



## AVIAN BIODIVERSITY AT SATPUDA BOTANICAL GARDEN, NAGPUR (M.S.): MILLENIUM URBANIZATION AND ASSOCIATED CONSERVATION MANAGEMENT PRACTICES

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### ABSTRACT

In Nagpur city multitude of gardens, parks either isolated ones and others attached to various water bodies sustain avifauna diversity of local endemic and seasonal migratory birds. These bird-sites can be designated as "Avian- corridors" due to many reasons as these habitats allow birds to move freely to nearby forest areas of city. Hence, in the present field survey 50 avian species were recorded at Satpuda- Botanical Garden, Nagpur. These birds were assigned to guilds based on food consumed by them.

**Keywords:** Satpuda garden, Birds, Corridor, Biodiversity, Food, Conservation ,Urbanization

### INTRODUCTION

A great amount of literature exists on avian diversity work globally. Whelan et.al., (2008) and Malwa et.al.,(2012) mentioned roles of birds like seed dispersal, pollution and control of pest in forest and agriobioscosystem; aves transfer matter and energy wherever they live (Lundberg and Moberg, 2003), restore by recolonising wastelands (Sekercioglu et.al., 2004; Sekercioglu 2006). Various field survey by avian researcher have reported 413 species in Vidarbha (M.S.). The present paper deals with biodiversity of birds in the Satpuda botanical garden and its surrounding areas, Vayusena-nagar road, Nagpur (M.S.).

### MATERIAL AND METHODS

From September 2018 to 2020 in morning and evening the Satpuda botanical garden and adjacent areas were visited mostly on holidays, Saturdays and Sundays to photograph birds, Canon EOS 1500 4DX Mark IV 30.4 Mp Digital SLR camera was used. Taxonomic classification and categorization of the observed avifauna was done using threaten scale into status based on IUCN Red list (Ali 1996; Grimmet and Inskipp, 2000).

**Observation Table:** Below are mentioned 50 species representing different families and belonging to granivorous, insectivorous, omnivorous, frugivorous, vermivorous, scavengers, and carnivorous, etc., Bird- guilds were recorded.

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Observation Table 1: Avifauna diversity at Satpuda botanical garden Nagpur.

S.No	Scientific Name	Family	Food	Distribution	IUCN Status
1	<i>Eudynamys scolopacea</i>	Cuculidae	Ins,Frv	RD	LC
2	<i>Cuculus canorus</i>	Cuculidae	Ins,Frv	MW	LC
3	<i>Dinopium benghalensis</i>	Picidae	Ins,Frv	RD	LC
4	<i>Columba livia</i>	Columbidae	Grv, Ins	RD	LC
5	<i>Amandava amandava</i>	Estrildidae	Frv,Grv	RD	LC
6	<i>Dendrocyta vagabunda</i>	Corvidae	Ins,Car	RD	LC
7	<i>Argya striata</i>	Leiothricidae	Ins,Car	RD	LC
8	<i>Ocyrceros birostris</i>	Bucerotidae	Ins,Frv	RD	LC



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