



Journal Homepage: -www.journalijar.com
**INTERNATIONAL JOURNAL OF
 ADVANCED RESEARCH (IJAR)**

Article DOI:10.21474/IJAR01/16025
 DOI URL: <http://dx.doi.org/10.21474/IJAR01/16025>



RESEARCH ARTICLE

AVIAN AND PLANT DIVERSITY AND THEIR INTER-RELATIONSHIP FROM TULJARAM CHATURCHAND COLLEGE CAMPUS, BARAMATI, DISTRICT PUNE (M.S.) INDIA

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Manuscript Info

Manuscript History

Received: 10 November 2022

Final Accepted: 14 December 2022

Published: January 2023

Key words:-

Avian Diversity, Plant Diversity,
 Tuljaram Chaturchand College,
 Baramati

Abstract

The Plant and bird diversity composition of Tuljaram Chaturchand College Campus was investigated to ascertain the ecological status. The study identified 740 plants. The plant species composition was dominated by major trees having 545 plants, followed by 178 shrubs, 12 herbs and 05 other grasses with parasitic plants. In relation with different plant species, the campus was found to attract 24 bird species. Asian Koel, Crows, Sparrows, Rock Pigeon, Red vented bulbul, Spotted owl, Green bee eater, Sun birds, Drongo, etc. they were dominantly found throughout the year. The college campus is very beautiful because of attraction of various birds and plants.

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Introduction:-

Ecological balance maintaining by plant and bird diversity also they are the indicator of health of the ecosystem. Bird diversity has a direct relationship with plant diversity. Plants provide a space to birds for nesting, feeding and breeding. Birds cannot tolerate even slight environmental disturbance because of their highly specific habitat requirements [1].

The birds are very sensitive to different human disturbances. Closer the human structures to bird habitats, fewer will be the abundance of different bird species [2]. It cause a negative effect on biodiversity, especially in term of irrecoverable habitat fragmentation and loss, extermination of native and migratory bird species [3]. Bird species play a significant role in ecosystem like many food webs, nutrient cycles etc. But the increase of human disturbances causes habitat loss of birds that's why bird diversity decreases day by day. An evaluation of abundance and diversity of bird species in any ecosystem serve as a good indication of the health of the environment in and around the ecosystem [4].

Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati is situated pune district 100 km away from pune city. Geographically it is located at the latitude 18.159340, longitude 74.579514. College has very attractive and beautiful campus with avian and plant diversity. It is spread over thirty eight acre area.

Materials and Methods:-

The campus of Tuljaram Chaturchand College, Baramati was surveyed for the period of one year (July 2020 to June 2021). The survey was conducted at campus between 7.00 am to 10.30 am. Bird species were observed with a binocular and naked eyes. Their photographs were taken using a digital camera. The birds were identified by

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