

## AN ANALYSIS OF CLIMATE-SMART AGRICULTURE AND ITS MANAGEMENT

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### ABSTRACT

*The need for the feed is growing in tandem with the population growth. Agriculture has a critical part in supplying food to people all over the globe. Agricultural industries are the most well-known sectors, and they also contribute to a country's economic growth. The agricultural sector is facing a significant problem as a result of global climate change. Changeable weather patterns, shorter growing seasons, drought, severe temperatures, and increased exposure to pests and crop diseases are causing significant difficulties for farmers all over the globe. Farmers will be able to adapt and prepare for the effects of climate change by using climate-smart practices. The main goal of climate-smart agriculture is to increase agricultural output while also making farms more adaptable to climatic changes and lowering greenhouse gas emissions from agricultural products. As a result of the lack of information regarding climate-smart agricultural methods, as well as a lack of resources, socio-economic constraints at the farm level, and so on, climate-smart agriculture techniques face certain difficulties. To overcome all of these obstacles, government authorities, institutions, and key stakeholders should support climate-smart agriculture by offering different educational programs, financial assistance, and instruments. Farmers should be supplied with equipment that allows them to detect climate changes in real time and choose the best crop based on this information. It may be used to transmit messages to farmers in the future after sensing the quantity of water needed for crop growth.*

**KEYWORDS:** Agriculture, Climate, Farmers, Land, Management, Productivity.

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