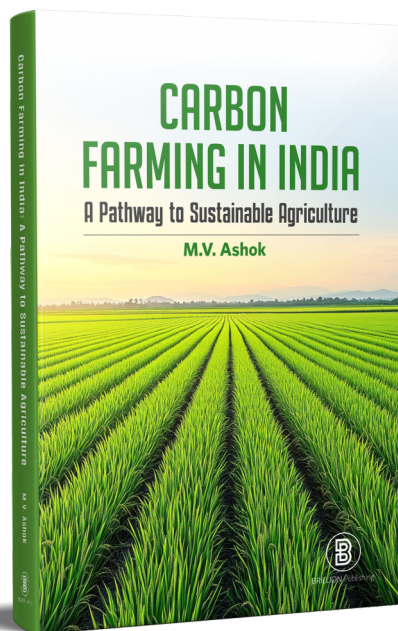




CARBON FARMING IN INDIA

A Pathway to Sustainable Agriculture

Carbon Farming in India: A Pathway to Sustainable Agriculture explores the transformative role of carbon farming in addressing the interconnected challenges of climate change, soil degradation, and agricultural sustainability. The book presents carbon farming as an innovative and practical approach that enables farmers to improve soil health, increase productivity, and contribute to climate change mitigation by enhancing carbon sequestration in agricultural landscapes.

Drawing upon scientific research, policy developments, and practical experiences, the book examines a wide range of sustainable farming practices, including conservation agriculture, agroforestry, cover cropping, crop residue management, organic farming, integrated nutrient management, and regenerative agriculture. It highlights how these practices can restore soil fertility, improve water retention, reduce greenhouse gas emissions, and strengthen the resilience of farming systems against extreme weather events.

The book also discusses India's growing opportunities in carbon markets, carbon credit mechanisms, and climate-smart agriculture. It explains how farmers, policymakers, researchers, agribusinesses, and other stakeholders can collaborate to create supportive institutional frameworks, effective measurement and verification systems, and incentive structures that encourage the adoption of carbon farming practices.

Special emphasis is placed on the socio-economic benefits of carbon farming, including enhanced farm incomes, reduced input costs, improved biodiversity, and sustainable rural development. The book further examines policy initiatives, government programmes, and international climate commitments that position India as a potential global leader in sustainable agricultural transformation.

By integrating scientific knowledge with practical implementation strategies, **Carbon Farming in India: A Pathway to Sustainable Agriculture** serves as a comprehensive resource for students, researchers, policymakers, extension professionals, entrepreneurs, and progressive farmers. It offers a forward-looking vision for building a resilient, low-carbon agricultural sector that ensures food security, environmental conservation, and long-term prosperity for present and future generations.

M.V. Ashok

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