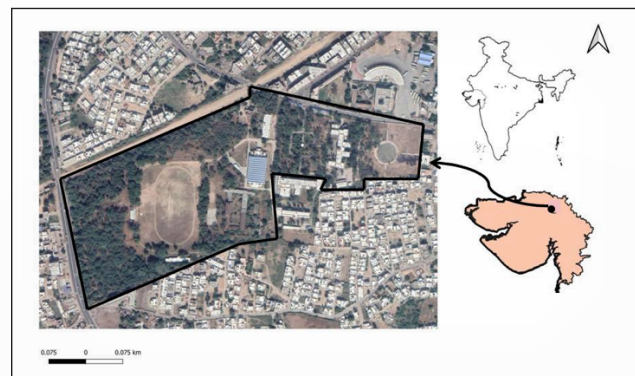


Avifaunal diversity of M.N. College, Visnagar, Gujarat

Visnagar is an urban area located in north Gujarat which falls in biogeographic zone 4 – the semi-arid area (Singh 2001). The climatic condition of this area is semi-arid with three distinct seasons: winter (November–February), summer (March–June), and monsoon (July–October). The lowest temperature in the winter remains around 14–17 °C, whereas it raises up to 44–46°C in summer. During July and August, an average rainfall of around 700–800mm/annum is recorded. Our study site M.N. College campus (23.69 °N, 72.53 °E) is located in central part of Visnagar City. The approximate area of the college campus covers 41.85 acres. Though it is a human-dominated area, the campus has a wide variety of different floral species like *Madhuca indica*, *Azadirachta indica*, *Prosopis juliflora*, *Ziziphus nummularia*, *Syzygium cumini*, *Ficus benghalensis*, *Caryota urens*, and *Saraca asoca*, which are used for nesting and feeding purposes by many bird species.

Data were collected during the period of 13 months from February 2019 to March 2020 covering all three seasons. Field data were collected in the morning (0800–1100 h) and evening (1600–1800 h). The data includes a total of 104 field visits with an average of eight field visits per month by walking and roaming in the campus. For the observation, we used binoculars (Celestron up-close G2 10×50, Olympus 10×50 S, Celestron up-

close G2 8×50). For the photographic record, we used DSLR cameras (Canon 1300d with canon 55–250 mm, Tamron 70–300 mm lens) and for bird identification, books and field guides (Grimmett et al. 2011; Ali 2002) were used. Birds sighted during the study period were categorized according to their status as residents (R) and migrant birds (M). All the birds were arranged according to the common name, scientific name, order, family, IUCN status, and migratory status. We recorded a total of 84 bird species from 41 families in the college campus during our study period. Our study found presence of 15% of total bird diversity of 235 bird species in Mehsana District (<https://birdsofgujarat.co.in/>). For species, family, and other other compositional analyses, see the Figures. The reason for such a huge diversity is the good vegetation in the campus. The campus protects old trees which may help Lesser Golden-backed Woodpecker to thrive here. The campus has a variety of flowering plants which attract birds like the Purple Sunbird .



Map of M. N. College, Visnagar (Gujarat), India

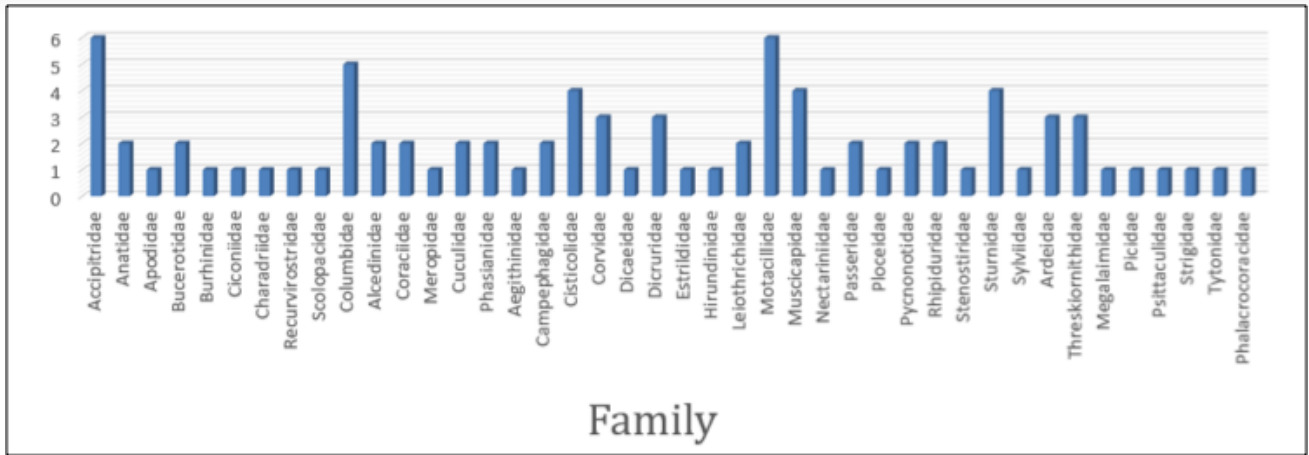


Figure 2. List of biHrd families of M.N. College, Visnagar.

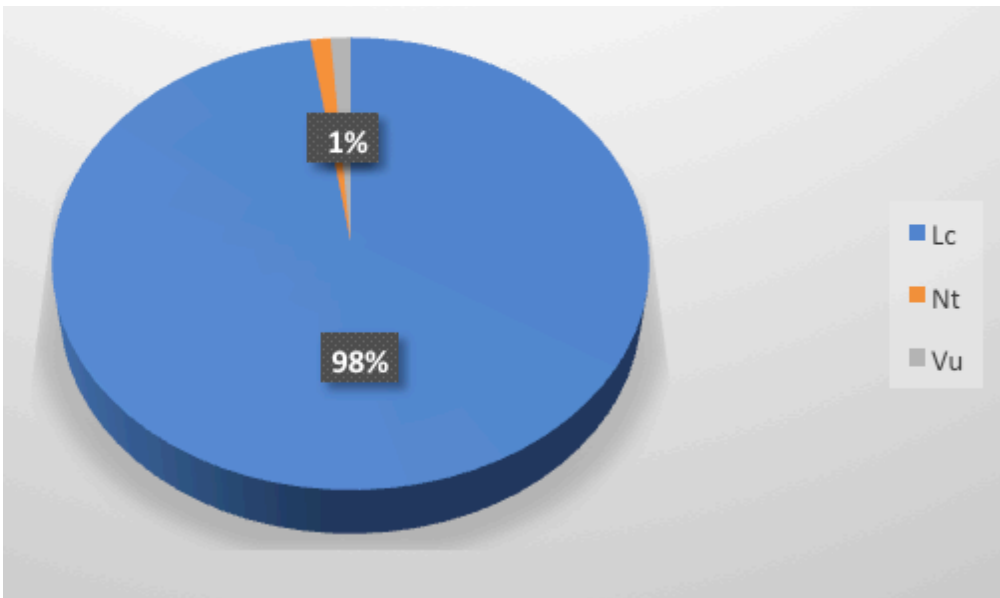


Figure 3. IUCN status of birds of M.N. College, Visnagar

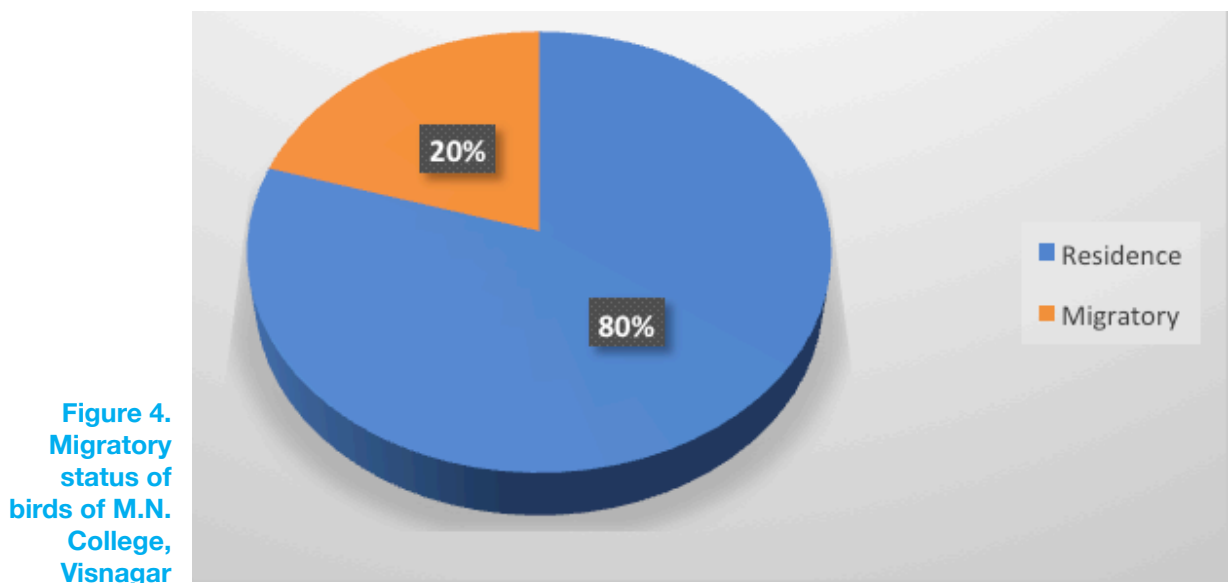


Figure 4. Migratory status of birds of M.N. College, Visnagar

Table 1. Checklist of birds found in M.N. College, Visnagar

Common Name	Scientific name	IUCN Red List status	Migratory status
Order: Accipitriformes			
Family: Accipitridae			
Black Kite	<i>Milvus migrans</i>	LC	R
Black-shouldered Kite	<i>Elanus axillaris</i>	LC	R
Common Buzzard	<i>Buteo buteo</i>	LC	M
Eurasian Marsh Harrier	<i>Circus aeruginosus</i>	LC	M
Oriental Honey-buzzard	<i>Pernis ptilorhynchus</i>	LC	M
Shikra	<i>Accipiter badius</i>	LC	R
Order: Anseriformes			
Family: Anatidae			
Knob-billed Duck	<i>Sarkidiornis melanotos</i>	LC	R
Indian Spot-billed Duck	<i>Anas poecilorhyncha</i>	LC	R
Order: Apodiformes			
Family: Apodidae			
Little Swift	<i>Apus affinis</i>	LC	R
Order: Bucerotiformes			
Family: Bucerotidae			
Indian Grey Hornbill	<i>Ocyrceros birostris</i>	LC	R
Eurasian Hoopoe	<i>Upupa epops</i>	LC	R
Order: Charadriiformes			
Family: Burhinidae			
Eurasian Thick Knee	<i>Burhinus oedicnemus</i>	LC	R
Order: Ciconiiformes			
Family: Ciconiidae			
Woolly-necked Stork	<i>Ciconia episcopus</i>	V	R
Family: Charadriidae			
Red-wattled Lapwing	<i>Vanellus indicus</i>	LC	R
Family: Recurvirostridae			
Black-winged Stilt	<i>Himantopus himantopus</i>	LC	R
Family: Scolopacidae			
Green Sandpiper	<i>Tringa ochropus</i>	LC	M
Order: Columbiformes			
Family: Columbidae			
Rock Pigeon	<i>Columba livia</i>	LC	R
Laughing Dove	<i>Streptopelia senegalensis</i>	LC	R
Eurasian Collared-Dove	<i>Streptopelia decaocto</i>	LC	R
Red Collared Dove	<i>Streptopelia tranquebarica</i>	LC	R
Yellow-footed Green-Pigeon	<i>Treron phoenicopterus</i>	LC	R

Common Name	Scientific name	IUCN Red List status	Migratory status
Order: Coraciiformes			
Family: Alcedinidae			
Common Kingfisher	<i>Alcedo atthis</i>	LC	R
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	LC	R
Family: Coraciidae			
European Roller	<i>Coracias garrulus</i>	LC	M
Indian Roller	<i>Coracias benghalensis</i>	LC	R
Family: Meropidae			
Green Bee-eater	<i>Merops orientalis</i>	LC	R
Order: Cuculiformes			
Family: Cuculidae			
Asian Koel	<i>Eudynamys scolopaceus</i>	LC	R
Greater Coucal	<i>Centropus sinensis</i>	LC	R
Order: Galliformes			
Family: Phasianidae			
Indian Peafowl	<i>Pavo cristatus</i>	LC	R
Gray Francolin	<i>Ortygornis pondicerianus</i>	LC	R
Order: Passeriformes			
Family: Aegithinidae			
Common Iora	<i>Aegithina tiphia</i>	LC	R
Family: Campephagidae			
Small Minivet	<i>Pericrocotus cinnamomeus</i>	LC	R
Large Cuckooshrike	<i>Coracina macei</i>	Lc	R
Family: Cisticolidae			
Common Tailorbird	<i>Orthotomus sutorius</i>	LC	R
Plain Prinia	<i>Prinia inornata</i>	LC	R
Ashy Prinia	<i>Prinia socialis</i>	LC	R
Grey-breasted Prinia	<i>Prinia hodgsonii</i>	LC	R
Family: Corvidae			
House Crow	<i>Corvus splendens</i>	LC	R
Indian Jungle Crow	<i>Corvus macrorhynchos</i>	LC	R
Rufous Treepie	<i>Dendrocitta vagabunda</i>	LC	R
Family: Dicaeidae			
Pale-billed Flowerpecker	<i>Dicaeum erythrorhynchos</i>	LC	M
Family: Dicruridae			
Black Drongo	<i>Dicrurus macrocercus</i>	LC	R
White-bellied Drongo	<i>Dicrurus caerulescens</i>	LC	R
Ashy Drongo	<i>Dicrurus leucophaeus</i>	LC	M
Family: Estrildidae			
Indian Silverbill	<i>Euodice malabarica</i>	LC	R
Family: Hirundinidae			
Dusky Crag Martin	<i>Ptyonoprogne concolor</i>	LC	R

Common Name	Scientific name	IUCN Red List status	Migratory status
Family: Leiothrichidae			
Jungle Babbler	<i>Turdoides striata</i>	LC	R
Large Grey Babbler	<i>Argya malcolmi</i>	LC	R
Family: Motacillidae			
Tree Pipit	<i>Anthus trivialis</i>	LC	M
Paddyfield Pipit	<i>Anthus rufulus</i>	LC	R
Yellow Wagtail	<i>Motacilla flava</i>	LC	M
Grey Wagtail	<i>Motacilla cinerea</i>	LC	M
White Wagtail	<i>Motacilla alba</i>	LC	M
Citrine Wagtail	<i>Motacilla citreola</i>	LC	M
Family: Muscicapidae			
Indian Robin	<i>Saxicoloides fulicatus</i>	LC	R
Oriental Magpie-Robin	<i>Copsychus saularis</i>	LC	R
Red-breasted Flycatcher	<i>Ficedula parva</i>	LC	M
Brown Rock Chat	<i>Oenanthe fusca</i>	LC	
Family: Nectariniidae			
Purple Sunbird	<i>Cinnyris asiaticus</i>	LC	R
Family: Passeridae			
House Sparrow	<i>Passer domesticus</i>	LC	R
Chestnut-shouldered Petronia	<i>Petronia xanthocollis</i>	LC	R
Family: Ploceidae			
Baya Weaver	<i>Ploceus philippinus</i>	LC	R
Family: Pycnonotidae			
Red-vented Bulbul	<i>Pycnonotus cafer</i>	LC	R
White-eared Bulbul	<i>Pycnonotus leucotis</i>	LC	R
Family: Rhipiduridae			
White-spotted Fantail	<i>Rhipidura albogularis</i>	LC	R
White-browed Fantail	<i>Rhipidura aureola</i>	LC	R
Family: Stenostiridae			
Grey-headed Canary-Flycatcher	<i>Culicicapa ceylonensis</i>	LC	M
Family: Sturnidae			
Common Myna	<i>Acridotheres tristis</i>	LC	R
Bank Myna	<i>Acridotheres ginginianus</i>	LC	R
Brahminy Starling	<i>Sturnia pagodarum</i>	LC	R
Rosy Starling	<i>Pastor roseus</i>	LC	M
Family: Sylviidae			
Lesser Whitethroat	<i>Curruca curruca</i>	LC	M
Order: Pelecaniformes			
Family: Ardeidae			
Indian Pond Heron	<i>Ardeola grayii</i>	LC	R
Cattle Egret	<i>Bubulcus ibis</i>	LC	R
Little Egret	<i>Egretta garzetta</i>	LC	R

Common Name	Scientific name	IUCN Red List status	Migratory status
Family: Threskiornithidae			
Red-naped Ibis	<i>Pseudibis papillosa</i>	LC	R
Black-headed Ibis	<i>Threskiornis melanocephalus</i>	NT	R
Glossy Ibis	<i>Plegadis falcinellus</i>	LC	M
Order: Piciformes			
Family: Megalaimidae			
Coppersmith Barbet	<i>Psilopogon haemacephalus</i>	LC	R
Family: Picidae			
Lesser Goldenbacked Woodpecker	<i>Dinopium benghalense</i>	LC	R
Order: Psittaciformes			
Family: Psittaculidae			
Rose-ringed Parakeet	<i>Psittacula krameri</i>	LC	R
Order: Strigiformes			
Family: Strigidae			
Spotted Owlet	<i>Athene brama</i>	LC	R
Family: Tytonidae			
Barn Owl	<i>Tyto alba</i>	LC	R
Order: Suliformes			
Family: Phalacrocoracidae			
Little Cormorant	<i>Microcarbo niger</i>	LC	R

LC—Least Concern | V—Vulnerable | NT—Near Threatened | R—Resident | M—Migrant

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Sarthak Chaudhary¹, Pavan Rana² & Pratik Desai³

^{1,2&3}Department of Life Sciences, HNG University, Patan, Gujarat 384265, India.

³WCB Research Foundation, #9, Panchvati Society, Deesa Road, Patan, Gujarat 384265, India.

³pratikdesai825@gmail.com (corresponding author).

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