



Supplementary Material

Avian Diversity around Indus River with Collision Prone Species Abundance at Proposed 765 KV Transmission Line

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Supplementary Table S1. Species observed in the study area.

Sr. No.	Scientific name	English name	No. of individuals	IUCN status*	WS (cm)	Body length
1	<i>Accipiter badius</i>	Shikra	21	LC	60-70	29-32
2	<i>Accipiter gentilis</i>	Northern goshawk	1	LC	125-140	40-50
3	<i>Accipiter nisus</i>	Eurasian sparrowhawk	95	LC	55-70	28-38
4	<i>Acridotheres fuscus</i>	Jungle myna	36	LC	11.8-13	24
5	<i>Acridotheres ginginianus</i>	Bank myna	82	LC	11.9-12.5	22.8
6	<i>Acridotheres tristis</i>	Common myna	2,566	LC	14-15.1	25
7	<i>Acrocephalus concinens</i>	Blunt-winged Warbler	14	LC	5.2-5.8	13
8	<i>Acrocephalus dumetorum</i>	Blyth's reed warbler	29	LC	5.9-6.6	14
9	<i>Actitis hypoleucos</i>	Common sandpiper	299	LC	38-41	19-21
10	<i>Aegithalos concinnus</i>	Black-throated Tit	53	LC	4.8-5.2	11
11	<i>Aegithalos leucogenys</i>	White-cheeked Tit	28	LC	5.5	13
12	<i>Aegithalos niveogularis</i>	White-throated Tit	115	LC	6.4	10
13	<i>Aegypius monachus</i>	Cinereous vulture	4	NT	250-295	100-110
14	<i>Alauda arvensis</i>	Eurasian skylark	106	LC	11.4-11.6	16.8-20
15	<i>Alauda gulgula</i>	Oriental skylark	28	LC	8.5-10	16-16.5
16	<i>Alcedo atthis</i>	Common kingfisher	22	LC	6.9-7.7	18
17	<i>Alectoris chukar</i>	Chukar	143	LC	50-54	34-39
18	<i>Amandava amandava</i>	Red avadavat	4	LC	49 cm	10.16
19	<i>Amaurornis phoenicurus</i>	White breasted waterhen	13	LC	45-54	32

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Sr. No.	Scientific name	English name	No. of individuals	IUCN status*	WS (cm)	Body length
20	<i>Anas acuta</i>	Northern pintail	169	LC	80-95	51-66
21	<i>Hieraaetus fasciatus</i>	Bonelli's eagle	1	LC	150-180	65-72
22	<i>Anas clypeata</i>	Shoveler	71	LC	70-84	44-52
23	<i>Anas crecca</i>	Common teal	230	LC	58-64	34-38
24	<i>Anas penelope</i>	Wigeon	13	LC	75-86	45-51
25	<i>Anas platyrhynchos</i>	Mallard duck	759	LC	81-98	50-65
26	<i>Anas strepera</i>	Gadwall	72	LC	84-95	46-56
27	<i>Anser anser</i>	Graylag goose	80	LC	152-180	80-90
28	<i>Anser indicus</i>	Bar-headed goose	380	LC	150-165	70-78
29	<i>Anthropoides virgo</i>	Demoiselle crane	14	LC	165-185	50-53
30	<i>Anthus spinoletta</i>	Water pipit	17	LC	8.5-9.5	15-16.5
31	<i>Anthus campestris</i>	Tawny pipit	17	LC	8.5-9.5	15-16
32	<i>Anthus cervinus</i>	Red-throated pipit	67	LC	7.8-9	13.9-15
33	<i>Anthus roseatus</i>	Rosy pipit	7	LC	7.8-8.9	15-16
34	<i>Anthus rufulus</i>	Paddy field pipit	66	LC	7.5-8.6	15
35	<i>Anthus similis</i>	Long billed pipit	33	LC	9.4-10.5	20-23
36	<i>Apus affinis</i>	Little swift	34	LC	34-35	12-15
37	<i>Apus apus</i>	Common swift	42	LC	40-42	17
38	<i>Aquila chrysaetos</i>	Golden eagle	47	LC	204-220	75-88
39	<i>Aquila nipalensis</i>	Steppe eagle	82	EN	174-260	65-77
40	<i>Ardea alba</i>	Great egret	8	LC	131-170	80 – 100 cm
41	<i>Ardea cinerea</i>	Grey heron	36	LC	175-195	90-98
42	<i>Ardea intermedia</i>	Intermediate egret	117	LC	105-115	56-72
43	<i>Aythya ferina</i>	Common pochard	188	VU	74-89	42-58
44	<i>Aythya fuligula</i>	Tufted duck	120	LC	67-73	40-47
45	<i>Aythya nyroca</i>	Ferruginous duck	9	NT	63-67	38-42
46	<i>Buteo buteo</i>	Common buzzard	18	LC	102-120	51-55
47	<i>Buteo rufinus</i>	Long-legged buzzard	2	LC	126-143	50-65
48	<i>Calandrella acutirostris</i>	Hume's lark	26	LC	8.4-9.6	15
49	<i>Calandrella brachydactyla</i>	Greater short-toed lark	34	LC	9.1-9.8	15-16.5
50	<i>Calidris ferruginea</i>	Curlew sandpiper	77	NT	42-46	18-19
51	<i>Calidris minuta</i>	Little stint	32	LC	34-37	12.1-14.1
52	<i>Caprimulgus europaeus</i>	Eurasian nightjar	8	LC	57-64	25-27
53	<i>Carduelis carduelis</i>	European goldfinch	102	LC	7.6-8.1	14
54	<i>Carpodacus erythrinus</i>	Common rosefinch	11	LC	8.3-8.6	14.5
55	<i>Carpodacus rubicilla</i>	Great rosefinch	5	LC	11.6-12.2	20-21
56	<i>Cercomela fusca</i>	Brown rock chat	41	LC	8.4-9.5	16.5-17
57	<i>Certhia familiaris</i>	Eurasian tree creeper	7	LC	6.3-6.6	13.2
58	<i>Certhia himalayana</i>	Bar-tailed tree creeper	144	LC	6.5-7.1	14
59	<i>Ceryle rudis</i>	Pied kingfisher	36	LC	13.3-14.2	25-29
60	<i>Charadrius dubius</i>	Little ringed plover	2	LC	42-48	14.2-15.2

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Sr. No.	Scientific name	English name	No. of individuals	IUCN status*	WS (cm)	Body length
61	<i>Charadrius hiaticula</i>	Common ringed plover	6	LC	35-41	17-19.5
62	<i>Charadrius leschenaultii</i>	Greater sand-plover	1	LC	12.8-14	22-25
63	<i>Charadrius mongolus</i>	Lesser sand-plover	13	LC	45-48	19-20
64	<i>Chettusia gregaria</i>	Sociable plover	12	CR	70-76	27-30
65	<i>Chlidonias leucopterus</i>	White-winged tern	24	LC	58-67	23-27
66	<i>Chroicocephalus genei</i>	Slender-billed gull	25	LC	90-102	37-40
67	<i>Chroicocephalus ridibundus</i>	Black headed gull	2,097	LC	91-106	34-37
68	<i>Chrysomma sinense</i>	Yellow-eyed babbler	3	LC	6.5-7	17-18
69	<i>Ciconia nigra</i>	Black stork	9	LC	145-155	95-100
70	<i>Cinclus cinclus</i>	White-throated dipper	399	LC	8.1-10	19-20
71	<i>Cinclus pallasii</i>	Brown dipper	468	LC	9.1-10	18-20
72	<i>Cinnyris asiaticus</i>	Purple sunbird	2	LC	5.5-5.7	10
73	<i>Circus aeruginosus</i>	Marsh harrier	8	LC	115-130	48-56
74	<i>Circus cyaneus</i>	Hen harrier	65	LC	100-120	44-52
75	<i>Columba livia</i>	Rock pigeon	215	LC	78-84	33
76	<i>Copsychus saularis</i>	Oriental magpie-robin	2	LC	9.1-10.6	17-20
77	<i>Coracias benghalensis</i>	Indian roller	118	LC	17.7-20	31-35
78	<i>Coracias garrulus</i>	European roller	63	LC	18-21	31
79	<i>Coracina melaschistos</i>	Black winged cuckoo shrike	3	LC	11.4-12.8	22-23
80	<i>Corvus corax</i>	Raven	134	NT	41.9-48.3	46-59
81	<i>Corvus corone</i>	Carrion crow	2,234	LC	33-35	50-54
82	<i>Corvus frugilegus</i>	Rook	16	LC	15.6-17.1	42
83	<i>Corvus macrorhynchos</i>	Large billed crow	1,862	LC	29-36.8	43-50
84	<i>Corvus splendens</i>	House crow	1,046	LC	76-85	41-43
85	<i>Coturnix coturnix</i>	Common quail	5	LC	32-35	16-20
86	<i>Delichon dasypus</i>	Asian house martin	112	LC	10.4-11.3	12.5-15
87	<i>Delichon urbicum</i>	Common house-martin	26	LC	10.4-11.3	12.5-15
88	<i>Dendrocitta vagabunda</i>	Rufous treepie	25	LC	33-36	46-50
89	<i>Dendrocopos auriceps</i>	Brown-fronted woodpecker	7	LC	10.5-13	19-20
90	<i>Dendrocopos himalayensis</i>	Himalayan woodpecker	50	LC	12.3-13.6	23-35
91	<i>Dicrurus leucophaeus</i>	Ashy drongo	23	LC	12.4-14.5	25-26
92	<i>Dicrurus macrocercus</i>	Black drongo	232	LC	12.8-15.6	30
93	<i>Egretta garzetta</i>	Little egret	34	LC	88-95	55-65
94	<i>Elanus caeruleus</i>	Black-shouldered kite	1	LC	75-87	31-35
95	<i>Emberiza cia</i>	Rock bunting	489	LC	7.8-8.7	16-18
96	<i>Enicurus scouleri</i>	Little forktail	273	LC	7.2-7.9	12-13.3
97	<i>Falco subbuteo</i>	Eurasian hobby	55	LC	82-92	30-36
98	<i>Falco tinnunculus</i>	Common kestrel	16	LC	71-80	32-35
99	<i>Ficedula superciliaris</i>	Ultramarine flycatcher	49	LC	6.1-6.4	11
100	<i>Fulica atra</i>	Eurasian coot	18	LC	70-80	36-38
101	<i>Galerida cristata</i>	Crested lark	983	LC	10.3-10.6	17-18

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Sr. No.	Scientific name	English name	No. of individuals	IUCN status*	WS (cm)	Body length
102	<i>Gallinago gallinago</i>	Common snipe	17	LC	44-47	25-27
103	<i>Gallinula chloropus</i>	Moorhen/ waterhen	118	LC	45-53	30-33
104	<i>Gelochelidon nilotica</i>	Gull-billed tern	113	LC	86-102	35-42
105	<i>Glaucidium brodiei</i>	Collared owlet	10	LC	9-10.1	16-17
106	<i>Glaucidium cuculoides</i>	Asian-barred owlet	10	LC	14.5-16.2	22-23
107	<i>Gyps himalayensis</i>	Himalayan griffon	89	NT	261-306.3	115-125
108	<i>Halcyon smyrnensis</i>	White throated kingfisher	31	LC	11.8-13.1	25-28
109	<i>Hieraaetus pennatus</i>	Booted eagle	14	LC	100-121	45-53
110	<i>Himantopus himantopus</i>	Black-winged stilt	24	LC	67-83	35-40
111	<i>Hirundo rustica</i>	Barn swallow	420	LC	11.6-13	18-20
112	<i>Hirundo smithii</i>	Wire-tailed swallow	188	LC	11.3-11.5	12.7-14
113	<i>Hodgsonius phoenicuroides</i>	White-bellied redstart	12	LC	7.2-7.7	18-19
114	<i>Hydrophasianus chirugus</i>	Pheasant-tailed jacana	4	LC	18.2-24.2	44-47
115	<i>Lanius collurio</i>	Red-backed shrike	9	LC	9-9.7	17
116	<i>Lanius schach</i>	Long-tailed shrike	134	LC	9.1-9.7	24-26
117	<i>Larus brunnicephalus</i>	Brown-headed gull	368	LC	110-120	42-46
118	<i>Larus canus</i>	Mew gull	68	LC	114-126	40 – 46
119	<i>Leucosticte nemoricola</i>	Plain mountain finch	18	LC	9.5-10.1	18
120	<i>Lophophorus impejanus</i>	Monal pheasant	1	LC	100-110	68-73
121	<i>Loxia curvirostra</i>	Red crossbill	20	LC	8.9-9.1	16-18.5
122	<i>Ixobrychus minutus</i>	Little bittern	3	LC	40-45	28-36
123	<i>Melophus lathamii</i>	Crested bunting	15	LC	7.9-8.8	16-16.5
124	<i>Mergus merganser</i>	Goosander	7	LC	82-97	58-66
125	<i>Merops apiaster</i>	European bee-eater	47	LC	14.5-16	27
126	<i>Merops orientalis</i>	Green bee-eater	27	LC	8.9-9.9	21-23
127	<i>Milvus migrans</i>	Black kite	118	LC	160-180	55-60
128	<i>Monticola cinclorhynchus</i>	Blue-capped rock thrush	297	LC	9.6-10.4	17-18
129	<i>Monticola solitarius</i>	Blue rock thrush	46	LC	11.6-12.7	20-23
130	<i>Motacilla alba</i>	White wagtail	1,039	LC	8.3-9.8	18-19
131	<i>Motacilla cinerea</i>	Grey wagtail	1,040	LC	28	17
132	<i>Motacilla citreola</i>	Citrine wagtail	58	LC	7.7-8.8	16-17.75
133	<i>Motacilla flava</i>	Yellow wagtail	360	LC	7.5-8.8	17-18
134	<i>Motacilla maderaspatensis</i>	White-browed wagtail	139	LC	9.5-10.7	21-24
135	<i>Myiarchus crinitus</i>	Great crested flycatcher	21	LC	33	22.2
136	<i>Myophonus caeruleus</i>	Blue whistling thrush	741	LC	16.8-19.2	30-33
137	<i>Numenius arquata</i>	Eurasian curlew	11	NT	80-100	50-60
138	<i>Nycticorax nycticorax</i>	Black-crowned night heron	32	LC	105-112	58-65
139	<i>Oenanthe albonigra</i>	Hume's wheatear	283	LC	26–27	14.5
140	<i>Oenanthe picata</i>	Variable wheatear	325	LC	8.6-9.8	16.5-17
141	<i>Oenanthe pleschanka</i>	Pied wheatear	55	LC	26–32	14.5–15.5
142	<i>Oriolus oriolus</i>	Eurasian golden oriole	5	LC	13.5-14.7	23-26

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Sr. No.	Scientific name	English name	No. of individuals	IUCN status*	WS (cm)	Body length
143	<i>Orthotomus sutorius</i>	Common tailor bird	17	LC	4.3-5.4	10 to 14
144	<i>Parus major</i>	Great tit	92	LC	7.2-7.4	14
145	<i>Parus rufonuchalis</i>	Rufous-naped tit	39	LC	7.3-7.7	13
146	<i>Passer domesticus</i>	House sparrow	701	LC	7-8.1	13-15.5
147	<i>Passer hispaniolensis</i>	Spanish sparrow	285	LC	7.3-8.7	14.5-16
148	<i>Passer montanus</i>	Eurasian tree sparrow	445	LC	21	12 – 14
149	<i>Passer rutilans</i>	Russet sparrow	8	LC	6.8-8.2	13.4-15
150	<i>Pastor roseus</i>	Rosy starling	23	LC	12.4-13.5	22.8-24
151	<i>Pericroco tusroseus</i>	Rosy minivet	10	LC	8.3-9.2	18
152	<i>Pericrocotus ethologus</i>	Long-tailed minivet	8	LC	8.6-9.6	18-20
153	<i>Periparus melanolophus</i>	Black crested tit	109	LC	6.2-6.5	12.5-14
154	<i>Phalacrocorax carbo</i>	Great cormorant	3,647	LC	130-150	80-90
155	<i>Philomachus pugnax</i>	Ruff	7	LC	54-58	26-30
156	<i>Phoenicurus fuliginosus</i>	Plumbeous water redstart	849	LC	7.2-8.3	12.1-14
157	<i>Phoenicurus leucocephalus</i>	White-capped water redstart	778	LC	8.5-10.2	19
158	<i>Phoenicurus ochruros</i>	Black redstart	164	LC	7.9-8.8	14.5-15.5
159	<i>Phylloscopus collybita</i>	Common chiffchaff	119	LC	6-6.6	10
160	<i>Phylloscopus griseolus</i>	Sulphur-bellied warbler	2	LC	5.1-5.5	10
161	<i>Phylloscopus humei</i>	Hume's warbler	18	LC	5.5-5.8	10
162	<i>Phylloscopus sindianus</i>	Mountain chiffchaff	27	LC	5.6-6	11.2-11.9
163	<i>Phylloscopus subviridis</i>	Brook's leaf warbler	70	LC	5.1-5.9	10
164	<i>Phylloscopus trochiloides</i>	Greenish warbler	121	LC	5.9-6.5	10.2-13
165	<i>Pica pica</i>	Eurasian magpie	46	LC	18.2-22.7	30
166	<i>Podiceps cristatus</i>	Great crested grebe	14	LC	85-90	46-51
167	<i>Porzana parva</i>	Little crane	9	LC	34-39	18-20
168	<i>Porzana porzana</i>	Spotted crane	19	LC	37-42	22-24
169	<i>Porzana pusilla</i>	Baillon's crane	6	LC	33-37	17-19
170	<i>Prinia hodgsonii</i>	Grey breasted prinia	15	LC	4.1-5.1	11-13.1
171	<i>Prunella collaris</i>	Alpine accentor	12	LC	9.2-10.5	15.5-17
172	<i>Psittacula krameri</i>	Rose-ringed parakeet	26	LC	15.6-17.1	42
173	<i>Pteruthius xanthochlorus</i>	Green shrike-babbler	3	LC	6.2-6.5	12.5-13
174	<i>Ptyonoprogne rupestris</i>	Eurasian crag martin	7	LC	12-13.4	14-15.2
175	<i>Pucrasia macrolopha</i>	Koklass pheasant	2	LC	55-70	58-64
176	<i>Pycnonotus cafer</i>	Red vented bulbul	1,731	LC	8.5-9.5	20-23
177	<i>Pycnonotus leucogenys</i>	Himalayan bulbul	1,762	LC	8-9.3	20-22
178	<i>Rallus aquaticus</i>	Water rail	39	LC	38-45	23-28
179	<i>Rhipidura aureola</i>	White-browed fantail	92	LC	7.3-8.9	17-18
180	<i>Saxicola caprata</i>	Pied bushchat	83	LC	7-7.7	12.5-13
181	<i>Saxicola ferreus</i>	Grey bushchat	39	LC	6.4-6.9	15-15.25
182	<i>Saxicola torquata</i>	Common stonechat	44	LC	6.5-7.3	12.5-13
183	<i>Saxicoloides fulicata</i>	Indian robin	11	LC	6.9-8.0	16-19

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Sr. No.	Scientific name	English name	No. of individuals	IUCN status*	WS (cm)	Body length
184	<i>Seicercus whistleri</i>	Whistler's warbler	4	LC	8.9-9.7	11.0-12.0
185	<i>Serinus pusillus</i>	Red fronted serin	4	LC	6.9-7.9	12.1-13
186	<i>Sterna aurantia</i>	River tern	69	NT	80-85	38-46
187	<i>Sterna capsica</i>	Caspian tern	69	LC	127-140	50-59
188	<i>Sterna hirundo</i>	Common tern	65	LC	79-84	32-40
189	<i>Streptopelia chinensis</i>	Spotted dove	24	LC	43- 48	28- 32
190	<i>Streptopelia decaocto</i>	Eurasian collared dove	82	LC	47-55	30-32
191	<i>Streptopelia senegalensis</i>	Laughing dove	204	LC	12.9-13.5	26-27
192	<i>Sturnia pagodarum</i>	Brahminy starling	373	LC	9.9-11.2	20
193	<i>Sturnus vulgaris</i>	Common starling	229	LC	10.8-13.5	19-20
194	<i>Sylvia curruca</i>	Lesser whitethroat	189	LC	5.8-6.5	13
195	<i>Tachymarptis melba</i>	Alpine swift	354	LC	45-60	22
196	<i>Tadorna ferruginea</i>	Ruddy shelduck	21	LC	121-145	61-67
197	<i>Terpsiphone paradisi</i>	Indian paradise-flycatcher	66	LC	8.9-9.9	20-22
198	<i>Tichodroma muraria</i>	Wall creeper	134	LC	9.4-10.2	16-18
199	<i>Tragopan melanocephalus</i>	Western tragopan	1	VU	24.5-28.5	69-74
200	<i>Tringa erythropus</i>	Spotted red shank	15	LC	61-71	29-31
201	<i>Tringa nebularia</i>	Green shank	11	LC	68-70	33 cm
202	<i>Tringa ochropus</i>	Green sand piper	14	LC	57-61	21-24
203	<i>Tringa stagnatilis</i>	Marsh sandpiper	46	LC	55-59	22-26
204	<i>Tringa totanus</i>	Red shank	10	LC	59-66	27-29
205	<i>Trochalopteron lineatum</i>	Streaked laughing thrush	250	LC	7.4-7.7	20-21
206	<i>Troglodytes hiemalis</i>	Winter wren	3	LC	4.7-5.3	9-9.5
207	<i>Turdus merula</i>	Eurasian blackbird	4	LC	14.4-16.1	27-28
208	<i>Turdus rubrocanus</i>	Chestnut thrush	76	LC	13.2-14.4	27-28
209	<i>Turdus ruficollis</i>	Red-throated thrush	8	LC	12.5-14.3	24-27
210	<i>Turdus unicolor</i>	Tickell's thrush	6	LC	11.5-13	21-25
211	<i>Turnix tanki</i>	Yellow-legged buttonquail	14	LC	7.9-8.9	15
212	<i>Upupa epops</i>	Common hoopoe	64	LC	13.6-16	29-31
213	<i>Urocissa flavirostris</i>	Yellow-billed blue magpie	134	LC	17.8-19	63-65
214	<i>Vanellus indicus</i>	Red-wattled lapwing	445	LC	80-81	32-35
215	<i>Zosterops palpebrosus</i>	Oriental white eye	9	LC	5-5.7	10.1-12

*LC, least concern; NT, near threatened; VU, vulnerable; EN, endangered; CR, critically endangered