnonotidae					
Black bulbul	Hypsipetes leucocephalus	3	LC	LC	
Black-crested bulbul	Rubigula flaviventris	3	LC	LC	
Red-whiskered bulbul	Pycnonotus jocosus	6	LC	LC	
Himalayan bulbul	Pycnonotus leucogenys	3	LC	LC	
Red-vented bulbul	Pycnonotus cafer	3	LC	LC	
Phylloscopidae					
Yellow-browed warbler	Phylloscopus inornatus	3	LC	LC	
Hume's leaf-warbler	Phylloscopus humei	3	LC	LC	
Ashy-throated warbler	Phylloscopus maculipennis	3	LC	LC	
Siberian chiffchaff	Phylloscopus tristis	3	LC	LC	
Tickell's leaf-warbler	Phylloscopus affinis	3	LC	LC	
Whistler's warbler	Phylloscopus whistleri	7	LC	LC	
Greenish warbler	Phylloscopus trochiloides	3	LC	LC	
Blyth's leaf-warbler	Phylloscopus reguloides	7	LC	LC	
Western crowned leaf-warbler	Phylloscopus occipitalis	6	LC	LC LC	
Grey-hooded warbler	Phylloscopus xanthoschistos	3	LC	LC	
Vireodinae	Emporate and bolongs		LC	LC	
White-bellied erpornis	Erpornis zantholeuca	6	LC	LC	
Zosteropidae	Zostowowa walioshwa mia	3	LC	LC	
Indian white-eye Timaliidae	Zosterops palpebrosus	3	LC	LC	
Pin-striped tit-babbler	Minamia aulania	3	LC	LC	
Leiotrichidae	Mixornis gularis	3	LC	LC	
Jungle babbler	Argya striata	3	LC	LC	X
White-crested laughingthrush	Garrulax leucolophus	6	LC	LC LC	Λ
Pellorneidae	дин ишл тейсогорниз	U	тſ	ъС	
Puff-throated babbler	Pellorneum ruficeps	3	LC	LC	
Sittidae	т спотнешн гијесерз	J	பட	ъС	
Indian nuthatch	Sitta castanea	7	LC	LC	
Chestnut-bellied nuthatch	Sitta custanea Sitta cinnamoventris	3	LC	LC LC	
Velvet-fronted nuthatch	Sitta frontalis	3	LC	LC	
Wallcreeper	Tichodroma muraria	3	LC	LC LC	
Sturnidae	rionoai oma mararia	J	ъс	пС	
Asian pied starling	Gracupica contra	7	LC	LC	
Brahminy starling	Sturnia pagodarum	6	LC	LC	X
אווווווווווא אמווווווון	элини ридоиинит	U	மட	ււ	Λ

Chestnut-tailed starling	Sturnia malabarica	6	LC	LC	X
Common myna	Acridotheres tristis	3	LC	LC	Λ
Bank myna	Acridotheres ginginianus	<u></u>	LC	LC	X
Jungle myna	Acridotheres fuscus	3	LC	LC	A
Spot-winged starling	Saroglossa spilopterus	7	LC	LC	
Turdidae	Sur ogrossu spriopter us	,	ьс	<u> </u>	
Scaly ghrush	Zoothera dauma	3	LC	LC	
Grey-winged blackbird	Turdus boulboul	3	LC	LC	
Tickell's thrush	Turdus unicolor	6	LC	LC	
Muscicapidae	i ui uus uiicoloi	0	ьс	ьс	
Blue whistling thrush	Myophonus caeruleus	3	LC	LC	
Blue rock-thrush	Monticola solitarius	10	LC	LC	
Verditer flycatcher	Eumyias thalassinus	3	LC	LC	
Red-breasted flycatcher	Ficedula parva	<u></u>	LC	LC	
Red-breasted flycatcher	Ficedula albicilla	3	LC	LC	
Snowy-browed flycatcher	Ficedula hyperythra	3	LC	LC	
Rufous-gorgeted flycatcher	Ficedula hyperyana Ficedula strophiata	3	LC	LC	
Ultramarine flycatcher	Ficedula su opniaca Ficedula superciliaris	<u>3</u>	LC	LC	
Slaty-blue flycatcher	Ficedula tricolor	7	LC	LC LC	
<u> </u>		7	LC LC		
Little pied flycatcher Plus throated blue flycatcher	Ficedula westermanni	-		LC LC	
Blue-throated blue-flycatcher	Cyornis rubeculoides	6	LC	LC	
Tickell's blue-flycatcher	Cyornis tickelliae	3	LC	LC	
Pale blue-flycatcher	Cyornis unicolor	7	LC	LC	
Pale-chinned flycatcher	Cyornis poliogenys	3	LC	LC	
Asian brown flycatcher	Muscicapa dauurica	6	LC	LC	
White-capped water-redstart	Phoenicurus leucocephalus	3	LC	LC	
Plumbeous water-redstart	Phoenicurus fuliginosus	3	LC	LC	
Black-backed forktail	Enicurus immaculatus	3	LC	LC	
Bluethroat	Luscinia svecica	2	LC	LC	
Small niltava	Niltava macgrigoriae	3	LC	LC	
Black redstart	Phoenicurus ochruros	3	LC	LC	
White-throated bushchat	Saxicola insignis	3	VU	EN	
Pied bushchat	Saxicola caprata	3	LC	LC	
Grey bushchat	Saxicola ferreus	3	LC	LC	
Common stonechat	Saxicola torquatus	3	LC	LC	
Indian robin	Copsychus fulicatus	3	LC	LC	
Brown rockchat	Oenanthe fusca	10	LC	LC	
Oriental magpie-robin	Copsychus saularis	3	LC	LC	
White-rumped shama	Copsychus malabarica	3	LC	LC	
Chloropseidae					
Golden-fronted leafbird	Chloropsis aurifrons	3	LC	LC	
Dicaeidae					
Thick-billed flowerpecker	Dicaeum agile	3	LC	LC	
Pale-billed flowerpecker	Dicaeum erythrorhynchos	3	LC	LC	
Plain flowerpecker	Dicaeum minullum	6	LC	LC	
Nectariniidae		<u> </u>			
Purple sunbird	Cinnyris asiaticus	3	LC	LC	
Crimson sunbird	Aethopyga siparaja	3	LC	LC	
Ploceidae	πουτορχημοίραι αμα	<u> </u>	20	щ	
Baya weaver	Ploceus philippinus	3	LC	NT	
Estrildidae	τιουσας μππρμπας	J	ьс	141	
Indian silverbill	Euodice malabarica	7	LC	NT	
Scaly-breasted munia	Lonchura punctulata	3	LC	LC	
Passeridae	ьонени и ринешиш	J	ъс	ьс	
	Passer domesticus	2	IC	I C	
House sparrow Chastrut should grad bush sparrow		3 3	LC	LC	
Chestnut-shouldered bush- sparrow	Gymnoris xanthocollis	3	LC	LC	
Motacillidae	And the control of all	2	I.C.	1.0	
Tree pipit	Anthus trivialis	3	LC	LC	
Olive-backed pipit	Anthus hodgsoni	3	LC	LC	
Rosy ripit	Anthus roseatus	6	LC	LC	
Paddyfield pipit	Anthus rufulus	3	LC	LC	
Long-billed pipit	Anthus similis	3	LC	LC	
Western yellow wagtail Grey wagtail	Motacilla flava Motacilla cinerea	<u>6</u> 3	LC LC	LC LC	

White-browed wagtail	Motacilla maderaspatensis	3	LC	LC	
White wagtail	Motacilla alba	3	LC	LC	
Fringillidae					
Common rosefinch	Carpodacus erythrinus	1	LC	LC	
Emberizidae					
Crested bunting	Emberiza lathami	3	LC	LC	
Rock bunting	Emberiza cia	7	LC	LC	
Pine bunting	Emberiza leucocephalus	3	LC	LC	

Legend to the annex 1: IUCN status and NRDB (Nepal Red Data Book) status:

CR Critically Endangered; EN Endangered; VU Vulnerable; NT Neat-threatened; LC Least Concern; DD Data Deficient

BRS Species characteristic species of the Indo-Malayan tropical dry zone biome

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Note: References 1–6 and 11 are all included in the initial BaNPBZ checklist, BCN et al. (2016).