



वार्षिक प्रतिवेदन Annual Report 2008-09



केन्द्रीय उपोष्ण बागवानी संस्थान

रहमानखेड़ा, लखनऊ

Central Institute for Subtropical Horticulture
Rehmankhara, Lucknow



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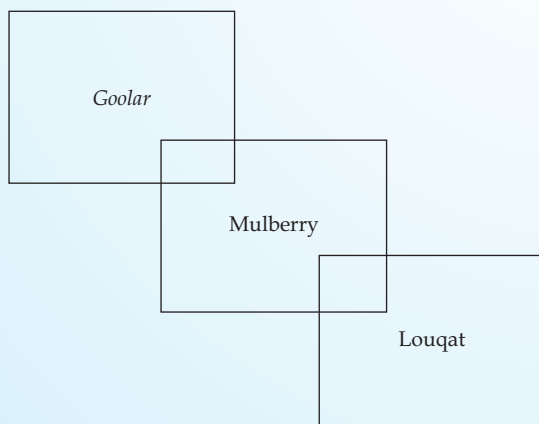
Correct Citation
CISH Annual Report, 2008-2009
Lucknow, India

Published by :
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Central Institute for Subtropical Horticulture (ICAR)
Rehmankhera, Lucknow-227 107 (U.P.), INDIA

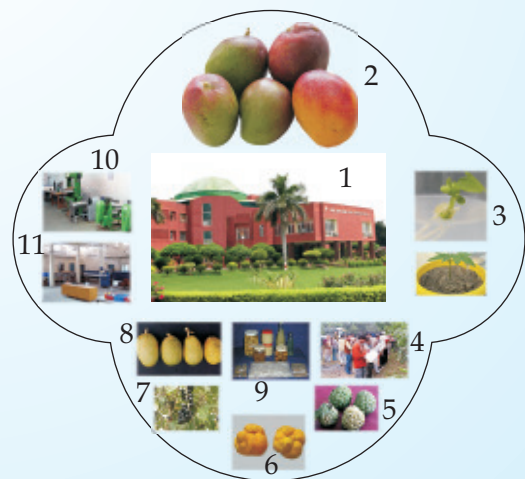
Compiled and Edited by :
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Cover Design and Photographs by :
Prem Kumar and H. Rehman

Back Cover



Front Cover



1. Laboratory cum Administrative complex, 2. Mango variety-Arunika 3. Transgenic papaya developed against PaLcv, 4. Technology dissemination through field visit, 5. Custard apple, 6. Barhal (Lakuch), 7. Jamun, 8. Bael-CISH B-1, 9. Aonla products, 10. Processing Hall, 11. Packaging Hall

PREFACE

Owing to rapid pace of industrialization especially during the century gone by, climatic scenario in conjunction with declining arable land versus population the world over, has witnessed the unprecedented irreversible shifting patterns, impacting the crop productivity linked factors in a negative mode. Accumulation of carbon credit points in a variety of eco-systems and their percolation down the food web, elevation as well as extension of thermal degree co-efficient over temporal/ spatial scale and relatively lower precipitation rates being experienced currently, has largely resulted in degradation of soil fertility, declining water productivity potential, phenomenal emergence of certain new pests/diseases and above all the erosion and even extinction of invaluable genetic wealth of the country.

Agri-horticultural scientists are actively engaged in confronting the emerging challenges with broader scientific vision and tackling the issues through holistic approaches for evolving and refining the viable technologies with angular societal aspirations for ensuring sustainable livelihoods and better economic options for different economic strata.

The work carried out during the period and reported herein represents the strategic planning exercises in the mandate crops of the Institute comprising of conservation of germplasm and their effective utilization for crop improvement through conventional as well as biotechnological interventions. It is envisaged for developing and meeting various domestic as well as international market requirements. Collection and conservation of germplasm in mandate crops especially mango has led to the development of improved mango variety 'Arunika' through sustained efforts and its release during the period. Canopy engineering, water productivity, fertigation, substrate dynamics, integrated pests and diseases management options have been pursued vigorously and experimented upon in view of obtaining better utilization of dwindling natural resources for maximization of productivity potential. Curtailment of post-harvest losses through pre-harvest management programme has been addressed and development of variety of products coupled with waste/ by-product utilization is in sharp focus. Technology dissemination and its refinement strategies have been attended through farmers-scientists interaction, farm visits, training programmes and technology impact assessment approaches. The Institute endears itself to bring about strategies for improving the livelihood options of farmers through sustainable approaches of integrated horticultural development in the coming years.

The contributions of all the concerned Divisions, administration, accounts, other staff and especially the publication committee headed by Dr. D.K.Tamdon and Dr. R.M.Khan and Shri Dhiraj Sharma in shaping this publication are gratefully acknowledged.

October 2009


(H. RAVISHANKAR)
DIRECTOR