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## Sustainable Development of Agriculture in Satara District: A Geographical Study

Dr. Smt. Sunita Mohan Chavan<sup>1</sup> & Miss. Aarti Shankar Himane<sup>2</sup>

<sup>1</sup>Assistant Professor, Venutai Chavan College, Karad

<sup>2</sup>M. A. I (Dept. of Geography), Venutai Chavan College, Karad

Corresponding Author – Dr. Smt. Sunita Mohan Chavan

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### Abstract:

Agriculture plays a crucial role in India's sustainable development journey, encompassing economic growth, food security, environmental protection, and rural livelihoods. Sustainable agricultural development is vital for ensuring food security, environmental conservation, and economic growth in rural regions like Satara District, Maharashtra. This paper explores the current status, challenges, and future opportunities for achieving agricultural sustainability in Satara district. It focuses on climate-resilient practices, efficient resource utilization, policy interventions, and investment trends. Using a mix of field data, policy analysis, and stakeholder interviews, the study reveals how integrated efforts by farmers, government agencies, and private players can pave the way for sustainable agricultural transformation in the district. The data thus collected through primary and secondary sources. This paper aims to provide a comprehensive understanding of the essential role of agriculture in fostering sustainable development.

**Keywords:** Sustainable Agriculture, Rural Development, Water Conservation, Crop Diversification, Climate Adaptation

### Introduction:

Agriculture is the primary livelihood for a significant portion of the population in Satara District, which exhibits diverse agro-climatic conditions. However, unsustainable practices, climate variability, and depleting water resources have increasingly threatened the agricultural economy. Agriculture, the primary source of food and livelihood for billions worldwide, has historically been humanity's bedrock. The concept of sustainable agricultural development, which balances productivity with ecological and social well-being, has become critical. This paper examines how Satara District is evolving through environmentally conscious practices, technological interventions, and policy initiatives aimed at long-term sustainability.

### Study Area:

The Satara district lies at the western limit of the Deccan table and in southern Maharashtra. District is located in the western part of Maharashtra and comprises 11 talukas. It includes varied geography from the Sahyadri hill ranges in the west (Mahabaleshwar, Wai) to the drought-prone plains in the east (Khatav, Man, Koregaon). The district grows a variety of crops, including sugarcane, rice, jowar, bajra, and horticultural crops like pomegranate and strawberries. Rain-fed farming predominates in the eastern belt, making it vulnerable to water scarcity and climate stress.