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### **JAYWANT BOTANICAL GARDEN, INDIA AS A PLANT-POLLINATOR REPOSITORY IN URBAN LANDSCAPES IN THE ERA OF CLIMATE CHANGE CRISIS**

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#### **ABSTRACT**

Botanical gardens play an important role in preserving and promoting plant biodiversity, particularly in urban landscapes. The Jaywant Botanical Garden at Krishna Mahavidyalaya, Rethare (Bk.), M.S., India, serves as a repository for plant pollinators and has a significant ecological impact. The garden features a diverse array of native and exotic nectar and pollen producing plant species that provides a habitat for a variety of pollinators, including bees, butterflies, and birds. These pollinators play a crucial role in maintaining ecosystem health by facilitating plant reproduction and supporting food webs. We investigated survey of The Jaywant botanical garden by point count method for detecting and assessing pollinator diversity. Faculty experts in taxonomy from Botany and Zoology departments take initiative in the survey. The collected samples are identified with available literature and documented in the form of photographs and herbarium. About 59 plants frequently visited by honeybees, butterflies, birds and other insect pollinators in the garden are documented. About 31 species of butterflies, 26 species of birds and 3 species of honey bees were observed during the survey. The study highlights the importance of maintaining diverse range of nectar and pollen producing plants in botanical gardens to support and conserve pollinator diversity. In conclusion, The Jaywant Botanical Garden serves as a vital plant-pollinator repository in an urban landscape with a significant ecological impact. The garden's diverse plant species and pollinators provide numerous benefits to both the environment and the community in this era of climate change crisis.