SJIF (2019): 7.583

An Updated Checklist of Globally Threatened Species in Bhutan as Listed in IUCN Red List of Threatened Species

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Abstract: Bhutan lies to the East of Himalaya and it hosts around 11,248 species in all taxa. Bhutan's lush and green forest covers 71 percent of land which comes under the five National Parks, four Wildlife Sanctuaries, 1 Strict Nature Reserve, Community Forests and biological corridors connecting different protected areas. More than half (51.44 percent) is protected by law and activities are restricted under certain circumstances. It is home to Takin (Budorcastaxicolorwhitei), White-bellied Heron (Ardeainsignis), Black-necked Crane (Grusnigricollis), Red Panda (Ailurusfulgens), Great Hornbill (Bucerosbicornis) and Chinese Pangolin (Manispentadactyla) that are globally threatened.Bhutan contributed around 23 new species between 2017 and 2020 which were new to science, and Bhutan's biodiversity holds immense opportunities for researchers and environmental scientists as its biodiversity is in early stage of discovery. To date, Bhutan records 1 species as Extinct (EX), 1 species as Extinct in the Wild (EW) and 134 species as Vulnerable (VU), Endangered (EN) and Critically Endangered (CR) under International Union of Conservation of Nature (IUCN) Red List of Threatened Species. This paper aims to report a checklist of globally threatened species listed in IUCN Red List of Threatened Species from Bhutan. The paper also lists down the new species that were discovered in Bhutan since 2017. More researchers are needed to discover new species from Bhutan's rich and lush forest.

Keywords: Threatened, Conservation, Biodiversity

1. Introduction

Bhutan, a landlocked kingdom between China and India, championed the conservation of environment before it joined any of the world bodies and conventions [22]. Bhutan lies in the Eastern Himalaya [3], with elevation ranging from 97 - 7570 meters above sea level (masl) [29]. The Eastern Himalaya range is one of the richest biodiversity hotspots covering 750,000 sq. km.[1] land area covering the Indian state of Sikkim, Arunachal Pradesh, Assam and West Bengal, Bhutan, Nepal, northern Myanmar and southeast Tibet (China)[26]. Bhutan is part of eight ecoregions, twenty-three important bird areas, important plant areas and wetlands with three Ramsar areas - Phobjikha, Khothokha and Bumdeling[17] [21]. The constitution of the Royal Kingdom of Bhutan mandates to keep 60 percent of its land under forest cover for all time to come[28], the current land under forest cover is 71 percent[5]. More than half (51.44 percent) of the land is protected under National Parks (5), Wildlife Sanctuaries (4), Strict Nature Reserve (1), and biological corridors connecting different protected areas[6]. The country currently hosts 11,248 species within all taxa (figure 1) including the Black-necked (Grusnigricollis), Great Hornbill (Bucerosbicornis), Rufousnecked Hornbill (Acerosnipalensis), White-bellied Heron (Ardeainsignis), Snow Leopard (Pantherauncia), Takin (Budorcastaxicolorwhitei), Chinese Pangolin (Manispentadactyla), Bhutan Swallowtail (Bhutanitisludlowi) and Blue Poppy (Meconopsisbhutanica) that are globally threatened[20] [21].

International Union for Conservation of Nature and Natural Resources (IUCN) was founded in 1948 to work in the field

of natural resources and biodiversity conservation[25]. The IUCN's Red List of Threatened Species was established in 1964and it is critical indicator of the health of biodiversity [31]. It is predicted that there are around 8.7 million species within all kingdom [19], where 14 percent species on land and 9 percent species in the ocean are described or documented[18]. 86 percent species on land and 91 percent species in the ocean await discovery and documentation[23]. Currently, more than 120,000 species is documented by IUCN Red List of Threatened Species, with more than 32,000 species threatened with extinction including 14 percent of birds, 41 percent of amphibians, 33 percent of reef building corals, 34 percent of conifers and 26 percent mammals [4].

Bhutan's documentation of biological diversity is at early stage. Between 2009 and 2017, Bhutan recorded 16 plants [31], 4 snails [7], 1 dragonfly [15], 3 fishes [10], 2 beetles, 1 stonefly, 4 moths and 2 aphids that were new record for science [20]. Moreover Bhutan also recorded 566 new species including 5 birds, 35 snails and slugs, 59 dragonflies and damselflies, 65 bees and wasps, 1 trueflies, 44 amphibians and reptiles, 101 plants, 108 fishes, 4 beetles, 14 crabs, 4 butterflies, 119 moths, 5 cicadas, and 2 bryophytes in the same years [11]. The new species record for Bhutan has occurred at a rate of 62 species per year (62.88%). Many of the species are not yet discovered and documented in Bhutan, there is a need for much research to document the undiscovered species (to science and Bhutan) and to understand species number and diversity [24] [21].

The study aims to study the threatened species of Bhutan listed in IUCN Red List from numerous published papers and books. There were many published paper on individual

Volume 10 Issue 2, February 2021

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ISSN: 2319-7064 SJIF (2019): 7.583

threatened species but a comprehensive full list of threatened species is not available. This paper also aims to list the new species discovered from Bhutan as we were not able to find any paper published after 2017 listing the new species to science.

2. Methods and Materials

The paper was prepared by going through the relevant published journal articles globally and nationally on checklist of IUCN Red List of Threatened Species available online. Google Scholar (www.scholar.google.com), (www.researchgate.net), Research Gate **JSTOR** (www.jstor.org), ProQuest (www.proquest.com), Nature (www.nature.com), Microsoft Academic (www.academic.microsoft.com), Directory of Open Access **Journals** (www.doaj.org), Science Direct (www.sciencedirect.com), South Asian Archive (www.southasiaarchive.com), Springer Link and Wiley Library (www.springer.com), Online (www.onlinelibrary.wiley.com) were used to search journal papers published since 2000. Distribution and occurrence extracted data of species from iNaturalist were (www.inaturalist.org), Bhutan **Biodiversity** Portal (www.biodiversity.bt), eBird (www.ebird.org) and IUCN Red List website (www.iucnredlist.org). The paper also lists those species that were discovered between 2017 and 2020 from Bhutan and were new to science in table 3. The data collected were interpreted using Microsoft Excel Spreadsheet and presented in a simple and informative way. The authors and organizations are cited well.

3. Results and Discussions

The IUCN Red List categorizes species under 9 categories based on specie's extinction risk[16]. The categories are Not Evaluated (NE), Data Deficient (DD), Least Concern (LC), Near Threatened (NT), Vulnerable (VU), Endangered (EN), Critically Endangered (CR), Extinct in the Wild (EW), and Extinct (EX)[16].

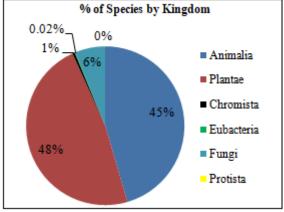


Figure 1: % of Species by Kingdom in Bhutan

Out of 1,438,769[18] species in world, Bhutan is home to around 11,248 species (Table 1 & Figure 1) [21]. 136 species are listed as globally threatened in the IUCN Red List of Threatened Species (Table 2 &Figure 2)[30]. Out of 136 threatened species found in Bhutan, 1 is Extinct, 1 is

Extinct in the Wild and 134 of them are listed as Threatened, Critically Endangered and Vulnerable (Table 4). 1. 21 percent of Bhutan's biological diversity is threatened.

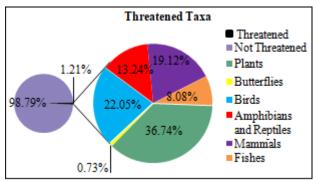


Figure 2: % of Threatened taxa in Bhutan

Bhutan recorded 23 new species to science between 2017 and 2020. Bhutan's biodiversity is rich and not fully documented. If intense research is done in Bhutan's biodiversity, several new species to science would be discovered. There are ample of potential opportunities to future researchers. *Spathogottisjetsuniae* [13], orchid discovered in 2017, was named in honour of Her Majesty AzhiJetsun PemaWangchuck, Queen of Bhutan and *Megalestesgyalsey* [15], dragonfly discovered in 2017, was named in honour of His Highness Gyalsey Jigme Namgyel Wangchuck, Crown Prince of Bhutan.

4. Conclusion

While collecting and reviewing the scholarly works, we found out that there were not many papers published regarding checklist of IUCN Red List of Threatened Species and discovery of new species since 2017. The rate of consumption of natural resources, waste generation, economic development, illegal poaching and hunting possess threat to the survival of critically endangered species. Forest and Nature Conservation Act of Bhutan 1995 and Forest and Nature Conservation Rules and Regulations of Bhutan 2017 protect around 62 species, which are already listed as globally threatened under IUCN Red List of Threatened Species. Insufficient data poses major drawback to the management and conservation efforts. The paper also presents the list of new species that were discovered from Bhutan since 2017. More research need to be conducted to discover new species from Bhutan's rich and lush forest.

5. Recommendation

Bhutan is rich in biological diversity as news of new species discovered from Bhutan is shown every now and then. Many of the species are not yet discovered and documented in Bhutan, there is a need for much researches to be documented in the undiscovered species list (to science and Bhutan) and to understand species number and diversity. The younger generation interested in environment, biodiversity and research need to be taught the importance of species for our survival and encourage them to do more research basedin Bhutan. Our only hope is in younger minds and future generation. The incomplete data possess threats to species and hinders the conservation efforts.

Volume 10 Issue 2, February 2021

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SJIF (2019): 7.583

6. Competing Interests

The authors declared that no conflict of interest exists in this work.

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Volume 10 Issue 2, February 2021

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Paper ID: SR21217104713 DOI: 10.21275/SR21217104713 1642

ISSN: 2319-7064 SJIF (2019): 7.583

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Table 1: Species Diversity of World and Bhutan

Kingdom	World	Bhutan	Bhutan %
Plantae	224,244	5,369	2.40
Animalia	1,124.516	5,114	0.46
Fungi	44,368	690	1.56
Chromista	17,892	55	0.31
Eubacteria	11,010	18	0.16
Protista	16,236	2	0.01
Archaebacteria	503	0	0
Total	1,438,769	11,248	0.78 %

Table 2: Threatened percentage of Biodiversity in Bhutan

Order	Bhutan	Threatened	Threatened %
Plants	5,369	50	0.93
Butterflies	759	1	0.13
Birds	752	30	4.98
Amphibians and Reptiles	158	18	11.39
Mammals	129	26	20.15
Fishes	125	11	8.80
Total biodiversity	11,248	136	1.20 %

Table 3: New Species discovered in Bhutan (new to science) (2017-2020)

	Table 3: New Species discovered in Brutan (new to science) (2017-2020)			
Sl.No.	Groups	Species	Author (s)	
1		Parachiloglanisdrukyulensis	D. B. Gurung & R. J. Thoni [10]	2018
2		Parachiloglanisbenjii	glanisbenjii D. B. Gurung & R. J. Thoni [10]	
3	Fishes	Parachiloglanisdangmechhuensis		2018
4	Exostomamang dechhuensis		D. B. Gurung & R. J. Thoni [10]	2018
5			D. B. Gurung & R. J. Thoni [10]	2018
6		Bulbophyllumtrongsaense	P. Gyeltshen, D. B. Gurung & P. Kumar [14]	2020
7		Chiloschistahimalaica	N. Gyeltshen, C. Gyeltshen, K. Tobgay, S. Dalstrom, D. B. Gurung, N. Gyeltshen	2020
			& B. B. Ghalley [12]	
8		Chiloschistagelephuense	N. Gyeltshen, C. Gyeltshen, K. Tobgay, S. Dalstrom, D. B. Gurung, N. Gyeltshen	2020
U			& B. B. Ghalley [12]	
9	Plants	Chiloschistadensiflora	N. Gyeltshen, C. Gyeltshen, K. Tobgay, S. Dalstrom, D. B. Gurung, N. Gyeltshen	2020
			& B. B. Ghalley [12]	
10		Roscoeamegalantha	T. Yoshida, R. Yangzom & M. F. Newman [32]	2017
11		Meconopsisgakyidiana	T. Yoshida, R. Yangzom & D. Long [31]	2017
12	Meconopsismerakensis T. Yoshida, R. Yangzom & D. Long [31]		2017	
13		Spathogottisjetsuniae N. Gyeltshen, K. Tobgyel & T. Dalstrom [13]		2017
14		Erhaiapelkiae	E. Gittenberger, P. Leda, J. Wangchuk, C. Gyeltshen & B. Stelbrink	
15	5 Erhaiajannei E. Gittenberger, P. Leda, J. Wangchuk, C. Gyeltshen & B. Stelbrink [9]		E. Gittenberger, P. Leda, J. Wangchuk, C. Gyeltshen & B. Stelbrink [9]	2020
16		Endothyrellabhutanensis	E. Gittenberger, P. Leda, S. Sherub & B. P. Gergely [8]	2018
17	Snails	Endothyrellaspirostriata	E. Gittenberger, P. Leda, S. Sherub & B. P. Gergely [8]	2018
18	Endothyrellapemagatshel E. Gittenberger, P. Leda, S. Sherub & B. P. Gergely [8]		2018	
19			E. Gittenberger, P. Leda & S. Sherub [7]	2017
20		Rahulatrongsaensis	E. Gittenberger, P. Leda & S. Sherub [7]	2017
21	Trueflies	Eumerusdruk	J. Smith, T. Zeegers& P. Dorji [27]	
22	Dragonflies	Megalestesgyalsey	T. Gyeltshen, V. J. Kalkman & A. G. Orr [15]	2017
23	Beetles	Trilophidiusgemmatus	M. Balkenohl [2]	2017

Table 4: List of IUCN Red List of Threatened Species in Bhutan

Sl. No.	Common Name	Biological Name	Status	
	Mammals			
1	Chinese Pangolin	Manispentadactyla	Critically Endangered	
2	Pygmy Hog	Sussalvanius	Critically Endangered	
3	Dhole	Cuonalpinus	Endangered	
4	Bengal Tiger	Pantheratigristigris	Endangered	
5	Snow Leopard	Pantherauncia	Vulnerable	
6	Clouded Leopard	Neofelisnebulosa	Vulnerable	

Volume 10 Issue 2, February 2021

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ISSN: 2319-7064 SJIF (2019): 7.583

7	Common Leopard	Pantherapardus	Vulnerable
8	Golden Langur	Trachypithecusgeei	Endangered
9	Capped Langur	Trachypithecusgileatus Trachypithecuspileatus	Vulnerable
10	Asian Small-clawed Otter	Anoxcinereus	Vulnerable
11	Smooth-coated Otter	Lutrogaleperspicillata	Vulnerable
12	Bearcat / Binturong	Arctictis binturong	Vulnerable
13	Asiatic Black Bear	Ursusthibetanus	Vulnerable
14	Indian Rhinoceros	Rhinoceros unicornis	Vulnerable
15	Asian Elephant	Elephasmaximus	Endangered
16	Himalayan Musk Deer	Moschusleucogaster	Endangered
17	Alpine Musk Deer	Moschuschrysogaster Moschuschrysogaster	Endangered
18	Bhutan Takin	Budorcastaxicolorwhitei	Vulnerable
19	Sambar	Rusa unicolor	Vulnerable
20	Gaur	Bosgaurus	Vulnerable
21	Red Panda	Ailurusfulgens	Endangered
22	Bengal Slow Loris	Nycticebusbengalensis	Vulnerable
23	Hog Deer	Axis porcinus	Endangered
24	Wild Water Buffalo	Bubalusarnee	Endangered
25	Arunachal Macaque	Macacamunzala	Endangered
26	Hispid Hare	Caprolagushispidus	Endangered
		Butterfly	
27	Ludlow's Bhutan Swallowtail	Bhutanitisludlowi	Vulnerable
		Fishes	,
28	Walking Catfish	Clariasmagur	Endangered
29		Devarioassamensis	Vulnerable
30	Loach	Aborichthysgaroensis	Vulnerable
31		Pterocryptisbarakensis	Endangered
32	Golden Mahseer	Tor putitora	Endangered
33		Pseudecheneissirenica	Vulnerable
34	Common Snow Trout	Schizothoraxrichardsonii	Vulnerable
35		Schisturainglisi	Vulnerable
36	Assamese Kingfish	Cyprinuscarpio	Vulnerable
37	Mrigal Carp	Cirrhinuscirrhosus	Vulnerable
-		<i>a</i> : :	
38	European Carp	Cyprinuscarpio	Vulnerable
38		Cyprinuscarpio Amphibians and Reptiles	Vulnerable
38			Vulnerable Vulnerable
		Amphibians and Reptiles	
39	Indian Peacock Softshell Turtle	Amphibians and Reptiles Nilssoniahurum	Vulnerable
39 40	Indian Peacock Softshell Turtle Nankiang Horned Toad	Amphibians and Reptiles Nilssoniahurum Xenophrysnankiangensis	Vulnerable Vulnerable
39 40 41	Indian Peacock Softshell Turtle Nankiang Horned Toad Gharial	Amphibians and Reptiles Nilssoniahurum Xenophrysnankiangensis Gavialisgangeticus	Vulnerable Vulnerable Critically Endangered
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39 40 41 42 43 44 45 46 47 48	Indian Peacock Softshell Turtle Nankiang Horned Toad Gharial Three-striped Roofed Turtle Indian Roofed Turtle Southeast Asian Box Turtle Elongata Tortoise Crowned River Turtle Keeled Box Turtle Spotted Pond Turtle	Amphibians and Reptiles Nilssoniahurum Xenophrysnankiangensis Gavialisgangeticus Kachungadhongoko Kachugakachuga Cuoraamboinensis Indotestudoelongata Hardellathurjii Cuoramouhotii Geoclemyshamiltonii	Vulnerable Vulnerable Critically Endangered Endangered Critically Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable
39 40 41 42 43 44 45 46 47 48	Indian Peacock Softshell Turtle Nankiang Horned Toad Gharial Three-striped Roofed Turtle Indian Roofed Turtle Southeast Asian Box Turtle Elongata Tortoise Crowned River Turtle Keeled Box Turtle Spotted Pond Turtle Assam Roofed Turtle	Amphibians and Reptiles Nilssoniahurum Xenophrysnankiangensis Gavialisgangeticus Kachungadhongoko Kachugakachuga Cuoraamboinensis Indotestudoelongata Hardellathurjii Cuoramouhotii Geoclemyshamiltonii Pangshurasylhetensis	Vulnerable Vulnerable Critically Endangered Endangered Critically Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Endangered Findangered Vulnerable Endangered Endangered
39 40 41 42 43 44 45 46 47 48 49 50	Indian Peacock Softshell Turtle Nankiang Horned Toad Gharial Three-striped Roofed Turtle Indian Roofed Turtle Southeast Asian Box Turtle Elongata Tortoise Crowned River Turtle Keeled Box Turtle Spotted Pond Turtle Assam Roofed Turtle Burmese Python	Amphibians and Reptiles Nilssoniahurum Xenophrysnankiangensis Gavialisgangeticus Kachungadhongoko Kachugakachuga Cuoraamboinensis Indotestudoelongata Hardellathurjii Cuoramouhotii Geoclemyshamiltonii Pangshurasylhetensis Python bivittatus	Vulnerable Vulnerable Critically Endangered Endangered Critically Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable
39 40 41 42 43 44 45 46 47 48 49 50 51	Indian Peacock Softshell Turtle Nankiang Horned Toad Gharial Three-striped Roofed Turtle Indian Roofed Turtle Southeast Asian Box Turtle Elongata Tortoise Crowned River Turtle Keeled Box Turtle Spotted Pond Turtle Assam Roofed Turtle Burmese Python Narrow-headed Softshell Turtle	Amphibians and Reptiles Nilssoniahurum Xenophrysnankiangensis Gavialisgangeticus Kachungadhongoko Kachugakachuga Cuoraamboinensis Indotestudoelongata Hardellathurjii Cuoramouhotii Geoclemyshamiltonii Pangshurasylhetensis Python bivittatus Chitraindica	Vulnerable Vulnerable Critically Endangered Endangered Critically Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Endangered Findangered Vulnerable Endangered Vulnerable Endangered
39 40 41 42 43 44 45 46 47 48 49 50 51	Indian Peacock Softshell Turtle Nankiang Horned Toad Gharial Three-striped Roofed Turtle Indian Roofed Turtle Southeast Asian Box Turtle Elongata Tortoise Crowned River Turtle Keeled Box Turtle Spotted Pond Turtle Assam Roofed Turtle Burmese Python Narrow-headed Softshell Turtle King Cobra	Amphibians and Reptiles Nilssoniahurum Xenophrysnankiangensis Gavialisgangeticus Kachungadhongoko Kachugakachuga Cuoraamboinensis Indotestudoelongata Hardellathurjii Cuoramouhotii Geoclemyshamiltonii Pangshurasylhetensis Python bivittatus Chitraindica Ophiophagushannah	Vulnerable Vulnerable Critically Endangered Endangered Critically Endangered Vulnerable
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	Indian Peacock Softshell Turtle Nankiang Horned Toad Gharial Three-striped Roofed Turtle Indian Roofed Turtle Southeast Asian Box Turtle Elongata Tortoise Crowned River Turtle Keeled Box Turtle Spotted Pond Turtle Assam Roofed Turtle Burmese Python Narrow-headed Softshell Turtle King Cobra Asian Rock Python	Amphibians and Reptiles Nilssoniahurum Xenophrysnankiangensis Gavialisgangeticus Kachungadhongoko Kachugakachuga Cuoraamboinensis Indotestudoelongata Hardellathurjii Cuoramouhotii Geoclemyshamiltonii Pangshurasylhetensis Python bivittatus Chitraindica Ophiophagushannah Python molurus	Vulnerable Vulnerable Critically Endangered Endangered Critically Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Vulnerable Endangered Vulnerable Vulnerable Vulnerable
39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	Indian Peacock Softshell Turtle Nankiang Horned Toad Gharial Three-striped Roofed Turtle Indian Roofed Turtle Southeast Asian Box Turtle Elongata Tortoise Crowned River Turtle Keeled Box Turtle Spotted Pond Turtle Assam Roofed Turtle Burmese Python Narrow-headed Softshell Turtle King Cobra Asian Rock Python Indian Eyed Turtle	Amphibians and Reptiles Nilssoniahurum Xenophrysnankiangensis Gavialisgangeticus Kachungadhongoko Kachungadhongoko Cuoraamboinensis Indotestudoelongata Hardellathurjii Cuoramouhotii Geoclemyshamiltonii Pangshurasylhetensis Python bivittatus Chitraindica Ophiophagushannah Python molurus Moreniapetersi	Vulnerable Vulnerable Critically Endangered Endangered Critically Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Vulnerable Vulnerable Vulnerable Vulnerable Vulnerable Vulnerable Vulnerable
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39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	Indian Peacock Softshell Turtle Nankiang Horned Toad Gharial Three-striped Roofed Turtle Indian Roofed Turtle Southeast Asian Box Turtle Elongata Tortoise Crowned River Turtle Keeled Box Turtle Spotted Pond Turtle Assam Roofed Turtle Burmese Python Narrow-headed Softshell Turtle King Cobra Asian Rock Python Indian Eyed Turtle Walnut Kukri Snake Tricarinate Hill Turtle Kashmir Flycatcher Black-necked Crane Blyth's Tragopan Red-headed Vulture Steppe Eagle Rustic Bunting White-rumped Vulture	Amphibians and Reptiles Nilssoniahurum Xenophrysnankiangensis Gavialisgangeticus Kachungadhongoko Kachugakachuga Cuoraamboinensis Indotestudoelongata Hardellathurjii Cuoramouhotii Geoclemyshamiltonii Pangshurasylhetensis Python bivittatus Chitraindica Ophiophagushannah Python molurus Moreniapetersi Oligodonjuglandifer Melanochelystricarinata Birds Ficedulasubrubra Grusnigricolis Tragopanblythii Sarcogypscalvus Aquila nipalensis Emberizarustica Gyps bengalensis	Vulnerable Vulnerable Critically Endangered Endangered Critically Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Endangered Vulnerable Critically Endangered Endangered Vulnerable Critically Endangered
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Volume 10 Issue 2, February 2021

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Paper ID: SR21217104713 DOI: 10.21275/SR21217104713

ISSN: 2319-7064 SJIF (2019): 7.583

70 71 72 73 74 75 76	Beautiful Nuthatch Wood Snipe Indian Spotted Eagle Hodgson's Bushchat Lesser Adjutant	Sittaformosa Gallinagonemoricola Clangahastata Saxicolainsignis	Vulnerable Vulnerable Vulnerable Vulnerable
72 73 74 75	Indian Spotted Eagle Hodgson's Bushchat	Clangaĥastata	Vulnerable
73 74 75	Hodgson's Bushchat	U	
74 75			i Viilnerable
75		Leptoptilosjavanicus	Vulnerable
	Great Hornbill	Bucerosbicornis	Vulnerable
, ,	Rufous-necked Hornbill	Acerosnipalensis	Vulnerable
77	Long-tailed Duck	Clangulahyemalis	Vulnerable
78	Wreathed Hornbill	Rhyticerosundulatus	Vulnerable
79	Woolly-necked Stork	Ciconiaepiscopus	Vulnerable
80	Grey-sided Thrush	Turdusfeae	Vulnerable
81	Greater Spotted Eagle	Clangaclanga	Vulnerable
82	Chestnut-breasted Partridge	Arborophilamandellii	Vulnerable
83	Dark-rumped Swift	Apusacuticauda	Vulnerable
84	Eastern Imperial Eagle	Aquila heliaca	Vulnerable
85	Grey-crowned Prinia	Priniacinereocapilla	Vulnerable
86	Great Slaty Woodpecker	Mulleripicuspulverulentus	Vulnerable
- 00	Great Staty Woodpeeker	Plants	v unicrabic
87	Bhutanese Blue Poppy	Meconopsisbhutanica	Critically Endangered
88		Sorbuslingshiensis	Critically Endangered
89	The Striped Petal	Eulophiastenopetala	Extinct
90		Bulleyiayunnanensis	Endangered
91	Sargent Spruce	Piceabrachytyla	Vulnerable
92		Ilex venulosa	Endangered
93		Meconopsissuperba	Endangered
94		Carexnigradrukyulensis	Endangered
95	Mangalore Aglaia	Aglaiaperviridis	Vulnerable
96	Heart-shaped Slipper Orchid	Cypripedium cordigerum	Vulnerable
97	White Angel Trumpet	Brugmansiasuaveolens	Extinct in the Wild
98	winte Anger Trumpet	Ophiorrhizalongii	Critically Endangered
98		Bistortagriersonii	Endangered Endangered
100	Jatamansi		
100		Nardostachysjatamansi	Critically Endangered Endangered
101	A A E	Androsacehemisphaerica	
	Agarwood, Aloeswood, Eaglewood	Aquilariamalaccensis	Critically Endangered
103		Onosmagriersonii	Critically Endangered
104		Astragalusparoensis	Critically Endangered
105	Crown Wand Orchid	Paphiopedilumfairrieanum	Critically Endangered
106		Bambusaclavata	Vulnerable
107		Saxifragavacillans	Vulnerable
108	Himalayan Slipper Orchid	Cypripedium himalaicum	Endangered
109		Pedicularissanguilimbata	Endangered
110	Montrey Cypress	Cupressusmacrocarpa	Vulnerable
111		Strobilanthesaccrescens	Endangered
112		Hypericumsherriffii	Endangered
113		Cymbopogonbhutanicus	Vulnerable
114	Fern Tree, Blue Jacaranda, Black Poui	Jacaranda mimosifolia	Vulnerable
115	Spicer's Slipper Orchid	Paphiopedilumspicerianum	Endangered
116	Himalayan Yew	Taxuswallichiana	Endangered
117		Rhododendron dalhousiae var. rhabdotum	Vulnerable
118		Illiciumgriffithii	Endangered
119		Ceropegiabhutanica	Endangered
120		Buddlejabhutanica	Vulnerable
121		Pedicularisgriniformis	Vulnerable
122		Sorbusrinzenii	Endangered
123		Corallodiscuscooperi	Vulnerable
124	Leopard Spotted Bulbophyllum	Bulbophyllumleopardinum var. tuberculatum	Critically Endangered
125	Adder's Mouth	Malaxismuscifera	Vulnerable
126		Cheirostylissherriffii	Critically Endangered
127		Neopicrorhiza minima	Endangered
100	PanduaGogan	Saurauiapunduana	Critically Endangered
128	Assam Cycas	Cycaspectinata	Vulnerable
129	 	Ceropegiadorjei	Critically Endangered
129 130			
129 130 131	 Wax Plant	Hoya bhutanica	Endangered
129 130 131 132		Hoya bhutanica Oreorchissanguinea	Endangered Critically Endangered
129 130 131 132 133	Wax Plant	Hoya bhutanica Oreorchissanguinea Isodonatroruber	Endangered Critically Endangered Endangered
129 130 131 132	Wax Plant	Hoya bhutanica Oreorchissanguinea	Endangered Critically Endangered

Volume 10 Issue 2, February 2021

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Paper ID: SR21217104713 DOI: 10.21275/SR21217104713

International Journal of Science and Research (IJSR)

ISSN: 2319-7064 SJIF (2019): 7.583

136 Charming	Slipper Orchid	Paphiopedilumvenustum	Endangered
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Volume 10 Issue 2, February 2021 www.ijsr.net

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