

5. TRAINING AND CAPACITY BUILDING

5.1: Education

Ph.D. study leave

Mr. K. Velmourougane, Scientist (Microbiology) and Mr. A. Sampath Kumar, Scientist (Pathology) have been deputed for Ph.D. programme at IARI,

New Delhi and TNAU, Coimbatore respectively.

Joining after study leave

Mr. M. Sabesh, Scientist, Computer Applications joined office on 8th October 2014 after the completion of his Ph.D. study leave.

5.2: Training

5.2.1: Training Received

Name of the officials	Name of the course/training	Place	Period
Mr. Joy Das Mr. Rakesh Kumar	Professional attachment training for ICAR scientists	IIHR, Bangalore	12.05.2014 to 13.08.2014
Dr. A.H. Prakash	MDP on Leadership Development (Pre-RMP Cadre)	NAARM, Hyderabad	01.12.2014 to 12.12.2014
Dr. M. Amutha	Functional Insect Pest Management	Tamil Nadu Agricultural University, Coimbatore	02.12.2014 to 22.12.2014
Dr. A. Manikandan Dr. H. B. Santosh	Cotton Spinning	CIRCOT, Mumbai	05.01.2015 to 09.01., 2015
Dr. D. Kanjana	Nanotechnology tools for crop health and risk assessment techniques	Tamil Nadu Agricultural University, Coimbatore.	04.02.2015 to 13.02. 2015
Dr. A. Manikandan	Role of Scientists in Natural Resources and Environment Management	IIFM, Bhopal	16.02.2015 to 20.02. 2015
Mr. Joy Das	Recent Advances in Statistical Genetics	IASRI, New Delhi	03.02.2015 to 23.02.2015

5.2.1: Training Imparted

International training

C-4 Countries In-country training on Modern Cotton Production technology

An In-country Training program on 'Modern Cotton Production Technology' for C-4 countries (Benin, Burkina Faso, and Chad) was conducted under the Technical Assistance Programme for Africa by Dr. D. Monga, Head, Regional Station CICR, Sirsa and Dr. D. Blaise, Head, Crop Production, ICAR-CICR, Nagpur. The trainings were conducted on 4-5 August in Cotonou, Benin;

8-9 August in Moundou, Chad and 12-13 August 2014 in Ouagadougou, Burkina Faso facilitated by the Nodal Officers of the Cotton TAP in the respective countries. A total of 78 participants were trained during this In-country training programme (26 from Benin, 32 in Chad and 20 in Burkina Faso). The training module comprised country perspectives, modern cotton production practices, pest management and innovative technologies. There was active interaction and participation by the trainees during the two day long training programmes in each country.



Participants at Cotonou, Benin along with Dr. Alice Igue, Nodal Officer, Cotton TAP for Benin



Participants of training on Modern cotton Production Technologies from Uganda along with Ms. Jolly Sabune, CEO, Cotton Development Organization, Uganda, Dr. K. R. Kranthi, Director CICR and Dr. M. V. Venugopalan Principal Scientist, CICR, Nagpur



Visit to cotton fields at Mondou, Chad along with Dr. Nomaye, Nodal Officer for Cotton TAP in Chad and Master Trainers Dr. Carrolle and Helene

In country Training for Implementation of Cotton Technical Assistance Programme (TAP) under Indo-Africa Forum Summit-II

Dr. K.R.Kranthi, Director, CICR and Dr. M.V.Venugopalan, Principal Scientist (Agronomy) visited Malawi and Uganda from Dec. 13 to 23, 2014 for implementation of Cotton Technical Assistance Programme (TAP) under Indo-Africa Forum Summit-II. The purpose of visit was to impart training entitled "In country Training Programme on Modern Cotton Production Technology" under TAP. In Malawi the training workshop was held at Machinga Agriculture

Development Division, Liwonde and was attended by 27 participants. In Uganda training programme was held on Dec. 18 and 19, 2014 at Cotton Development Organization, Kampala, Uganda. Dr. Kranthi shared his knowledge and experience on pest and disease identification and management, technology of GM crops and Bt cotton. Dr. Venugopalan made a presentation on 'Modern Cotton Production Technology' and covered aspects as conservation agriculture, nutrient deficiency diagnosis, soil testing, integrated nutrient management and good agronomic practices.

National Training

Orientation Training Programme on IRM/ HDPS to State Agricultural Officers

One day training programme on Insect Resistant Management under High Density Planting System (IRM/HDPS) was organized by CICR, RS, Coimbatore on 30th of May 2014. The training programme aimed to provide the technical details and guidelines on IRM/HDPS to the Agricultural Officers from the IRM/ HDPS implemented districts of Tamil Nadu. The training programme was conducted by Dr. (Mrs) B. Dhara jothi, Principal Scientist and IRM State Coordinator (Tamil Nadu). Project Co-ordinator and Head, CICR, RS, Coimbatore Dr. A. H. Prakash chaired

the session. The trainees comprised of Deputy Directors of Agriculture, Assistant Directors of Agriculture, Deputy Agricultural Officers, Agricultural Officers of Perambalur, Virudhunagar, Salem and Coimbatore districts of Tamil Nadu state. Dr. A. H. Prakash, Project Coordinator and Head briefed about the importance of public sector varieties and their effective utilization for the sustainable cotton production. He also highlighted the current problems faced in cotton cultivation and the necessity to revive the production system by adopting new techniques such as High Density Planting System for increasing the cotton yield with minimum cost.

Lectures were also delivered by Dr. (Mrs) B. Dhara jothi, IRM State Co-ordinator of Tamil Nadu and Principal Scientist Entomology on "Project implementation and dissemination of IRM strategies under HDPS" and by Dr. K. Sankaranarayanan, Principal Scientist, CICR, RS, Coimbatore on "Agronomical aspects of HDPS". Dr. S. Usha Rani, Senior Scientist delivered a lecture on the novel method of disseminating the useful cotton cultivation tips to the farmers through e-Kapas. The participants were actively involved in the discussions and clarified many of the queries related to HDPS.

Training on HDPS Cotton Cultivation at Pusad

Scientists of CICR Nagpur Dr. A. R. Raju, Dr. Suman Bala Singh and Dr. Vishlesh Nagrare participated in the training on HDPS cotton cultivation jointly organized by Vasantaro Naik Smriti Pratishan and Agriculture Department, Govt of Maharashtra, at Pusad, District Yeotmal on 3rd June 2014. Dr. Raju delivered talk on how to sustain livelihood of farmers with cotton cultivation along with other allied farming activities. Dr. Suman Bala Singh delivered a talk on suitable varieties for HDPS while Dr. Nagrare elaborated pest and disease management strategies under HDPS as well as in Bt cotton. Shri Dipak Asegaonkar, Chairman, Vasantaro Naik Smriti Pratishan, Pusad, presided over the training. Shri Wankhede, Sub Divisional Agriculture Officer, Pusad coordinated the training. About 125 farmers mainly HDPS beneficiaries of ensuing crop

season from 4 Talukas viz., Pusad, Mohagoan, Digras and Umarkhed participated in the training.

Training programme for Tribal Cotton Growers

A training programme on "Integrated Cotton Management Practices" for tribal cotton growers was conducted at CICR Regional Station, Coimbatore during July 03-04, 2014 under All India Coordinated Research project on Cotton (AICRP) - Tribal Sub Plan (TSP). Twenty tribal cotton growers from Sadivayal, Thondamuthur villages of Coimbatore District participated in the two days programme. In all 12 lectures by scientists and a field visit was under the arranged programme. The importance of quality cotton seed for higher productivity, physiological disorders of cotton and their management and agro techniques for increasing the yield in cotton were dealt well in the training. In addition information was given on the novel technology - High Density Planting System (HDPS) in cotton. Information on IPM / IRM strategies, emerging pests and their management and nematodes management were also given to the trainees. The trainees visited the trials of pruning techniques in the CICR farm. The trainees were explained about e-Kapas network and all of them joined willingly in the e-Kapas programme. The researchable problems in cotton were identified with the participation of farmers in Best Cotton Cultivation Programme.

An on-campus training programme was also conducted for 20 tribal cotton growers from Senkuttaiyur, Coimbatore on 07.07.14 and 08.07.14 at CICR, Coimbatore under AICRP cotton.



Farmers Training Programme on IRM/HDPS

A training programme on Cotton High Density Planting System was demonstrated for rainfed crop in Tamilnadu by Central Institute for Cotton Research, Regional Station, Coimbatore with collaboration of MYRADA, KVK, Gobichettipalayam at Vellithiruppur and Mathur villages of Andhiyur Block, Gobichettipalayam Taluk, Erode District on 27th August 2014. The farmers were trained by Dr. (Mrs). B. Dharajothi, Principal Scientist and State Co-ordinator of the project and Dr. S. Usha Rani, Senior Scientist, CICR, Regional Station, Coimbatore. The gathering was addressed by the scientists about the method of planting, critical steps to be followed in the crop production and protection, advantage of High Density Planting System and methods for the sustainable cotton production. Officials from MYRADA, KVK Mr. R. D. Srinivasan, Plant Protection specialist, Mr. K Sekar, Soil Science specialist, Mr. N. Shivappa, Manager and Mr. P. Thirumurugan, Helper interacted with farmers and explained about the advantage of cotton cultivation under HDPS.

Later a practical demonstration in the farmers field was conducted wherein the scientists demonstrated the new method of sowing with modified spacing under High Density Planting System. A training handout explaining the technique in detail and other training materials were also provided.

Field Workers Training on IRM/HDPS

Field workers engaged under the project NFSM-

IRM/HDPS project were offered training on IRM/IPM and HDPS at CICR, Regional Station Coimbatore on 5th September 2014. The field workers were briefed in detail about identification of pests of cotton, damage symptoms etc., through power point presentations by Dr. B. Dharajothi, Principal Scientist and State Coordinator of the project. Also the methodology of data collection in the project villages was explained in detail. Handouts with the information on the cotton pest management and pest identification were also provided.

Farmers' training on IRM/HDPS under NFSM

A training programme on IRM - HDPS on cotton under NFSM-IRM project was organized at CICR, Regional Station, Sirsa. 95 farmers including farmers who had taken up demonstration trials also attended the training programme. Dr. Monga, Head, CICR, RS, Sirsa discussed in detail about the HDPS in cotton and its production technology.

FOCARS (NAARM Scientist- Training)

The trainees after their study, conducted village seminar and had a public interaction in presence of staff of KVK, CICR, Nagpur. Seminar was held at Institute also, where the trainees shared their experiences of the village. They were taken for industrial visits to Bajaj steel industries, Morarji textiles and other sister institutes such as Ginning Training Center, Central Citrus Research Institute and National Bureau of Soil Survey and Land Use Planning. Dr. V. Santhy, Senior Scientist co-ordinated the complete programme.

