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Md. Shariful Islam, Md. Shahriar Kabir, A K M Kanak Pervez

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CLIMATE-SMART AGRICULTURE PROMOTING SUSTAINABLE AGRICULTURE IN BANGLADESH

Md. Shariful Islam[1], Md. Shahriar Kabir[2], A K M Kanak Pervez[2*]
Corresponding Author's Email: kp@ru.ac.bd

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ABSTRACT
Climate change is a significant threat to Bangladesh's agricultural production and food security, so promoting sustainable agriculture through climate-smart techniques is essential. This study will analyze the state of climate-smart agricultural practices in Bangladesh and offer suggestions for scaling up practical CSA projects. Climate-smart agriculture (CSA) aims to boost agricultural output, foster climate change resilience, and cut greenhouse gas emissions. It focuses on supporting methods that lower emissions from agriculture, such as integrated pest management, conservation agriculture, and using renewable energy in agriculture. Sustainable agriculture is a comprehensive method of farming that seeks to increase output while reducing harm to the environment and society. It involves soil health management, water conservation, biodiversity preservation, social fairness and inclusivity. Agroforestry, crop diversification, organic farming, and climate-smart agriculture are critical for Bangladesh's sustainable agriculture. CSA methods can increase agriculture's resistance to climate change while boosting output and halting environmental damage. Climate-smart agriculture is essential for advancing sustainable agriculture in Bangladesh and requires supportive policies, institutional frameworks, and financial mechanisms to encourage and facilitate farmers' adoption of CSA methods.

[1] Planning Monitoring Evaluation and Learning Lead, Cordaid, Bangladesh
[2] Dept. of Agronomy and Agricultural Extension
University of Rajshahi, Rajshahi-6205, Bangladesh