

Avifauna Diversity of Yashwantrao Chavan College Campus Halkarni and its Vicinity

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Maharashtra is a home ground about 600 bird species representing several migratory birds consisting exotic, endangered and endemic birds. Recently, Pachlore and Chandrashekar (2011) recorded 97 birds from Amarawati. Narwade and Fartade (2011) reported 165 birds from Osmanabad. Prasad (2003) listed 450 birds from Western Maharashtra. Since, there is no published report on avifauna diversity and their migratory status in Chandgad taluk of Kolhapur district, we made efforts to prepare avifauna checklist and their migratory status in Yashwantrao Chavan college campus Halkarni (15°54'30" N, 74°17'46" E) and its vicinity in Chandgad taluk. Study area is located around 734m asl, witness 3000 to 5000 mm/ year rainfall and temperature ranging from 14 to 36° C representing Acacia (*Acacia longifolia*) plantation and Grass (*Cymbopogon gidarba* and *Cymbopogon martini*) land with several trees representing Mango (*Mangifera indica*), Tamarind (*Tamarindus indica*), Margosa (*Azadirachta indica*), Coconut (*Cocos nucifera*), Bamboo (*Bambusa vulgaris*), Ficus (*Ficus benghalensis* and *Ficus racemosa*), Ashok (*Polyalthia longifolia*) etc. Study area also traversed by small streams joining Tamrapani River and several temporary and permanent water bodies.

Study area was explored to document avifauna diversity travelling on two wheeler and on foot in different parts of the study area. Birds were sighted by using pair of binoculars between 7.00 to 11.00 am and 4.00 to 6.30 pm. Observations were made on every 15 days for the period of 24 months from August 2011 to July 2013. In few places we applied line transact, point count and opportunistic sighting methods to record avifauna. Birds were identified using field guides by Kazmierczak (2000) and Grimmett *et al.* (2011). Migratory status of birds was categorized in to resident (found around the year), local migratory (showing local movements), winter visitor (sighted during winter only), summer visitor (sighted during summer only) and rare (recorded once or twice only).

We recorded a total of 105 bird species representing 19 orders, 50 families and 83 genera (Table 1). Passeriformes alone represents 48 bird species (Image 1) followed by Ciconiiformes (11). Rest of the orders with number of bird species sighted are Falconiformes and Charadriiformes (6); Coraciiformes (5); Galliformes, Columbiformes and Cuculiformes (4); Pelicaniformes (3); Psittaciformes, Apodiformes, Bucerotiformes and Piciformes (2); Anseriformes, Podicipediformes, Gruiformes, Strigiformes, Caprimulgiformes and Upupiformies (each 1).

Among the families Motacillidae consist maximum

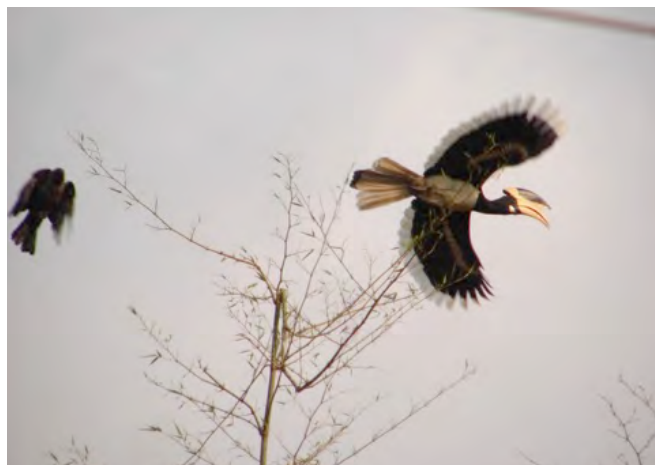


Fig 1. Malabar Pied Hornbill *Anthracoceros coronatus*

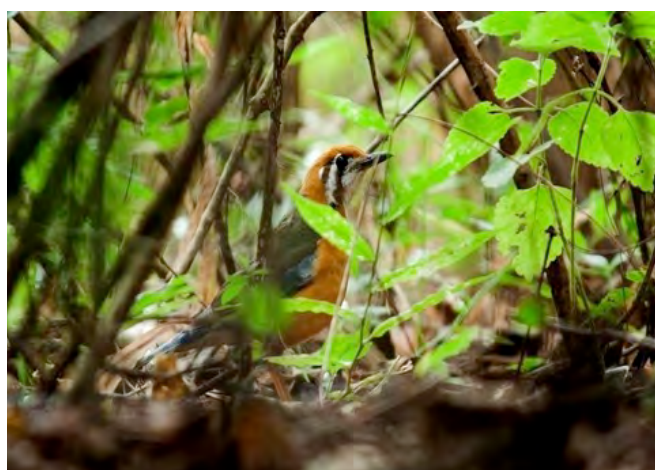


Fig 2. White Throated Thrush *Zoothera citrina cyanotus*



Fig 3. Jungle babbler *Turdoides striata somervillei*

number (8) of birds followed by Ardeidae (6). Other families represent the bird species are Phasianidae, Accipitridae, Scolopacidae, Columbidae, Cuculidae

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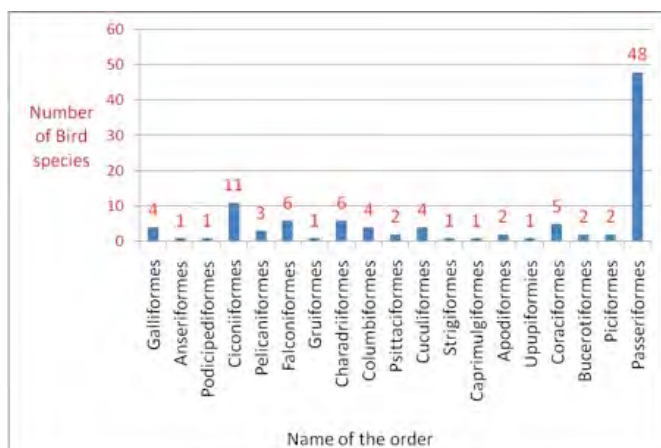


Image 1. Showing order wise number of bird species recorded in Yashwantrao Chavan college campus Halkarni and its vicinity

and Nectariniidae (4); Threskiornithidae, Pycnonotidae, Timaliidae, Turdidae, Muscicapidae (3); Ciconiidae, Phalacrocoracidae, Falconidae, Charadriidae, Psittacidae, Bucerotidae, Ramphastidae, Laniidae, Corvidae, Paridae,

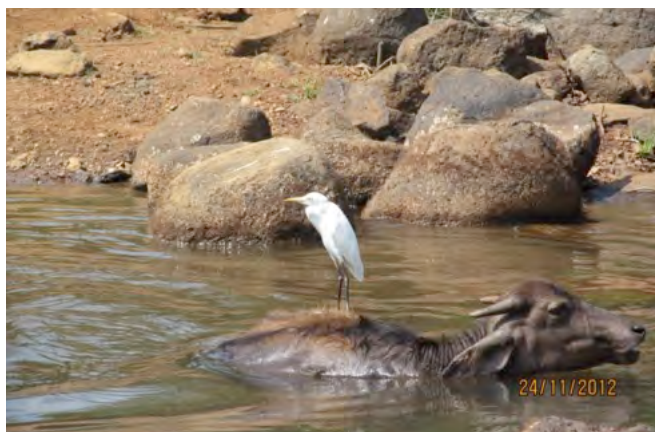


Fig 4. Great Egret *Casmerodius albus*

Hirundinidae, Cistcolidae, Sturnidae, Irenidae and Estrildidae (2). Rest of the families represent one species each (Table 2). We also identified the sub species of Jungle Babbler (*Turdoides striata*



Fig 5. Common Hoopoe *Upupa epops*

somervillei), Orange-headed Thrush (*Zoothera citrina cyanotus*), White Wagtail (*Motacilla alba leucopsis* and *Motacilla alba dukhunensis*) and Red-whiskered Bulbul (*Pycnonotus jocosus fuscicaudatus* and *Pycnonotus jocosus emeria*). Figures 1-9 shows Malabar pied hornbill *Anthracoceros coronatus*, White

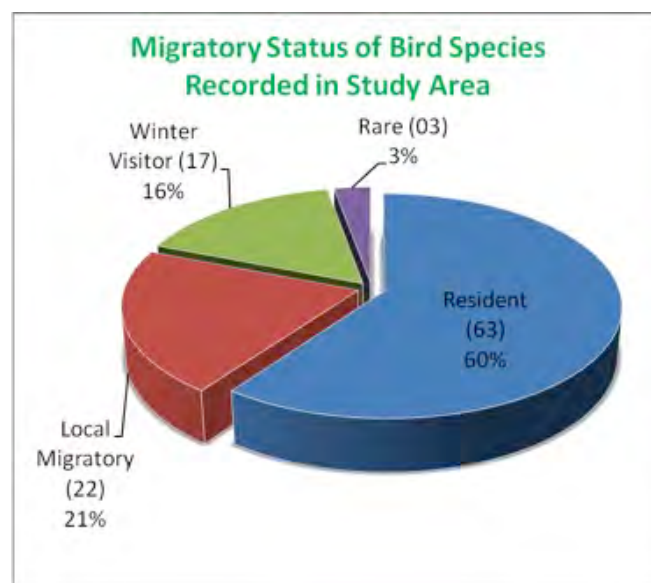


Image 2. Showing migratory status of bird species recorded in Yashwantrao Chavan College Campus Halkarni and its vicinity

throated thrush *Zoothera citrina cyanotus*, Jungle babbler *Turdoides striata somervillei*, Great Egret *Casmerodius albus*, Common Hoopoe *Upupa epops*, Brahminy Kite *Haliastur indus*, Long-tailed Shrike *Lanius schach*, Malabar Whistling Thrush *Myophonus*

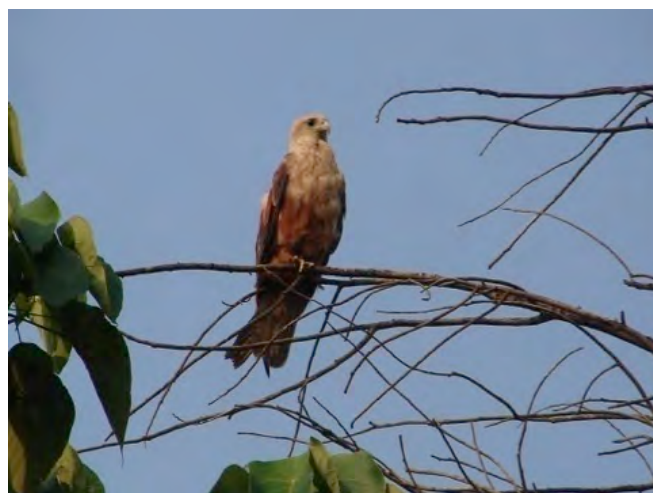


Fig 6. Brahminy Kite *Haliastur indus*

horsfieldii and Black drongo *Dicrurus macrocercus* (juvenile) respectively recorded in the study area.

Among the birds recorded 60% (63) were resident, 21% (22) were local migratory, 16% (17) were winter visitor and 3% (3) were rare (Image 2). Black-headed Ibis *Threskiornis melanocephalus*, Darter *Anhinga melanogaster* and Malabar Pied

Table 1. Showing checklist of avifauna recorded in Yashwantrao Chavan College Campus Halkarni and its vicinity

Sl. No.	Order/Family	Common Name	Scientific Name	Status	
				Migratory	IUCN
Order Galliformes					
1	Phasianidae	Grey Junglefowl	<i>Gallus sonneratii</i>	LM	LC
2		Indian Peafowl	<i>Pavo cristatus</i>	LM	LC
3		Jungle Bush Quail	<i>Perdica asiatica</i>	R	LC
4		Rock Bush Quail	<i>Perdica argoondah</i>	R	LC
Order Anseriformes					
5	Anatidae	Indian Spot-billed Duck	<i>Anas poecilorhyncha</i>	R	LC
Order Podicipediformes					
6	Podicipedidae	Little Grebe	<i>Tachybaptus ruficollis</i>	R	LC
Order Ciconiiformes					
7	Ciconiidae	Woolly-necked Stork	<i>Ciconia episcopus</i>	R	LC
8		Asian Openbill	<i>Anastomus oscitans</i>	WV	LC
9	Threskiornithidae	Red-naped Ibis	<i>Pseudibis papillosa</i>	LM	LC
10		Black-headed Ibis	<i>Threskiornis melanocephalus</i>	LM	NT
11		Eurasian Spoonbill	<i>Platalea leucorodia</i>	LM	LC
12	Ardeidae	Indian Pond Heron	<i>Ardeola grayii</i>	R	LC
13		Cattle Egret	<i>Bubulcus ibis</i>	R	LC
14		Intermediate Egret	<i>Mesophoyx intermedia</i>	R	LC
15		Great Egret	<i>Casmerodius albus</i>	R	LC
16		Little Egret	<i>Egretta garzetta</i>	WV	LC
17		Purple Heron	<i>Ardea purpurea</i>	R	LC
Order Pelicaniformes					
18	Anhingidae	Darter	<i>Anhinga melanogaster</i>	WV	NT
19	Phalacrocoracidae	Little Cormorant	<i>Phalacrocorax niger</i>	WV	LC
20		Great Cormorant	<i>Phalacrocorax carbo</i>	WV	LC
Order Falconiformes					
21	Falconidae	Common Kestrel	<i>Falco tinnunculus</i>	WV	LC
22		Peregrine Falcon	<i>Falco peregrinus</i>	R	LC
23	Accipitridae	Brahminy Kite	<i>Haliastur indus</i>	R	LC
24		Black Kite	<i>Milvus migrans</i>	R	LC
25		Black-winged Kite	<i>Elanus caeruleus</i>	R	LC
26		Shikra	<i>Accipiter badius</i>	R	LC
Order Gruiformes					
27	Rallidae	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	R	LC
Order Charadriiformes					
28	Charadriidae	Red-wattled Lapwing	<i>Vanellus indicus</i>	R	LC
29		Little Ringed Plover	<i>Charadrius dubius</i>	LM	LC
30	Scolopacidae	Common Sandpiper	<i>Actitis hypoleucos</i>	WV	LC
31		Wood Sandpiper	<i>Tringa glareola</i>	WV	LC
32		Green Snadpiper	<i>Tringa ochropus</i>	WV	LC
33		Common Snipe	<i>Gallinago gallinago</i>	WV	LC
Order Columbiformes					
34	Columbidae	Common Pigeon	<i>Columba livia</i>	R	LC
35		Laughing Dove	<i>Stigmatopelia senegalensis</i>	LM	LC
36		Spotted Dove	<i>Stigmatopelia chinensis</i>	R	LC
37		Red Collared Dove	<i>Streptopelia tranquebarica</i>	LM	LC
Order Psittaciformes					
38	Psittacidae	Rose-ringed Parakeet	<i>Psittacula krameri</i>	R	LC
39		Plum -headed Parakeet	<i>Psittacula cyanocephala</i>	R	LC
Order Cuculiformes					
40	Cuculidae	Asian Koel	<i>Eudynamys scolopaceus</i>	R	LC
41		Southern Coucal	<i>Centropus parroti</i>	R	ANA
42		Common Hawk Cuckoo	<i>Hierococcyx varius</i>	R	ANA
43		Grey-bellied Cuckoo	<i>Cacomantis passerinus</i>	R	LC

Sl. No.	Order /Family	Common Name	Scientific Name	Status	
				Migratory	IUCN
Order Strigiformes					
44	Strigidae	Eurasian Eagle Owl	<i>Bubo bubo</i>	R	LC
Order Caprimulgiformes					
45	Caprimulgidae	Indian Nightjar	<i>Caprimulgus asiaticus</i>	WV	LC
Order Apodiformes					
46	Apodidae	Asian Palm Swift	<i>Cypsiurus balasiensis</i>	R	LC
47	Hemiprocnidae	Indian Swiftlet	<i>Collocalia unicolor</i>	R	LC
Order Upupiformes					
48	Upupidae	Common Hoopoe	<i>Upupa epops</i>	R	LC
Order Coraciformes					
49	Coraciidae	Indian Roller	<i>Coracias benghalensis</i>	LM	LC
50	Alcedinidae	Common Kingfisher	<i>Alcedo atthis</i>	R	LC
51	Halcyonidae	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	R	LC
52	Cerylidae	Pied Kingfisher	<i>Ceryle rudis</i>	LM	LC
53	Meropidae	Green Bee-eater	<i>Merops orientalis</i>	R	LC
Order Bucerotiformes					
54	Bucerotidae	Indian Grey Hornbill	<i>Ocyrceros birostris</i>	LM	LC
55		Malabar Pied Hornbill	<i>Anthracoceros coronatus</i>	LM	NT
Order Piciformes					
56	Ramphastidae	White-cheeked Barbet	<i>Megalaima viridis</i>	R	LC
57		Coppersmith Barbet	<i>Megalaima haemacephala</i>	R	LC
Order Passeriformes					
58	Aegithinidae	Common Iora	<i>Aegithina tiphia</i>	R	LC
59	Laniidae	Common Woodshrike	<i>Tephrodornis pondicerianus</i>	R	LC
60		Long -tailed Shrike	<i>Lanius schach</i>	R	LC
61	Dicruridae	Black Drongo	<i>Dicrurus macrocercus</i>	R	LC
62	Monarchidae	Asian Paradise-flycatcher	<i>Terpsiphone paradisi</i>	LM	LC
63	Corvidae	House Crow	<i>Corvus splendens</i>	R	LC
64		Indian Jungle Crow	<i>Corvus culminatus</i>	R	LC
65	Paridae	Great Tit	<i>Parus major</i>	R	LC
66		Indian Yellow Tit	<i>Parus aplonotus</i>	LM	LC
67	Hirundinidae	Red-rumped Swallow	<i>Cecropis daurica</i>	R	LC
68		Wire-tailed Swallow	<i>Hirundo smithii</i>	LM	LC
69	Alaudidae	Oriental Skylark	<i>Alauda gulgula</i>	R	LC
70	Pycnonotidae	Red-vented Bulbul	<i>Pycnonotus cafer</i>	R	LC
71		Red-whiskered Bulbul	<i>Pycnonotus jocosus fuscicaudatus</i>	R	LC
72		Red-whiskered Bulbul	<i>Pycnonotus jocosus emeria</i>	R	LC
73	Cistcolidae	Ashy Prinia	<i>Prinia socialis</i>	R	LC
74		Grey-breasted Prinia	<i>Prinia hodgsonii</i>	R	LC
75	Sylviidae	Common Tailorbird	<i>Orthotomus sutorius</i>	LM	LC
76	Timaliidae	Yellow-eyed Babbler	<i>Chrysomma sinense</i>	R	LC
77		Jungle Babbler	<i>Turdoides striata somervillei</i>	R	LC
78		Rufous Babbler	<i>Turdoides subrufa</i>	R	LC
79	Zosteropidae	Oriental White-eye	<i>Zosterops palpebrosus</i>	R	LC
80	Sturnidae	Brahminy Starling	<i>Sturnia pagodarum</i>	LM	LC
81		Common Myna	<i>Acridotheres tristis</i>	R	LC
82	Turdidae	Orange-headed (White throated) Thrush	<i>Zoothera citrina cyanotus</i>	R	LC
83		Malabar Whistling Thrush	<i>Myophonus horsfieldii</i>	R	LC
84		Blue Rock Thrush	<i>Monticola solitarius</i>	R	LC
85	Muscicapidae	Oriental Magpie Robin	<i>Copsychus saularis</i>	R	LC
86		Indian Robin	<i>Saxicoloides fulicatus</i>	R	LC
87		Pied Bushchat	<i>Saxicola caprata</i>	R	LC
88	Irenidae	Golden-fronted Leafbird	<i>Chloropsis aurifrons</i>	LM	LC
89		Jerdon’s Leafbird	<i>Chloropsis jerdoni</i>	LM	LC

Sl. No.	Order/Family	Common Name	Scientific Name	Status	
				Migratory	IUCN
90	Dicaeidae	Thick -billed Flowerpecker	<i>Dicaeum agile</i>	R	LC
91	Nectariniidae	Purple-rumped Sunbird	<i>Leptocoma zeylonica</i>	R	LC
92		Crimson-backed Sunbird	<i>Leptocoma minima</i>	R	ANA
93		Purple Sunbird	<i>Cinnyris asiaticus</i>	R	LC
94		Little Spiderhunter	<i>Arachnothera longirostra</i>	R	LC
95	Passeridae	House Sparrow	<i>Passer domesticus</i>	R	LC
96	Estrildidae	Red Avadavat	<i>Amandava amandava</i>	LM	LC
97		Scaly-breasted Munia	<i>Lonchura punctulata</i>	LM	LC
98	Motacillidae	Grey Wagtail	<i>Motacilla cinerea</i>	WV	LC
99		White Wagtail	<i>Motacilla alba leucopsis</i>	WV	LC
100		White Wagtail	<i>Motacilla alba dukhunensis</i>	WV	LC
101		White-browed Wagtail	<i>Motacilla maderaspatensis</i>	LM	LC
102		Yellow Wagtail	<i>Motacilla flava</i>	WV	LC
103		Citrine Wagtail	<i>Motacilla citreola</i>	WV	LC
104		Paddyfield Pipit	<i>Anthus rufulus</i>	R	LC
105		Olive-backed Pipit	<i>Anthus hodgsoni</i>	WV	LC

R-Resident, LM-Local Migratory, WV-Winter visitor, SV-Summer visitor, R-Rare, V-Vulnerable, NT-Near Threatened, LC- Least concern, ANA - IUCN assessment for threatened category is not available

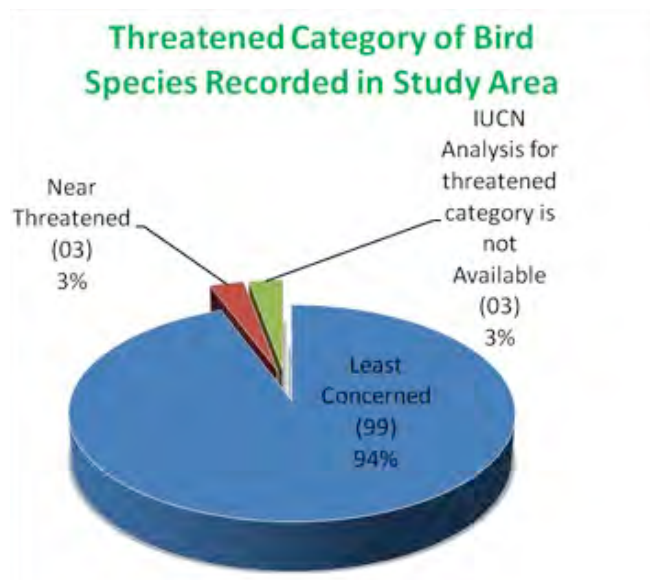


Image 3. Showing threatened category of bird species recorded in Yashwantrao Chavan College Campus Halkarni and its vicinity

Hornbill *Anthraceroceros coronatus* are near threatened (IUCN 2013). For Southern Coucal *Centropus parroti*, Common Hawk Cuckoo *Hierococcyx varius* and Crimson-backed Sunbird *Leptocoma minima* IUCN assessment for threatened category is not available. Rest (94%) of the birds is least concerned (Image 3). Present recording of 105 birds contribute 23% of the birds recorded from Western Maharashtra (Prasad, 2003), 108% of Osmanabad district (Narwade and Fartade, 2011) and 64% of wetlands of Amarawati (Pachlore and Chandrashekar, 2011).

Acknowledgements

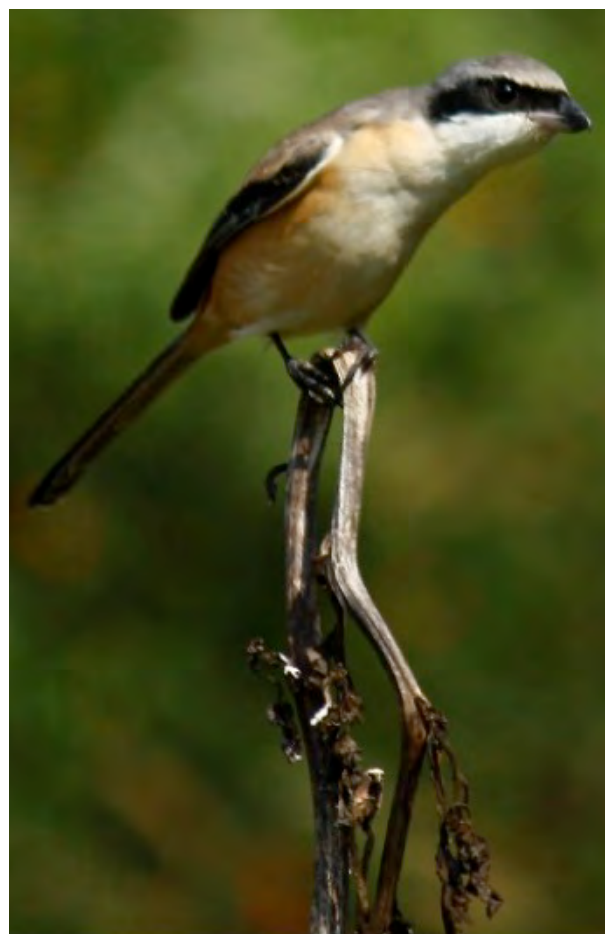


Fig 7. Long -tailed Shrike *Lanius schach*

Authors wish to thank the Principal, Yashwantrao Chavan College, Halkarni for providing facilities. This work is partially supported by UGC Grant No: 47-1729/10 (WRO).

References

Table 2. Showing family wise number of bird species recorded in Yashwantrao Chavan College Campus Halkarni and its vicinity

Sl. No.	Name of the Family	Number of bird species recorded
1	Phasianidae	4
2	Anatidae	1
3	Podicipedidae	1
4	Ciconiidae	2
5	Threskiornithidae	3
6	Ardeidae	6
7	Anhingidae	1
8	Phalacrocoracidae	2
9	Falconidae	2
10	Accipitridae	4
11	Rallidae	1
12	Charadriidae	2
13	Scolopacidae	4
14	Columbidae	4
15	Psittacidae	2
16	Cuculidae	4
17	Strigidae	1
18	Caprimulgidae	1
19	Apodidae	1
20	Hemiprocnidae	1
21	Upupidae	1
22	Coraciidae	1
23	Alcedinidae	1
24	Halcyonidae	1
25	Cerylidae	1
26	Meropidae	1

Sl. No.	Name of the Family	Number of bird species recorded
27	Bucerotidae	2
28	Ramphastidae	2
29	Aegithinidae	1
30	Laniidae	2
31	Dicruridae	1
32	Monarchidae	1
33	Corvidae	2
34	Paridae	2
35	Hirundinidae	2
36	Alaudidae	1
37	Pycnonotidae	3
38	Cistcolidae	2
39	Sylviidae	1
40	Timaliidae	3
41	Zosteropidae	1
42	Sturnidae	2
43	Turdidae	3
44	Muscicapidae	3
45	Irenidae	2
46	Dicaeidae	1
47	Nectariniidae	4
48	Passeridae	1
49	Estrildidae	2
50	Motacillidae	8
Total		108

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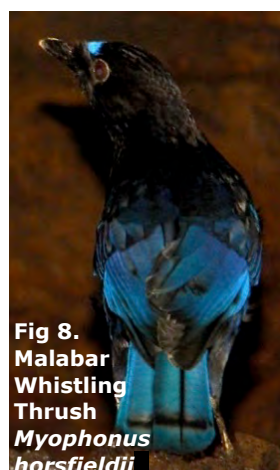


Fig 8.
Malabar
Whistling
Thrush
Myophonus
horsfieldii



Fig 9.
Black
Drongo
Dicrurus
macrocer
us
(Juvenile)