Avifaunal Diversity in Important Bird Areas of Western Nepal

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Keywords: avian community, bird checklist, Important Bird Area, threats

Abstract

The rural municipality of Barekot in Jajarkot district is an Important Bird Area (IBA) in Western Nepal. In recent years, illegal hunting and trapping have increased in this area. Additionally, a hydropower project with a capacity of 410 MW is being constructed within Barekot. The present study aims to update the preliminary checklist of birds and to identify the underlying threats to the bird populations in this region. The bird survey was conducted in Barekot over four days in the late winter/early spring of 2021. Direct field observation, surveys of key informants, a literature review and photography were the main tools used for data collection. The study revealed 87 bird species belonging to 10 orders and 34 families. The birds most commonly recorded belong to the Muscicapidae family, order Passeriformes. Among the recorded species, two are on the IUCN Red List of Nationally Vulnerable species, five are listed in CITES Appendix II, and one species features in CITES Appendix I. Approximately 82% of the bird species recorded were of resident types. Despite a decline in bird diversity, Barekot's unique geographical location still makes it an important IBA in Nepal. Bird numbers have plummeted due to human intrusion and disturbance, and modifications to natural systems. Based on our findings, we recommend landscape-level research on the impacts of hydropower projects, roads, poaching, and the Covid-19 pandemic. Future conservation efforts should also emphasize the prevention of habitat fragmentation and raising public awareness.

Introduction

Avifauna play a critical role in ecosystem processes and functioning, for example in pollination, control of insect pest populations and scavenging; they are indicators of ecosystem health, affect crop productivity, and are instrumental in nutrient cycling and formation (Prakash et al. 2001; Amat & Green 2010; Bensizerara et al. 2013; Sekercioglu et al. 2016; Morante-Filho & Faria 2017). Since 2020, the diversity of avifauna has decreased owing to habitat destruction and human interference.

Karnali (28° 53' 43"-30° 25' 22.06 E", 82° 0' 0.6"-82°5'17.02"N) in Western Nepal is the country's largest province (24,453 km²) and has the smallest population (1,570,418) of the seven federal provinces in Nepal (26°22'9"-30°24'54"E, 81°24'27"-88°1'56"N) (CBS 2012). The altitude of Karnali province ranges from 180 m to 7,348 m. The province harbours birds (56% of the total number of species in Nepal), mammals (42%), butterflies (22%), fishes (32%), reptiles (11%), amphibians (43%), and flowering plants (42%). Several of these species are endemic to Nepal and are threatened by human activities that cause habitat loss and fragmentation (Bista et al. 2017; Lama et al. 2020; Acharya & Paudel 2020; Shrestha et al. 2021(b). Nepal is home to 886 bird species (DN-PWC and BCN, 2018) and has a total of 27 Important Bird Areas (IBAs). Karnali is home to 496 different species of birds and has four IBAs: Barekot, Limi valley, Rara National Park and Shey Phokshundo National Park (Acharya & Paudel 2020).

Barekot (28°54'40"–29°0'45"E, 82°16'41"– 82°17'43.53"N), Western Nepal, is in Jajarkot district (28°59'25"– 28°58'42"E, 81°52'52"–82°21'43"N), Karnali Province. The district lies in a region that is ecologically very fragile; it has an elevation range of 610 m to 5,412 m, and is ranked *very high* in the climate change vulnerability ranking index (MoFSC 2016; UNRCHCO 2021). The Government of Nepal has recently invested in hydropower projects in Jajarkot district, and one plant is currently under construction within Barekot's IBA. It is believed that this project will have adverse impacts on the local flora and fauna. Barekot is home to a number of endangered and rare mammals and birds (Bhusal & Singh 2017; Acharya & Paudel 2020). The study area is also plagued by hunting and trapping, poisoning, illegal logging, encroachment, overgrazing and overfishing (DNPWC 2017).

Despite the area's rich biodiversity and good bird habitats (Acharya & Paudel 2020), our knowledge of the status of bird species and their overall diversity in Barekot is very limited. The majority of bird studies in Nepal have focused on the southern foothills (Terai region; 60 m to 210 m). Only a handful of articles about bird species from Karnali province are available. In 2015, 146 bird species were recorded in Jajarkot district (Paudel & Bhusal 2015). The present study aims to update the bird checklists, for the first time since 2015, according to their taxa, IUCN status (i.e. critically endangered, endangered, or vulnerable), CITES Appendix status (Appendices I, II, III), occurrence status (resident or visitor), and associated threats.

Methods

Study area

Barekot, whose elevation ranges from 1,510 to 5,222 m a.s.l, is the largest rural municipality (RM) of Jajarkot district. Barekot has a total area of 57,526 hec-



Figure 1– Study area: The rural municipality of Barekot in Nepal.

tares and a population of 18,083. The forest coverage of Barekot is 33,734 hectares, which is 0.54% of Nepal's total forest area and 10.10% of that of Karnali province (Table 1). The region is highly vulnerable to ecological challenges such as landslides and fire, as well as to epidemics, including cholera, diarrhea and influenza (Bhandari et al. 2009; Upadhyay et al. 2016; UNRCHCO 2021).

Western Himalayan subalpine conifer forests make up the majority of Barekot's habitat. There are also alpine shrub and grassland habitats in this region. The climate in most of the region is mild and temperate, with dry winters and warm summers. It also has snowy climate zones, with dry winters and cool summers.

Although this region does not have protected status, it lies in close proximity to several important protected areas, including Rara National Park, Khaptad National Park and Api Nampa Conservation Area to the west; Annapurna Conservation Area and Dhor-

Table 1 – Adapted from CBS (2014) and DFRS (2018).

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Region	Population (individuals)	Elevation (m a.s.l.)	Forest area (hectares)	Total area (hectares)
Barekot	18,083	1,510–5,222	33,734	57,526
Jajarkot	171,304	610–5,412	133,268	221,436
Karnali Province	1570418	180–7,348	3,061,752	1,177,033
Nepal	26,494,504	64–8,848	1,4262,567	6,230,537

patan Hunting Reserve to the east; Shey-Phoksundo National Park to the north, and Bardia National Park to the south (Figure 1). Barekot's unique geographical location makes it a critical IBA in Nepal.

Barekot is home to many threatened species, including the Himalayan red panda (Ailurus fulgens fulgens), Himalayan black bear (Ursus thibetanus), musk deer (Moschus spp.), northern red deer (Muntiacus vaginalis), Himalayan tahr (Hemitragus jemlahicus), common goral (Naemorhedus goral), Himalayan serow (Capricornis thar), and blue sheep (Pseudois nayaur) (Acharya and Paudel 2020; Shrestha et al. 2021a; Shrestha et al. 2021b). Additionally, the study area is also home to various endangered avian species, such as the Cheer pheasant (Catreus wallichii), Red-headed Vulture (Sarcogyps calvus), and Egyptian Vulture (Neophron percnopterus); the nationally threatened Satyr Tragopan (Tragopan satyra), Bearded Vulture (Gypaetus barbatus), Himalayan Griffon (Gyps himalayensis), and Brown Fish Owl (Bubo zeylonensis); and the Himalayan Monal (Lophophorus impejanus), a Protected bird of Nepal (Paudel & Bhusal 2015). As Barekot has great conservation significance, particularly for birds, the local government has planned to designate the region a conservation area. The aim, while leveraging its tourism potential and promoting the local economy, is to preserve its rich biodiversity and landscape (NTNC 2019).

Survey methods

A number of complementary methods were used to collect information about avian fauna and associated threats. These included (i) studying the literature; (ii) unstructured interviews with community members; (iii) consultations with experts and selected key stakeholders; (iv) field visits. A questionnaire was administered to 40 households selected randomly from the records of the community forests' user group. The questionnaires, written in the Nepali language and administered orally, concerned the distribution of bird species and their habitat use.

Field survey

Field surveys were carried out over 4 days in late winter/early spring (23–26 April 2021), from 0700 hrs to 1700 hrs. A comprehensive list of the birds found in the area was recorded. We followed the Timed Species Count (TSC) approach by Bibby et al. (2000) to compile the bird survey data (see Appendix I). Additionally, we referred to a bird field guide by Richard Grimmett et al. (2016) and *Birds of Nepal* (2016) to identify the species. We surveyed birds in four blocks of Barekot RM (i. e. Eastern, Western, Southern and Northern blocks), which have an elevation range of 1,800 m to 2,400 m. These survey blocks were selected based on the land-cover patterns, potential as habitat for species, vegetation, and disturbance factors. A team of 10 individuals were involved in the survey.

Data analysis

A daily list of birds seen and heard was kept in a notebook. The final list of birds was produced using Excel by combining information from observations, consultations and surveys. Birds recorded were evaluated for their global and national importance or status (e.g. threatened), as well as their migratory status. Habitat information and bird records, particularly for threatened/migratory species, were correlated with each other.

Materials

Garmin eTrex-14 GPS and Nikon Monarch 7 8X42 binoculars were used to observe bird species closely; a Canon EOS 80D digital SLR camera with Canon RF 600mm f/11 IS STM lens was used to capture photos; measuring tapes and stationary materials were also used during the field survey. Maps and topographical sheets of the area were also used. Local people were interviewed to collect information on any prevailing threats.

Results

A total of 87 bird species (10 orders and 34 families) were recorded in the study area (see Appendix). The majority of the bird species documented belong to the order *Passeriformes* (Figure 2). *Muscicapidae* is the largest family (n=9 species), followed by *Phylloscopidae*



Figure 2 – Order-wise composition of birds in the rural municipality of Barekot, Jajarkot.



Figure 3 – Occurrence status of birds in he rural municipality of Barekot, Jajarkot.





Figure 4 – Venn diagram showing bird occurrence status for species orders.

and *Leiotrichidae*, each with 7 species. Only one species was recorded for each of the following families: *Phasianidae*, *Apodidae*, *Ardeidae*, *Phalacrocoracidae*, *Psittacidae*, *Aegithalidae*, *Timaliida*, *Cinclidae*, *Sturnidae*, *Turdidae*, *Chloropseidae*, *Dicaeidae* and *Emberizidae*. Among the reported bird species, 81.61% (n=71 species) were of the resident type, and 18.39% (n=16 species) were winter visitors. 34 species (39.08%) of birds were common or fairly common; 18 species (20.69%) were sporadic / occasional, and 1 species (1.15%) was rare (Figure 3). Species belonging to the *Piciformes* order included both residents and winter visitors, whilst species belonging to *Suliformes* were winter visitors only (Figure 4).

Two species, the Himalayan Griffon (*Gyps hima-layensis*) and Bearded Vulture (*Gypaetus barbatus*), have



Figure 5 – Olive-Backed Pipit (Anthus hodgsoni). © Saroj Shrestha



Figure 6 – Grey bushchat (Saxicola ferreus) © Sony Lama

nationally vulnerable status in the International Union for Conservation of Nature and Natural Resources (IUCN) Red Data Book; 85 species are of *least concern* in the Data Book. Six species were listed in the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES); five are listed in Appendix II of the CITES Convention, and one in Appendix III of the CITES Convention. None of the recorded bird species are protected by Nepal's National Parks and Wildlife Conservation (NPWC) Act.

The field survey and interviews indicate that the primary threats to avian diversity and survival are poaching and habitat modification.

Discussion

Our study provides the first detailed checklist of birds from Barekot in Western Nepal (see Appendix), with information on species taxa, IUCN threatened species status (i.e. critically endangered, endangered, and vulnerable), CITES Appendix status (CITES Appendices I, II, III), occurrence status (i.e., resident type or visitor type), and associated threats. This study recorded 17.54% of the bird species found in the Karnali region and 9.81% of the total number of bird species found in Nepal. However, in a similar study by Paudel and Bhusal (2015), 146 bird species were identified in Jajarkot district, mostly in Barekot, indicating the drastic decrease in bird species diversity in the region.

Until 2019, the study area in Jajarkot district was not connected by a road usable by motorized vehicles, but the ongoing construction of the hydropower project within the IBA of Barekot has resulted in increased movement of vehicles and people in the area. This has been a key contributing factor to species habitat destruction. The most serious threats to Nepal's bird populations and diversity are habitat loss, degradation and fragmentation (Inskipp et al. 2017). Stephens et al. (2004) concluded that habitat fragmentation at larger scales may affect nesting success, thus reducing the bird populations. Bird species density is negatively associated with habitat fragmentation (Castelletta et al. 2005; Chace & Walsh 2006; Aronson et al. 2014). In India, dam-building has negatively affected montane birds in the Western Himalaya (Jolli 2017). Conservation biologists suggest that roads have a negative impact on adjacent habitats and their natural communities (Forman 2000; Rheindt 2003). In their study in Bhutan, Thinley et al. (2020) found that hydropower and roads pose a significant threat to wildlife. Rodrigues et al. (2018) suggest that high levels of noise adversely affect birds' behaviour and social communication. Perillo et al. (2017) found that anthropogenic noise can have a significant negative impact on bird diversity.

Illegal hunting and trapping are prevalent in this region (DNPWC & DFSC 2018). In the study area, Cheer pheasants are treated as gamebirds by local communities due to a lack of awareness and a negative attitude towards them (Biodiversity Conservancy Nepal 2016). The population of Galliformes has been reduced dramatically in many parts of Nepal, including protected areas like Kanchenjunga Conservation Area, as they are popular targets for hunters and trappers (Inskipp et al. 2008). In addition to all these factors, there are indications that the Covid-19 pandemic has forced locals to exploit forest resources more than ever, thus increasing the challenges of forest management. The majority of locals (84%) in the study area are engaged in the agricultural sector. Except for May and October (the two months of the agricultural season), most of the local youth head to India as migrant labour (UNRCHCO 2021). During lockdowns in Nepal, Covid-19-driven disruptions in global and regional supply chains, an economic recession, and negligible economic growth severely harmed the local economy and society (ILO 2020).

The impacts of the pandemic coupled with the escalating threats of poaching and habitat modification have serious implications for forest ecosystems in the region, especially bird diversity.

Conclusion

Although the study area accounts for only a small percentage of the entire Nepalese forest cover, it is rich in bird diversity. The geographical location of Barekot makes it an important IBA, despite the decrease in bird diversity. In recent years, populations of bird species in the study area have plummeted due to human activities and anthropogenic effects. This study provides information about the bird diversity of the study area during the early spring, but detailed allseason surveys are needed to evaluate precise bird diversity in Barekot. Further, in-depth longitudinal bird studies should also be carried out in Nepal, notably in Siwalik (~1,500 m) and Mahabharat lekh (600 m to 3,000 m). Also recommended are comprehensive studies of the impacts of the hydropower project, the construction of roads, illegal hunting and trapping, and Covid-19 on the local economy. Finally, awareness-raising campaigns to mitigate the effects of other harmful activities (notably killing or hunting bird species) are imperative.

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Appendix – Bird checklist for the study area. Notes on statutus: CITES Appendices: I - Appendix I, II - Appendix I, III - Appendix III; Conservation Status: VU - Nationally Vulnerable; Occurrence Status: R - Resident, W - Winter, 1 - Common.

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38 39 Ashy-throated Warbler Phylloscopus maculipennis N, 3 40 Grey-hooded Warbler Phylloscopus maculipennis N, 3 41 Erron-rumped Leaf-warbler Phylloscopus xanthoschistos R, 1 42 Eumon-rumped Leaf-warbler Phylloscopus zanthoschistos N, 3 43 Buff-barred Warbler Phylloscopus castaniceps N, 3 44 Chestnut-crowned Warbler Phylloscopus reguloides N, 3 44 Chestnut-headed Teisia Cettia castaneocoronata R, 3 45 Aegithalidae Red-headed Tit Aegithalos iredalei R, 1 46 Zosteropidae Oriental White-eye Zosterops palpebrosus R, 1 47 Miskered Yuhina Yuhina flavicollis R, 2 48 Whiskered Yuhina Yuhina flavicollis R, 2 50 Leiotrichidae Chestnut-crowned Laughingthrush Torchalopteron erythrocephalum R, 2 51 Striated Laughingthrush Garamatoptila striata R, 2 52 White-throated Minla Siva cyanouroptera R, 2 53 Bue-winged Minla Siva	37			Red-vented Bulbul	Pycpopotus cafer	R 1
30 Thyloscopidae Fashy middled Wabler Thyloscopis Indecliperints N, 3 39 Grey-hooded Warbler Phylloscopus xanthoschistos R, 1 40 Lemon-rumped Leaf-warbler Phylloscopus pulcher W, 3 41 Buff-barred Warbler Phylloscopus castaniceps R, 3 42 Blyth's Leaf-warbler Phylloscopus castaniceps R, 3 43 Chestnut-crowned Warbler Phylloscopus reguloides W, 3 44 Chestnut-crowned Warbler Phylloscopus castaniceps R, 3 45 Aegithalidae Red-headed Tit Aegithalos iredalei R, 1 46 Zosteropidae Oriental White-eye Zosterops palpebrosus R, 1 47 Stripe-throated Yuhina Yuhina gluaris R, 2 48 Vhiskered Yuhina Yuhina flavicollis R, 2 49 Timaliidae Black-chinned Babbler Cyanoderma pyrrhops R, 3 50 Leiotrichidae Chestnut-crowned Laughingthrush Garamatoptila striata R, 2 51 Striated Laughingthrush Garamatoptila striata R, 2 52 Striated Laugh	38		Phylloscopidge	Asby-throated Warbler	Phylloscopus maculinennis	W 3
37 Auge of the second seco	20		1 Hylloscopidde	Gray booded Warbler	Phylloscopus vanthoschistos	P 1
41 41 Fightscopes chilorologies W, 3 42 43 44 44 6 Fightscopes cataniceps R, 3 45 Aegithalidae Red-headed Tit Aegithalidae R, 1 46 Zosteropidae Oriental White-eye Zosterops palpebrosus R, 1 47 Stripe-throated Yuhina Yuhina gularis R, 2 48 Viskered Yuhina Yuhina flavicollis R, 2 49 Timaliidae Black-chinned Babbler Cyanoderma pyrrhops R, 3 50 Leiotrichidae Chestnut-crowned Laughingthrush Grammatoptila striata R, 2 51 Striated Laughingthrush Grammatoptila striata R, 2 52 Striated Laughingthrush Grammatoptila striata R, 2 53 Blue-throated Minla Siva cyanouroptera R, 2 54 Sittidae White-tailed Nuthatch Siva cyanouroptera R, 2 55 Sittidae White-tailed Nuthatch Siva cyanouroptera R, 2 56 Sittidae White-tailed Nuthatch Siva cyanouroptera R, 2 56 Sittidae White-tailed Nuthatch Sittia himalayensis R, 2 57 Stridae White-tailed Nuthatch Sitti	40					N, I W/ 2
41 Autorial variation Phylioscopus pulciter W, 3 42 Chestnut-crowned Warbler Phylloscopus castaniceps R, 3 43 Blyth's Leaf-warbler Phylloscopus reguloides W, 3 44 Chestnut-crowned Warbler Phylloscopus reguloides W, 3 44 Chestnut-headed Tesia Cettia castaneocoronata R, 3 45 Aegithalidae Red-headed Tit Aegithalos iredalei R, 1 46 Zosteropidae Oriental White-eye Zosterops palpebrosus R, 1 47 Stripe-throated Yuhina Yuhina flavicollis R, 2 48 Vhiskered Yuhina Yuhina flavicollis R, 2 49 Timaliidae Black-chinned Babbler Cyanoderma pyrrhops R, 3 50 Leiotrichidae Chestnut-crowned Laughingthrush Grammatoptila striata R, 2 51 Striated Laughingthrush Garmatoptila striata R, 2 52 Striated Laughingthrush Garulax albogularis R, 1 53 Blue-winged Minla Siva cyanouroptera R, 2 54 Sittidae White-tailed Nuthatch	40			Deff is surged Wand is a		W, 3
42 Chestrut-crowned Warbier Phylloscopus castaniceps R, 3 43 Blyth's Leaf-warbler Phylloscopus reguloides W, 3 44 Chestnut-headed Tesia Cettia castaneocoronata R, 3 45 Aegithalidae Red-headed Tit Aegithalos iredalei R, 1 46 Zosteropidae Oriental White-eye Zosterops palpebrosus R, 1 47 Stripe-throated Yuhina Yuhina gularis R, 2 48 Whiskered Yuhina Yuhina flavicollis R, 2 49 Timaliidae Block-chinned Babbler Cyanoderma pyrrhops R, 3 50 Leiotrichidae Chestnut-crowned Laughingthrush Torchalopteron erythrocephalum R, 2 51 Striated Laughingthrush Grammatoptila striata R, 2 51 Blue-winged Minla Siva cyanouroptera R, 2 52 Rufous Sibia Heterophasia capistrata R, 1 54 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 55 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 57 Sittidae <t< td=""><td>41</td><td></td><td></td><td>Butt-barred Warbler</td><td>Phylloscopus pulcher</td><td>VV, 3</td></t<>	41			Butt-barred Warbler	Phylloscopus pulcher	VV, 3
43 Blyth's Leat-warbler Phylloscopus reguloides W, 3 44 Chestnut-headed Tesia Cettia castaneocoronata R, 3 45 Aegithalidae Red-headed Tit Aegithalos iredalei R, 1 46 Zosteropidae Oriental White-eye Zosterops palpebrosus R, 1 47 Stripe-throated Yuhina Yuhina gularis R, 2 48 Whiskered Yuhina Yuhina flavicollis R, 2 49 Timaliidae Black-chinned Babbler Cyanoderma pyrrhops R, 3 50 Leiotrichidae Chestnut-crowned Laughingthrush Grammatoptila striata R, 2 51 Striated Laughingthrush Garnulax albogularis R, 1 52 White-throated Minla Siva cyanouroptera R, 2 54 Bar-throated Minla Siva cyanouroptera R, 2 55 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 56 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 57 Sitta case Granula sensitia	42			Chestnut-crowned Warbler	Phylloscopus castaniceps	к, з
44 Chestnut-headed Tesia Cettia castaneocoronata R, 3 45 Aegithalidae Red-headed Tit Aegithalos iredalei R, 1 46 Zosteropidae Oriental White-eye Zosterops palpebrosus R, 1 47 Stripe-throated Yuhina Yuhina gularis R, 2 48 Whiskered Yuhina Yuhina flavicollis R, 2 49 Timaliidae Black-chinned Babbler Cyanoderma pyrrhops R, 3 50 Leiotrichidae Chestnut-crowned Laughingthrush Torchalopteron erythrocephalum R, 2 51 Striated Laughingthrush Grammatoptila striata R, 2 52 Striated Laughingthrush Garulax albogularis R, 1 53 Rufous Sibia Kr 2 Siva cyanouroptera R, 2 54 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 55 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 57 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 58 Cin	43			Blyth's Leat-warbler	Phylloscopus reguloides	vv, 3
45 Aegithalidae Red-headed Tit Aegithalos iredalei R, 1 46 Zosteropidae Oriental White-eye Zosterops palpebrosus R, 1 47 Stripe-Ihroated Yuhina Yuhina gularis R, 2 48 Whiskered Yuhina Yuhina flavicollis R, 2 49 Timaliidae Black-chinned Babbler Cyanoderma pyrrhops R, 3 50 Leiotrichidae Chestnut-crowned Laughingthrush Torchalopteron erythrocephalum R, 2 51 Striated Laughingthrush Grammatoptila striata R, 2 52 Vhite-throated Kinla Siva cyanouroptera R, 2 53 Bue-winged Minla Siva cyanouroptera R, 2 54 Kufous Sibia Heterophasia capistrata R, 1 55 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 57 Sittidae Brown Dipper Cinclus pallosii R, 2 59 Sturnidae Common Myna Acridotheres tristis R, 1 60 Turdidae Long-billed Thrush Zoothera monticola W, 3	44			Chestnut-headed Tesia	Cettia castaneocoronata	R, 3
46 Zosteropidae Oriental White-eye Zosterops palpebrosus R, 1 47 Stripe-throated Yuhina Yuhina gularis R, 2 48 Whiskered Yuhina Yuhina flavicollis R, 2 49 Timaliidae Black-chinned Babbler Cyanoderma pyrrhops R, 3 50 Leiotrichidae Chestnut-crowned Laughingthrush Torchalopteron erythrocephalum R, 2 51 Striated Laughingthrush Grammatoptila striata R, 2 52 White-throated Laughingthrush Garulax albogularis R, 1 53 Blue-winged Minla Siva cyanouroptera R, 2 54 Aufous Sibia Heterophasia capistrata R, 1 55 Sitti dae White-tailed Nuthatch Sitta himalayensis R, 2 57 Sitti dae Brown Dipper Tichodroma muraria W, 3 58 Cinclidae Brown Myna Acridotheres tristis R, 1 59 Sturnidae Common Myna Acridotheres tristis R, 1	45		Aegithalidae	Ked-headed lit	Aegithalos iredalei	к, I
47 Stripe-throated Yuhina Yuhina gularis R, 2 48 Whiskered Yuhina Yuhina flavicollis R, 2 49 Timaliidae Black-chinned Babbler Cyanoderma pyrrhops R, 3 50 Leiotrichidae Chestnut-crowned Laughingthrush Trochalopteron erythrocephalum R, 2 51 Striated Laughingthrush Grammatoptila striata R, 2 52 White-throated Laughingthrush Garunlax albogularis R, 1 53 Bile-winged Minla Siva cyanouroptera R, 2 54 Bar-throated Minla Cheysominla strigula R, 2 55 Kufous Sibia Heterophasia capistrata R, 1 56 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 57 Grinclidae Brown Dipper Tichodroma muraria W, 3 58 Cinclidae Brown Dipper Ginclus pallasii R, 2 59 Sturnidae Common Myna Acridotheres tristis R, 1 60 Turdidae Long-billed Thrush Zoothera monticola W, 3	46		Zosteropidae	Oriental White-eye	Zosterops palpebrosus	R, 1
48 Whiskered Yuhina Yuhina flavicollis R, 2 49 Timaliidae Black-chinned Babbler Cyanoderma pyrrhops R, 3 50 Leiotrichidae Chestnut-crowned Laughingthrush Trochalopteron erythrocephalum R, 2 51 Striated Laughingthrush Grammatoptila striata R, 2 52 White-throated Laughingthrush Grammatoptila striata R, 2 53 White-throated Laughingthrush Garrulax albogularis R, 1 53 Blue-winged Minla Siva cyanouroptera R, 2 54 Bar-throated Minla Chrysominla strigula R, 2 55 Kufous Sibia Heterophasia capistrata R, 1 56 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 57 Cinclidae Brown Dipper Cinclus pallasii R, 2 58 Cinclidae Brown Dipper Cinclus pallasii R, 1 59 Sturnidae Common Myna Acridotheres tristis R, 1 60 Turdidae Long-billed Thrush Zoothera monticola W, 3	47			Stripe-throated Yuhina	Yuhina gularis	R, 2
49 Timaliidae Black-chinned Babbler Cyanoderma pyrrhops R, 3 50 Leiotrichidae Chestnut-crowned Laughingthrush Trochalopteron erythrocephalum R, 2 51 Striated Laughingthrush Grammatoptila striata R, 2 52 White-throated Laughingthrush Garrulax allogularis R, 1 53 Blue-winged Minla Siva cyanouroptera R, 2 54 Bar-throated Minla Chrysominla strigula R, 2 55 Kufous Sibia Heterophasia capistrata R, 1 56 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 57 Vallcreeper Tichodroma muraria W, 3 58 Cinclidae Brown Dipper Cinclus pallasii R, 2 59 Sturidae Long-billed Thrush Zoothera monticola W, 3	48			Whiskered Yuhina	Yuhina flavicollis	R, 2
S0 Leiotrichidae Chestnut-crowned Laughingthrush Trochalopteron erythrocephalum R, 2 51 Striated Laughingthrush Grammatoptila striata R, 2 52 White-throated Laughingthrush Garmatoptila striata R, 2 53 White-throated Laughingthrush Garrulax albogularis R, 1 53 Bue-winged Minla Siva cyanouroptera R, 2 54 Bar-throated Minla Chrysominla strigula R, 2 55 Rufous Sibia Heterophasia capistrata R, 1 56 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 57 Vallcreeper Tichodroma muraria W, 3 58 Cinclidae Brown Dipper Cinclus pallasii R, 2 59 Sturnidae Common Myna Acridotheres tristis R, 1 60 Turdidae Long-billed Thrush Zoothera monticola W, 3	49		Timaliidae	Black-chinned Babbler	Cyanoderma pyrrhops	R, 3
51 Striated Laughingthrush Grammatoptila striata R, 2 52 White-throated Laughingthrush Garrulax albogularis R, 1 53 Blue-winged Minla Siva cyanouroptera R, 2 54 Bar-throated Minla Chrysominla strigula R, 2 55 Rufous Sibia Heterophasia capistrata R, 1 56 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 57 Vallcreeper Tichodroma muraria W, 3 58 Cinclidae Brown Dipper Cinclus pallasii R, 2 59 Sturnidae Common Myna Acridotheres tristis R, 1 60 Turdidae Long-billed Thrush Zoothera monticola W, 3	50		Leiotrichidae	Chestnut-crowned Laughingthrush	Trochalopteron erythrocephalum	R, 2
52 White-throated Laughingthrush Garrulax albogularis R, 1 53 Blue-winged Minla Siva cyanouroptera R, 2 54 Bru-throated Minla Chrysominla strigula R, 2 55 Bar-throated Minla Chrysominla strigula R, 2 56 Kufous Sibia Heterophasia capistrata R, 1 57 Vallcreeper Tichodroma muraria W, 3 58 Cinclidae Brown Dipper Cinclus pallasii R, 2 59 Sturnidae Common Myna Acridotheres tristis R, 1 60 Turdidae Long-billed Thrush Zoothera monticola W, 3	51			Striated Laughingthrush	Grammatoptila striata	R, 2
53 Blue-winged Minla Siva cyanouroptera R, 2 54 Bar-throated Minla Chrysominla strigula R, 2 55 Rufous Sibia Heterophasia capistrata R, 1 56 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 57 Vallcreeper Tichodroma muraria W, 3 58 Cinclidae Brown Dipper Cinclus pallasii R, 2 59 Sturnidae Common Myna Acridotheres tristis R, 1 60 Turdidae Long-billed Thrush Zoothera monticola W, 3	52			White-throated Laughingthrush	Garrulax albogularis	R, 1
54 Bar-throated Minla Chrysominla strigula R, 2 55 Rufous Sibia Heterophasia capistrata R, 1 56 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 57 Wallcreeper Tichodroma muraria W, 3 58 Cinclidae Brown Dipper Cinclus pallasii R, 2 59 Sturnidae Common Myna Acridotheres tristis R, 1 60 Turdidae Long-billed Thrush Zoothera monticola W, 3	53			Blue-winged Minla	Siva cyanouroptera	R, 2
S5 Rufous Sibia Heterophasia capistrata R, 1 56 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 57 Wallcreeper Tichodroma muraria W, 3 58 Cinclidae Brown Dipper Cinclus pallasii R, 2 59 Sturnidae Common Myna Acridotheres tristis R, 1 60 Turdidae Long-billed Thrush Zoothera monticola W, 3	54			Bar-throated Minla	Chrysominla strigula	R, 2
56 Sittidae White-tailed Nuthatch Sitta himalayensis R, 2 57 Wallcreeper Tichodroma muraria W, 3 58 Cinclidae Brown Dipper Cinclus pallasii R, 2 59 Sturnidae Common Myna Acridotheres tristis R, 1 60 Turdidae Long-billed Thrush Zoothera monticola W, 3	55			Rufous Sibia	Heterophasia capistrata	R, 1
57 Wallcreeper Tichodroma muraria W, 3 58 Cinclidae Brown Dipper Cinclus pallasii R, 2 59 Sturnidae Common Myna Acridotheres tristis R, 1 60 Turdidae Long-billed Thrush Zoothera monticola W, 3	56		Sittidae	White-tailed Nuthatch	Sitta himalayensis	R, 2
58 Cinclidae Brown Dipper Cinclus pallasii R, 2 59 Sturnidae Common Myna Acridotheres tristis R, 1 60 Turdidae Long-billed Thrush Zoothera monticola W, 3	57			Wallcreeper	Tichodroma muraria	W, 3
59 Sturnidae Common Myna Acridotheres tristis R, 1 60 Turdidae Long-billed Thrush Zoothera monticola W, 3	58		Cinclidae	Brown Dipper	Cinclus pallasii	R, 2
60 Turdidae Long-billed Thrush Zoothera monticola W, 3	59		Sturnidae	Common Myna	Acridotheres tristis	R, 1
	60		Turdidae	Long-billed Thrush	Zoothera monticola	W, 3

SN	Order	Family	English name	Scientific name	Status
61	Passeriformes	Muscicapidae	Blue Whistling-thrush	Myophonus caeruleus	R, 1
62			Himalayan Bush-robin	Tarsiger rufilatus	W, 3
63			White-capped Water-redstart	Phoenicurus leucocephalus	R, 1
64			Blue-fronted Redstart	Phoenicurus frontalis	W, 1
65			Plumbeous Water-redstart	Phoenicurus fuliginosus	R, 1
66			Black-backed Forktail	Enicurus immaculatus	R, 3
67			Little Forktail	Enicurus scouleri	R, 2
68			Rufous-gorgeted Flycatcher	Ficedula strophiata	R, 2
69			Grey Bushchat	Saxicola ferreus	R, 2
70			Pied Bushchat	Saxicola caprata	R, 2
71		Chloropseidae	Orange-bellied Leafbird	Chloropsis hardwickii	R, 2
72		Dicaeidae	Fire-breasted Flowerpecker	Dicaeum ignipectus	R, 2
73		Nectariniidae	Green-tailed Sunbird	Aethopyga nipalensis	R, 2
74			Black-throated Sunbird	Aethopyga saturata	R, 2
75			Purple Sunbird	Cinnyris asiaticus	R, 1
76		Passeridae	Russet Sparrow	Passer cinnamomeus	R, 3
77			Eurasian Tree Sparrow	Passer montanus	R, 1
78			House Sparrow	Passer domesticus	R, 1
79		Motacillidae	Grey Wagtail	Motacilla cinerea	R, 2
80			Olive-backed Pipit	Anthus hodgsoni	W, 1
81			Rosy Pipit	Anthus roseatus	W, 2
82		Fringillidae	Pink-browed Rosefinch	Carpodacus rodochroa	W, 2
83			Dark-breasted Rosefinch	Procarduelis nipalensis	W, 2
84			Spot-winged Rosefinch	Carpodacus rodopeplus	W, 3
85			Scarlet Finch	Carpodacus sipahi	W, 3
86			Yellow-breasted Greenfinch	Chloris spinoides	R, 2
87		Emberizidae	Rock Bunting	Emberiza cia	W, 3