वार्षिक प्रतिवेदन
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Central Institute for Subtropical Horticulture
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Front Cover

CISH G-1
Bael harvester
Ripening of mango with ethrel
CISH Products
Laboratory-cum-administrative complex

Back Cover: One hundred and fifty years old Horticultural Heritage Dashehari tree, Kakori village, Lucknow accorded G.I. No. 125

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PERPETUAL SCIENTIFIC QUEST FOR AUGMENTING HORTICULTURAL PRODUCTION COUPLED WITH INDUSTRIALIZATION AND ITS ATTENDANT PROBLEMS THROUGH A RANGE OF TECHNOLOGICAL INNOVATIONS THOUGH TO A GREATER EXTENT COULD MEET THE DESIRED GOAL BUT IN THE PROCESS ISSUES OF HARMONIZING THE DELICATE ECOCLOGICAL EQUILIBRIUM TO UNPRECEDENTED CLIMATIC UPEHAVALS WHICH COULD DERAIL FOOD AND NUTRITION CHAIN AT LARGE APPEARS TO BE THE MATTER OF GREAT CONCERN. ADDITIONALLY, THE PHENOMENAL LOSSES OF PRODUCE AT POST HARVEST STAGES TOO CAST SHADOW ON THE AVAILABILITY SCENARIO. FURTHERMORE, THE EMERGENCE OF MARKET DRIVEN FORCES ALONG WITH QUALITY AND HEALTH CONSCIOUS POPULACE HAVE BEEN POSING ALTOGETHER DIFFERENT SET OF CHALLENGES. THE DIFFERENT FORCES CALL FOR A JUDICIOUS 'NATURE RESCUE APPROACH' THROUGH PRAGMATIC PRODUCTIVITY FACTOR HARMONIZATION CONCEPT ACCOUNTING FOR BROADER VIEW OF ECOCLOGICAL PROCESSES VIS-A-VIS PRODUCTION PRACTICES FOR ENSURING SUSTAINABILITY. INSTITUTE THROUGH A SERIES OF IN HOUSE EXERCISES AND STAKEHOLDERS MEETINGS, UNDERTOOK PRIORITY SETTING AND RESEARCH REORIENTATION PROGRAMMES FOR FINE TUNING AND ADDRESSING THE RELEVANT ISSUES.

THE RESEARCH WORK CARRIED OUT ON DIFFERENT ASPECTS OF MANDATE CROPS DURING THE PERIOD AND REPORTED HEREIN IS AN OUTCOME OF WELL THOUGHT OUT PROCESS TAKING INTO ACCOUNT THE PREVAILING SCENARIO AND EMERGING SIGNALS. SURVEY, COLLECTION AND EVALUATION OF TRAIT-SPECIFIC GERMPLASM OF MANDATE CROPS ESPECIALLY IN MANGO, GUAVA, PAPAYA AND JAMUN, IN HARMONY WITH CROP IMPROVEMENT PROGRAMME CONTINUED TO BE IN FOCUS. ADDRESSING CRITICAL PRODUCTIVITY ISSUES OF CROP CANOPY ARCHITECTURE, FERTIGATION, SUBSTRATE DYNAMICS AND ORGANIC FARMING DURING THE PERIOD THROUGH RESEARCH PROGRAMMES WAS AN ATTEMPT TO DEAL WITH THE CHALLENGES ARISING OUT OF YIELD PLATEAU, WATER CONSERVATION AND ENVIRONMENTAL SAFETY. STUDIES Undertaken pertaining to seasonal dynamics of pests, diseases and their potential antagonists, molecular characterization, etc., indicate the institutes' incessant efforts to provide the cost effective technologies with minimal usage of chemical(s). Concern for minimization of crop losses at post harvest stage, market economy, farm income enhancement and pesticide residue issues have been addressed. Technology dissemination and capacity building initiatives through variety of programmes including demonstration, scientists-farmers interaction and trainings pursued by the Institute have been widely welcomed. Institute's website www.cishlko.org under the 'media resource file' provides the user with technological information and dynamic information under 'farmers advisory'. There have been sustained efforts of propagating quality planting materials at the Institute's scientific nursery and the concerned were sensitized about critical issues.

THE INSTITUTE WISHES TO GRATTEFULLY PLACE ON RECORD, THE CONSTANT ADVICE, SUGGESTIONS AND GUIDANCE RECEIVED FROM HON'BLE DIRECTOR GENERAL & DEPUTY DIRECTOR GENERAL(HORT.), ICAR FOR FINE TUNING AND IMPROVING THE OUTPUTS. THE EFFORTS OF SCIENTISTS IN DULY GETTING SENSITIZED TO THE EMERGING ISSUES AND CONTRIBUTIONS OF TECHNICAL, ADMINISTRATIVE AND SUPPORTING STAFF DURING THE PERIOD ARE WIDELY APPRECIATED. THE KEEN INTEREST, INVOLVEMENT AND COMMITMENT OF THE PUBLICATION COMMITTEE OF THE INSTITUTE IN BRINGING OUT THIS DOCUMENT IN AN ABRIDGED FORM IS HIGHLY COMMENDABLE.

( H. RAVISHANKAR)
DIRECTOR

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