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TECHNOLOGIES DEVELOPED BY ICAR NEW DELHI FOR FARMERS WELFARE

The Indian Council of Agricultural Research under the governance regime of the Department of Agricultural Research and Education, Govt. of India has been pioneering in the science-led growth and development of Indian agriculture. Taking this endeavor forward, I.C.A.R. New Delhi has developed the technologies after rigorous research for the welfare of the farmers, some of them are listed as under:

A portable and low-cost soil test kit/mini lab (MRIDAPARIKSHAK) was developed for rapid analysis, and distribution of soil health cards to farmers. More than 11300 units were sold which facilitated soil testing service at farmers' door step.

A multipurpose rubber dam was designed for watershed to reduce soil erosion, create water storage facility, and enhance ground water recharge and quick and safe disposal of sediments. Forty-three rubber dams were installed in the states of Odisha, Uttarakhand, Madhya Pradesh, Maharashtra, Gujarat and Jharkhand.



- ICAR updated and provided technical backstopping to implement 650 District Agricultural Contingency Plans
- Thirty-one multi - enterprise integrated farming system (IFS) models developed to enhance farm productivity and income of small and marginal farmers to the tune of Rs. 1.5 - 3.6 lakhs per annum per hectare. For frontline extension purposes, the IFS demonstration units were also established in additional 100 KVKs covering 29 states (2014-19), enhancing the total number to 287
- Developed during 2016-19 against 14 during 2009-14 organic farming package of practices for 33 crops/cropping systems which are being promoted through various schemes (PKVY/ MOVCD/NHM) of the Department of Agriculture, Cooperation & Farmers' Welfare, GoI
- Optimum irrigation schedules were defined for 32 crops and cropping systems during 2014-19 against 18 during 2019-14 for efficient use of irrigation water
- Standardized designs and structures for rainwater harvesting in varying rainfall situations in 21 states
- Groundwater recharge structures and filters for alluvial and hard rock regions were designed.

IHT EDUCATION

Commercial Hydroponics: To successfully grow plants with hydroponics, it is essential that you have a good understanding of how the plant grows. Anybody can grow plants in soil with reasonable success, but to grow plants in hydroponics, you must understand how the plant grows, so that you can control the light and the temperature, water, oxygen and nutrients in the root zone. In present economic situation having knowledge of an academic subject is no longer sufficient for entrepreneurs; training provides them the ability to recognize commercial opportunities, self-esteem, knowledge and skills. To meet entrepreneurs, need institute has successfully organizing self-sponsored training programs on “Commercial Hydroponics”, for progressive growers, entrepreneurs and students from different states in different slots. During training trainees are well explained about important inputs related to hydroponics like water quality analysis for open and closed loop, seeds identification, nursery production, plant nutrition management, climate control in greenhouse, cladding materials, training-pruning, crop care, physiological disorders of hydroponics crops and greenhouse pest management.



Trainees undergoing interactive online lectures and hands on training on crop harvesting, crop care and nutrient and water management hydroponic greenhouse during the training programme

TECHNOLOGY DEMONSTRATIONS

Establishment of disease free elite Khasi Mandarin and Sweet Orange genetic stocks through Shoot Grafting (STG) and Mass Production of Quality Planting Material for NE States of India.

During the month IHT, Mandira, Assam organized training program on “Quality Plating Material and Grafting Techniques” for framers of Assam. This training was conducted under the project of “Establishment of disease free elite Khasi mandarin and sweet orange genetic strokes through shoot grafting (STG) and mass production of quality planting material for NE states of India”. Experts addressed to progressive farmers for developing skill in Micro budding and tools require for budding tape, hand pruner or secateurs, budding knives and sharpening stone, Quality Plating Material and Grafting Techniques.



Training Programme at farmer fields Dhanbari, Goalpara District, Assam



Training Programme at on Khasi Mandrin and Sweet orange at farmer fields in Lawdoba, Goalpara District, Assam



Training Programmes at Gamorimura Village, Boko Block, Kamrup District, Assam

Demonstration of tissue cultured cut-flower orchid production in villages of Assam and Meghalaya

During the month Institute successfully organized training on tissue cultured cut flower orchid production in protected condition at IHT Mandira campus as well as at nearest farmer's fields in this month. This training was conducted under the project of "Demonstration of Tissue Cultured Cut Flower Orchid Production in Villages of Assam and Meghalaya".



Training cum Demonstration of Tissue Cultured Cut Flower Orchid Production in Protected Condition



Hands on Training in Farmers Field in Assam on Orchids Cultivation

Upcoming Training Programmes:

S. No.	Title	Date	Duration	Mode of Training
1.	Online Basic Hydroponics	29 th Nov - 4 th Dec 2021	1 Week	Online
2.	Organic Farming	06 th -08 th Dec 2021	1 Week	Online
3.	Protected Cultivation of Vegetables Crops	06 th -11 th Dec 2021	1 Week	Online
4.	Landscape Horticulture	06 th -18 th Dec 2021	2 Week	Online cum Offline
5.	Commercial Hydroponics	06 th -18 th Dec 2021	2 Week	Online cum Offline
6.	Vegetables Nursery Production	13 th -15 th Dec 2021	3 Days	Online
7.	Ornamental Nursery Production	16 th -18 th Dec 2021	3 Days	Offline

*Customized courses on protected cultivation of vegetable crops, commercial hydroponics, mushroom cultivation, vegetables nursery production, forest plant nursery management, commercial hydroponic also offered on demand.

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