

Climate-Smart and Risk-Resilient Agriculture in Gujarat

Through SATCOM – BISAG (N) Facility

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Agriculture in Gujarat is facing increasing challenges due to changing climate patterns. Irregular rainfall, rising temperatures, frequent scarcity conditions, and extreme weather events are affecting crop productivity, soil health, and farmers' livelihoods. Traditional farming practices are becoming less reliable, creating the need for approaches that can sustain production while reducing risks.

Climate-smart and risk-resilient agriculture focuses on improving productivity while adapting to climate variability and minimizing risks. It promotes practical measures such as efficient water use, adoption of climate-resilient crop varieties, soil conservation practices, and integrated farming systems. In Gujarat, where water scarcity and monsoon variability are major concerns, these approaches help in optimizing resources and maintaining stable yields.

Use of weather-based advisories and early warning systems supports timely decision-making at the farm level. Tools such as remote sensing, GIS-based monitoring, and digital advisory platforms can further strengthen preparedness. Crop diversification, promotion of drought-resistant varieties, and practices like mulching, drip irrigation, and use of organic inputs contribute to long-term sustainability and resilience.

Strengthening capacity at all levels is equally important. Farmers, extension workers, and local institutions need to be equipped with knowledge and practical skills to understand climate risks and adopt suitable strategies. Combining traditional farming knowledge with modern scientific practices can improve effectiveness and acceptance at the field level.

In Gujarat, where agriculture is a key contributor to rural livelihoods, building resilience is essential for both food security and economic stability. There is a need to move from reactive responses to proactive planning, where risks are anticipated and managed in advance.

In this context, the proposed training program on "Climate-Smart and Risk-Resilient Agriculture in Gujarat" will support stakeholders with practical understanding, tools, and strategies to address climate challenges. This training will be useful in enhancing preparedness, promoting sustainable agricultural practices, and strengthening decision-making in the changing climate scenario.