

SUSTAINABLE HORTICULTURE

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Preface

Sustainable horticulture has emerged as a cornerstone of modern agricultural development, balancing productivity with environmental stewardship, economic viability, and social well-being. In an era marked by climate change, shrinking natural resources, soil degradation, and increasing demand for nutritious food, the need for sustainable approaches in horticultural production has never been more urgent. This book, *Sustainable Horticulture*, is an effort to present a comprehensive and practical perspective on achieving resilient and eco-friendly horticultural systems.

The volume brings together contemporary concepts, scientific advancements, and field-based practices that promote sustainability in fruit, vegetable, ornamental, and plantation crops. Emphasis is placed on efficient resource management, soil and water conservation, climate-smart technologies, biodiversity enhancement, integrated nutrient and pest management, organic and natural farming approaches, and the use of innovative tools to improve productivity while minimizing environmental impact.

Designed for students, researchers, extension professionals, farmers, and policymakers, this book aims to bridge the gap between theory and practice. Each chapter is structured to provide clear explanations, recent research insights, and real-world applications, enabling readers to understand the complexities of sustainable horticultural systems and adopt solutions suited to diverse agro-climatic conditions.

We sincerely hope that this book will serve as a valuable reference and inspire stakeholders to embrace sustainable horticulture as a pathway toward food security, environmental conservation, and improved livelihoods. The editors and contributors trust that this work will contribute meaningfully to the advancement of horticultural science and the creation of a more sustainable and resilient agricultural future.

Dr. Chetna

Dated - 01 Jan. 2026

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Mr. Suresh Kumar

Mrs. Pushpanjali Pankaj

CONTENTS

S. NO.		PAGE NO.
1.	Foundations of Sustainable Horticulture <i>Chetna</i>	1-14
2.	Climate-Resilient Horticultural Production Systems <i>Muktilata Tirkey</i>	15-32
3.	Soil Health and Sustainable Nutrient Management <i>Suresh Kumar</i>	33-50
4.	Water Conservation and Efficient Irrigation Practices <i>Pushpanjali Pankaj</i>	51-70
5.	Organic and Natural Approaches in Horticulture <i>Naval Kishore Meena, Vicky Yadav, Sachin Bhagoji Pavhane, Jinti Mani Sarma, Ashish Singh</i>	71-88
6.	Integrated Pest and Disease Management Strategies <i>Naval Kishore Meena, Vicky Yadav, Hasamukh Lal, Gopinath Vinayakrao Bhosale, V. Manoj Kumar Reddy</i>	89-106
7.	Sustainable Protected Cultivation and Greenhouse Technologies <i>Naval Kishore Meena, Vicky Yadav, Chiranjit Mazumder, Revathy .K, Shivaraj Kumar Verma</i>	107-126
8.	Post-Harvest Management and Value Addition in Horticultural Crops <i>Naval Kishore Meena, Vicky Yadav, Kunal Machhindra Naik, Ananya Mishra, Chiranjit Mazumder</i>	127-146
9.	Artificial Intelligence and Automation <i>BVS Kiran, B. Rajyalakshmi and Akula Sreenivas</i>	147-162
10.	Agricultural Marketing and Supply Chain <i>Akula Sreenivas, BVS Kiran and B. Rajyalakshmi</i>	163-178

11. Hybrid Breeding and Heterosis in Vegetable Crops	179-192
<i>D Triveni and K. Lakshmikala</i>	
12. Modern Breeding Approaches for Vegetable Crop Improvement	193-206
<i>D Triveni and K. Lakshmikala</i>	
13. Nutritional and Biofortification Breeding in Vegetables	207-218
<i>D Triveni and K. Lakshmikala</i>	
14. Organic and Natural Farming Systems	219-232
<i>B. Rajyalakshmi, Akula Sreenivas, BVS Kiran and Dandu Rajashekhar</i>	
15. Management of plant architecture in fruit crops	233-238
<i>L.Shruthi Reddy, M. Rajasekar</i>	
16. Soil Remediation Techniques: Bioremediation and Phytoremediation	239-258
<i>Masanagari Supriya & Thunam Srikanth</i>	
17. Flower Arrangements & Floristry Arts	259-272
<i>Saidulu Yeluguri</i>	
18. Plant Tissue Culture Techniques for Flower Production	273-284
<i>Saidulu Yeluguri</i>	
19. Strawberry- A potential crop for vertical farming	285-290
<i>Shruthi Reddy. L, Rajasekhar.M</i>	
20. Plant Propagation in Fruit Crops - Principles, Methods and Importance	291-304
<i>L. Shruthi Reddy</i>	
21. Soil-Plant-Microbe Interactions for Sustainable Productivity	305-324
<i>Thunam Srikanth, Masanagari Supriya</i>	