



# A STUDY OF THE USE OF MODERN IRRIGATION TECHNIQUES IN AGRICULTURAL SECTOR OF MAHARASHTRA

**Dr. Nilam Shankar Desai**

Assistant Professor, Department of Geography,

Venutai Chavan College,

Karad, Tal.- Karad, Dist.- Satara. (Maharashtra)

Email- nilamdesai1990@gmail.com

## Abstract :

Maharashtra is a diverse agricultural region with varying climatic conditions and soil types. However, the state frequently grapples with water scarcity, necessitating innovative approaches to water management. Traditional irrigation methods often fall short in addressing the increasing demand for water in agriculture, making it imperative to explore and promote the use of modern irrigation technologies. Drip Irrigation and Sprinkler Irrigation these two types irrigation system utilize maximum farmers in Maharashtra. It's important to check with local agricultural authorities, research institutions, or farmers' associations for the latest information on irrigation practices in Maharashtra, as advancements and changes in techniques may have occurred since my last update. In conclusion, the study seeks to shed light on the role of modern irrigation techniques in transforming the agricultural landscape of Maharashtra, ultimately contributing to the sustainable development of the state's agricultural sector.

**KEYWORDS :** Irrigation Techniques, Drip Irrigation, Sprinkler Irrigation, Agricultural Sector, Maharashtra.

## INTRODUCTION

By the first quarter of the 19<sup>th</sup> century, the British had brought a large part of India under

their rule. For the first few decades, he devoted himself to subduing rebellious pockets of resistance and introduced various social and economic reforms. They also constructed temporary tanks and barrages on rivers and streams. Some of the irrigation works built by the British in Maharashtra are still in use, for example the Krishna canal in Satara district, Shahada canal in Dhule district, Lakh canal in Ahmednagar district, Jamda canal in Jalgaon district, Khadakwasla canal near Pune city etc. But the system was purely Government administered and had no place for local participation.

The agricultural sector is the backbone of Maharashtra's economy, providing livelihoods to a significant portion of the population. As the state faces challenges such as water scarcity and unpredictable climatic conditions, the adoption of modern irrigation techniques becomes crucial to ensure sustainable agricultural practices. This study aims to investigate and analyze the use of modern irrigation techniques in the agricultural sector of Maharashtra, with a focus on enhancing productivity and mitigating the impact of water-related challenges.

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