

## **Feed The Future India Triangular Training (FTF ITT) Program**

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1. A brief report on the 37<sup>th</sup> FTF ITT Program on "Climate Smart Agriculture" scheduled during 20 August - 3 September, 2019 at National Institute of Agricultural Extension Management (MANAGE), ICAR - Central Research Institute of Dryland Agriculture (CRIDA) and Water and Land Management Training and Research Institute (WALAMTARI), Hyderabad, Telangana, India

### **I. The Inaugural Ceremony**

The 37<sup>th</sup> Feed The Future India Triangular Training (FTF ITT) program on "Climate Smart Agriculture" was inaugurated on 21<sup>st</sup> August, 2019 at National Institute of Agricultural Extension Management (MANAGE) Hyderabad, India. A total of 27 participants (11 female and 16 male executives), from twelve Asian and African countries namely, Afghanistan, Cambodia, Nepal, Sri Lanka, Myanmar, Botswana, Kenya, Malawi, Mozambique, Uganda, Tanzania and Liberia joined to participate in this program.

The program was inaugurated by Smt. Radhika Rastogi, IAS, Deputy Director General, National Institute of Rural Development & Panchayati Raj (NIRD&PR), Hyderabad and Smt. V. Usha Rani, IAS, Director General, MANAGE. The event began with the lighting of ceremonial lamp. Dr. M. Maheswari, Director in charge, ICAR-CRIDA; Dr. B Krishna Rao, Director (Agriculture & Research), Water and Land Management Training and Research Institute (WALAMTARI), Hyderabad; Dr. Mahantesh Shirur, Dy. Director (Agril.Extn.), MANAGE and the FTF ITT participants, faculty from MANAGE and the members of Program Management Unit (PMU) were present during the event. The participants after being welcomed, introduced themselves to the dignitaries and the audience.



**37<sup>th</sup> FTF ITT Training Program on "Climate Smart Agriculture" inaugurated by Smt. Radhika Rastogi, IAS, Deputy Director General, NIRD&PR, Hyderabad and Smt. V. Usha Rani, IAS, Director General, MANAGE, Hyderabad.**

**Smt. V. Usha Rani** welcomed all the executives to the program and appreciated the diversity of the nationalities and culture of the participants. In her welcome address she said that, this is a unique training program where enrichment of ideas by the trainers and participants from across the globe will help us to identify gaps and opportunities related to the impact of Climate Change in Agriculture. This training is very unique in many respects. First, the participants for this program have joined from twelve different countries and belong to very diverse professional backgrounds and expertise. Secondly, for the first time in the series of FTF ITT programs, three institutes (MANAGE, ICAR-CRIDA and WALAMTARI) in India have come forward to collaboratively conduct the program.



**Smt. V. Usha Rani, IAS, Director General, MANAGE, Hyderabad addressing the participants**

She pointed out that, 'Climate Smart Agriculture' is a much talked-about issue.

Recently, we have been hearing in the news about the heat waves rising in the European continent, rampant floods in various regions of India and many other Asian and African nations.

Climate is an ever-changing entity and we need to learn how to live and cope with it. Three things are very important in this regard: we should have sufficient data and records regarding the climate change on regional, national and global level; communication to the farmers about the changing weather is crucial; each country should have appropriate storage system and buffer stock of food grains that can be utilized in case of emergencies. Diversity in terms of Agricultural production and practices will also facilitates the adaptation of current Agricultural system for future challenges. Proper and advanced planning and strategies can shape resilience in the face of greater climatic variability. In her concluding remarks she mentioned, “We all are aware about the effect of Climate Change in general, but being able to come together to shoulder the responsibility of developing the associated coping strategies as a frontline stakeholder is a great responsibility”.

The chief guest **Smt. Radhika Rastogi**, in her inaugural address, recollected her experiences of working in Maharashtra on the challenges of shouldering the responsibility of allocating drinking water to the various villages in Maharashtra

Smt. Radhika Rastogi expressed that “Life revolves around the water”. She shared the example of Anna Hazare who implemented 5 principles in his villages (Ralegaon Siddhi); 1. Nasbandhi (family planning,) 2. Charribandi (no unplanned grazing.) 3. Shramadan (Social Work) 4. Nashabandi (No Alcohol) and 5. Raibandi (no cutting of trees) to overcome the drought situation without financial support from the Government. Mr. Anna Hazare trained youth of other villages and asked them to go back and replicate the same. In Hivra Bazar- an adjacent village to Ralegaon Mr. Popat replicated this in the village and today the village is called as village of millionaires. She emphasized that, the usage of traditional knowledge is necessary for solving problems. She mentioned that, we can’t just talk about “Climate Smart Agriculture” but “Climate Smart lifestyle”. Life style must change. We should eat local and seasonal.



**Smt. Radhika Rastogi, IAS,  
Deputy Director General, NIRD&PR, Hyderabad  
addressing the participants**

She mentioned that, there is no scenario when the farmers are being happy it may be bumper or crop failure. Many farmers doesn’t harvest their crop in bumper crop. If we have bumper crop,

we should process. We need to have common facilities for processing. She explained how farmers can process their produce affected by uncontrolled nature with the example of Maharashtra's Grape farmers who dry their affected grapes and make resins and export it and fetch good prices. She also emphasized that, we should incentivize as per the nature of the crops. Indiscriminate extraction of water should be stopped. Water is public property not the private one. We need to have policy frame work to suitable changes. Gender should be taken into consideration when imparting knowledge on agriculture production. Training should be given to the audience who is actually work in the farm fields. In her concluding remarks she mentioned "we need to look at Agriculture as a part of big world. Only then we will be climate resilient and climate smart".

Speaking on the occasion the Guest of Honor **Dr. M. Maheswari** mentioned that, in India, since



**Dr. M. Maheswari, Director in charge,  
ICAR-CRIDA, Hyderabad**

last 5-6 years there has been an increase in the frequency of incidents of natural disaster. These fluctuation affects the livelihood, food production and sometimes life itself. We need to learn how we can cope up with these events. She also mentioned that 37<sup>th</sup> FTF ITT program is a triangular program in the other sense also as three institutes MANAGE CRIDA and WALAMTARI coming together to organize this training program. She also mentioned that, the program will

be interactive and it will be a mutual learning process.

The Guest of Honor **Dr. B Krishna** said that, climate change is not new, even our forefathers experienced it. But due various anthropogenic activities momentum has changed. To tackle it, we need to develop climate resilient techniques and Adapt climate resilient practices in Agriculture. He also mentioned that, the training program is well designed. It covers all the aspects of climate change.



**Dr. B Krishna Rao, Director (Agriculture &  
Research), WALAMTARI, Hyderabad**

The FTF ITT Program Director, **Dr. Mahantesh Shirur** thanked the dignitaries, faculty and participants for attending the inaugural program.





Group photograph of 37<sup>th</sup> FTF ITT program during Inaugural Ceremony

## I. Brief Summary of the Program

The training program was participatory in nature, which included lectures, group discussions, case studies and field visits. Major focus was given to practical aspects along with theory in all the subjects. The subjects dealt were Climate resilient soil and Water management practices for irrigated dry crops, Climate smart soil and water management techniques in wet crops, Climate smart soil and water management techniques in wet & ID crops Field class at R&D Farm, WALAMTARI, Renovation & restoration of community water harvesting tanks through Mission Kakatiya Programme, Water Management is key for sustainable development, Model on Crop Water Requirement for enhancing the on farm water use efficiency- hands on practice, Climate resilient watershed treatment technologies for sustainable production, Micro and piped irrigation systems, Water productivity & Water Use Efficiency of Irrigation Projects of Telangana, Water harvesting structures for climate resilient agriculture. Interactive session on 'Agro climatology and its application for Climate Smart Agriculture', 'Climate resilient technologies for soil Quality and Management', 'Climate Smart Practices implemented in Farmers' Fields', The importance of farm implements and role of Custom Hiring Centers at village level etc. was dealt.

During the training program executives visited IFS & ITK, Ameerpet village, Maheshwaram Mandal, R.R. Dist. Government of Telangana initiatives; Govindapur Watershed, Vikarabad; KVK Adopted village- Gaddamallaihuda, Yacharam Mandal of Telangana State; CRIDA research farm at Hayathnagar and ICRISAT, Hyderabad.



**Water Harvesting Check Dam**



**Integrated Farming System**

The participants were made aware about the impacts of climate change on productivity of agriculture and different resilient technologies available or implemented in Farmer's fields. The lectures and field visits covered aspects on soil, water, crop, pests, animals, socio-economic conditions for Climate Smart Agriculture- the theme selected for the present training program.





### III. Valedictory Ceremony

The 37<sup>th</sup> FTF ITT Program culminated on 1<sup>st</sup> September, 2019 in the presence of Honorable Chief Guest, Dr. K. Alagusundaram, Deputy Director General (Natural Resource Management), Indian Council of Agricultural Research (ICAR); and Mrs. V. Usha Rani, IAS, Director General, National Institute of Agricultural Extension Management (MANAGE). Along with them, the dignitaries Dr. G. Ravindra Chary, Director, ICAR-CRIDA; Er. P. Shyamsunder, Director General, WALAMTARI; and Dr. M. Vanaja, Course Director, ICAR-CRIDA graced the dais. The faculty and staff of MANAGE, CRIDA and WALAMTARI were also present during the event.

**Dr. G. Ravindra Chary** welcomed the dignitaries, the participants and the staff and faculty of MANAGE, CRIDA and WALAMTARI for the valedictory ceremony. He specially appreciated everyone for joining the program on a Sunday. He thanked Chief Guest, Dr. K. Alagusundaram, Deputy Director General, ICAR, New Delhi for visit to CRIDA and felicitating the participants with the certificates. He said that the program at program schedule had a holistic approach. The pedagogical process through which the program started remained the same and more vibrant till the end.



**Dr. G. Ravindra Chary, Director,  
ICAR-CRIDA Hyderabad**

**Smt. V. Usha Rani** in her address appreciated the unique culture of CRIDA where scientists working very hard and taking various activities to combat climate change. She urged the participants to work hard when they go back to their country for the betterment of the farmers. She mentioned that, country is facing opposite situation some parts facing drought and some parts of the country are facing floods. To deal with climate change we need appropriate technology. In India you might have learnt various technology but you need to choose suitable technology your area. Good technology, good extension and good heart and commitments are required to fight



**Smt. V. Usha Rani, IAS, Director General,  
MANAGE, Hyderabad**

with our enemy climate change. She emphasized that, one should eat locally available food and need to grow own food. Enrich the soil, conserve the water and live with nature. It is going to be the real solution for climate change.

**Dr. K. Alagusundaram** in his presidential address, welcomed all the participants to Hyderabad, India. He briefed the participants about the Hyderabad city. He mentioned that, India agriculture



**Dr. K. Alagusundaram, Deputy Director General,  
Indian Council of Agricultural Research (ICAR),  
New Delhi**

took a large turn since 1960's. At the time of independence we were importing the food for free from America. And now we turned the table completely through green revolution. We are the third largest country in food production after America and china.

Through agriculture is a very important profession, but it is in a dangerous situation. Our enemy is climate change, combating the climate change is a problem. Due to climate

change there is heat, drought and floods.  $1^{\circ}\text{C}$  temperature is increased already and it is expected to increase by  $4^{\circ}\text{C}$  by 2100 and this will be serious issue for the agriculture. Not only our crops but also animals, fish will be affected. He also highlighted that, India has investing 100 million us dollars from past 4-5 years on climate resilient agriculture in the project called National Innovations on Climate Resilient Agriculture (NICRA). There are 151 climate smart villages in India. Climate smart agriculture means we are proving inputs that supports combating the climate effect. In concluding remarks he mentioned that, future is bright. Many states in India adopting this Smart village model.

**Er. P. Shyam Sunder** briefed the participants that it is not only important to attend lectures and



**Er. P. Shyamsunder, Director General,  
WALAMTARI, Hyderabad**

practical sessions but to use it in their day-to-day activities in their respective work fields. He appreciate d the role of CRIDA as well as WALAMTARI in catering the needs of Dryland farmers.



**Dr. M. Vanaja**, briefed the 37<sup>th</sup> FTF ITT program report conducted by MANAGE, ICAR-CRIDA and WALAMTARI, Hyderabad from 20<sup>th</sup> August to 3<sup>rd</sup> September, 2019.

The FTF ITT programme Director, **Dr. Mahantesh Shirur** and **Dr. B. Krishna Rao**, Director (Agriculture) WALAMTARI also expressed their views and satisfaction about the training program.



37<sup>th</sup> FTF ITT training participants receiving certificate from the Dignitaries

## 2. Back at Work Plan stories from the FTF ITT alumni:

### Fall Army Worm Management in Malawi through creating Master trainers

**Ms. Kaitano Cathberity Rose** is an Agriculture Extension Development Officer (AEDO) from Thyolo District of Malawi. She attended 31<sup>th</sup> FTF ITT program on "Plant Health Management, Bio-security and Quarantine" held during 27<sup>th</sup> November – 11<sup>th</sup> December, 2018 at National Institute of Plant Health Management (NIPHM), Hyderabad, India.



During the training program, she learnt about Agro-Ecosystem Analysis (AESAs) based plant Health Management practices, ecological engineering for Plant Health Management, plant bio-security, pest risk management (PRA), pest surveillance, bio-Fertilizers, vermicomposting etc.

At the end of the training program, she took "Fall Army Worm monitoring and its management" as back at work plan project. She chose this topic because it's a severe problem in her service area and Malawi in general. Therefore, she realized that appropriate monitoring; surveillance and management activities need to be implemented for decision making and effective control.

**Sensitization:** After gaining knowledge and appropriate skills at NIPHM Hyderabad India, Ms. Rose immediately started implementing the activities as per back at work plan scheduled. She began with awareness campaigns regarding management of fall army worm and it's Integrated Pest Management (IPM) of among the farmers of her area.

Ms. Rose also created awareness among the officials on surveillance, monitoring and management of fall army worm, in order to get support from officials to achieve intended goal of eradicating fall army worm.

**Demonstration:** To show the effectiveness Integrated Pest Management (IPM) in managing the fall army worm, she divided the garden into 3 plots

1. On 1<sup>st</sup> plot she applied IPM practices.
2. On 2<sup>nd</sup> plot she used pesticides
3. 3<sup>rd</sup> plot no treatments. Considered as control

Demonstration results showed that, IPM practices are more effective as compared to pesticides. Thereafter each staff went out to his/her working area to create awareness among the farmers on surveillance monitoring and management of fall army worm. It was stressed that everyone should manage to demonstrate at his /her working area under her supervision.



Maize plant field infested with fall-army worms at Chibwana



Field demonstrations on signs of fall-army worm infestation, control and application of fall-worm pesticides at Chibwana

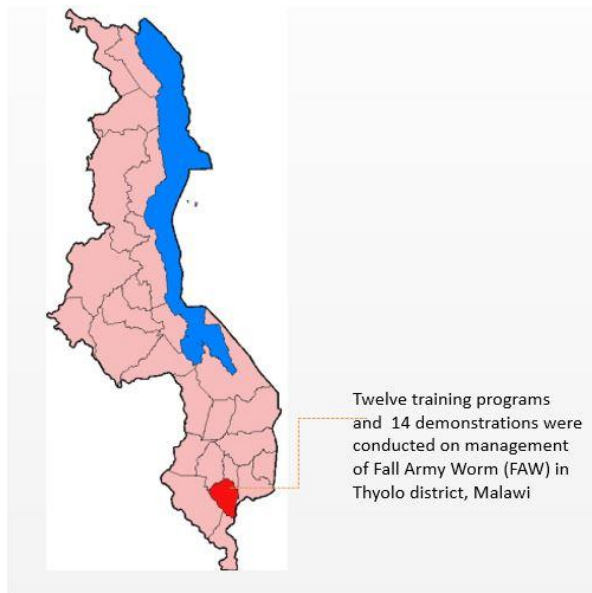


Farmer field-day on integrated pest management



Sensitization meeting of farmers on surveillance, monitoring and management of fall-army worms





## OUTCOMES

- As a master trainer she has trained 14 Officials.
- Sensitized 713 farmers about the methods of effective control of Fall Army Worm.
- The region has witnessed effective control of Fall army worm pest infestation in maize crop.

### **Ms. Kaitano Cathberity Rose**

Agriculture Extension Development Officer

Thyolo District Agriculture Office, P.O.Box22, Ministry of Agriculture,  
Irrigation and Water Development, Thyolo, Malawi

Tel: +265 999684282, Email: [cathynaphiyo@gmail.com](mailto:cathynaphiyo@gmail.com)

## 3. Sneak peek into the upcoming issue of our bulletin

1. Brief report on 38<sup>th</sup> FTF ITT program on “Integrated Technology for Production, Processing and Value Addition in Tuber Crops”
2. Some more stories from Back at Work Plan



### FTF ITT Training Program Overview

Total Number of Training Programs Completed: **37**

Number of executives trained till now: **968**

Male: Female:

Number of Countries covered: **20**

#### **Name of the countries:**

**Asia:** Afghanistan, Bangladesh, Cambodia, Lao PDR, Mongolia, Myanmar, Nepal, Sri Lanka and Vietnam

**Africa:** Botswana, Democratic Republic of Congo, Ghana, Kenya, Liberia, Malawi, Mozambique, Rwanda, Sudan, Tanzania and Uganda

#### **Editor-in-Chief:**

Smt. V. Usha Rani, IAS

Director General

MANAGE

#### **Editor:**

Dr. Mahantesh Shirur

Dy. Director (Agricultural Extension)

MANAGE

#### **Associate Editors:**

Dr. Goldi Tewari, Program Manager, PMU, MANAGE

Ms. Shakera Parveen, Program Executive,  
PMU, MANAGE

#### **Dissemination Support:**

Mr. B. Chinna Rao

Junior Program Executive, PMU, MANAGE

#### **For any queries relating to the program, please Contact following address:**

Program Management Unit (PMU), National  
Institute of Agricultural Extension Management  
(MANAGE), Rajendra Nagar, Hyderabad -  
500030, Telangana, India

Phone number: Office: +91(40) 24016702-06,  
Ext.: 662

Email: [pmu.manage@manage.gov.in](mailto:pmu.manage@manage.gov.in)

Website: [www.manage.gov.in](http://www.manage.gov.in)

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