

Emerging Trends in Sustainable Agriculture

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VITAL BIOTECH PUBLICATION

Kota, Rajasthan, India

<http://www.vitalbiotech.org/bookpublication/>

An International Publishers

VITAL BIOTECH get Accredited by following International organization



<https://www.portico.org/publishers/vital/>

101 Greenwich Street, 18th Floor

New York, NY 10006

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Published by Vital Biotech Publication

First Edition: 2024

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Product Form Available:

Hardbound and Paperback

Edition:

ISBN: 978-81-968997-7-6

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Contact No. +91-9784677044

Printed at: Vital Biotech Publication, Kota

Preface

Sustainability in agriculture is a complex idea with many facets, including the economic, social and the environmental. Sustainability rests on the principle that we must meet the needs of the present without compromising the ability of future generations to meet their own needs. Therefore, long-term stewardship of both natural and human resources is of prime importance.

Demand of increase in food production to feed the rapidly growing global population has pose serious threat to the agricultural sustainability. Climate change also offers serious challenge to global food security situation as it will negatively affect agricultural yields, particularly in low income countries.

The present book entitled *Emerging Trends in Sustainable Agriculture* is a sincere attempt to describe sustainability of farming systems focusing on various issues of global concern as well as different regions of the country, recent innovations in eco-friendly approaches, such as the utilization of waste materials, climate change adaption and mitigation, natural resource management, building and maintaining healthy soils, tools to mitigate the effect of extreme weather events, soil carbon sequestration, water and nutrient management in agricultural systems, minimizing air and water pollution, and promoting biodiversity, etc. The book includes a whole field of research devoted to achieve the goals of agro-ecology, the science of managing farms as ecosystems.

The publication would surely serve as a valuable source book for the researchers, scientists, teachers, academicians, policy planners and students who want to be fully acquainted with Emerging Trends in Sustainable Agriculture.

We express our gratitude to all who contributed collaborating and sharing their important ideas and knowledge in practice this book is very instructive. We also thank Dr. Jitendra Mehta, Vital Biotech Publication, Kota, Rajasthan, for professional publication of this book care and enthusiasm. Co-operation of the office of the editors of the publication house, from the beginning to the last edition is much appreciated.

Dated: 20-06-2024

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