

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

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1. 40<sup>th</sup> FTF-ITT Program on “Integrated Management Strategies for major crop pests & Diseases in Developing countries” scheduled during 19<sup>th</sup> November – 3<sup>rd</sup> December, 2019 at MANAGE, Hyderabad, India.

### **The Inaugural ceremony**

The 40<sup>th</sup> FTF-ITT Program on “Integrated Management Strategies for major crop pests & Diseases in Developing countries” was scheduled during 19<sup>th</sup> November – 3<sup>rd</sup> December, 2019 at MANAGE, Hyderabad, India. A total of 26 participants (17 male and 9 female) from eleven countries in Africa and Asia; Bangladesh, Botswana, Cambodia, Kenya, Lao PDR, Nepal, Malawi, Sri Lanka, Mozambique, Myanmar and Uganda actively participated in the training.

The training started on 19<sup>th</sup> December, 2019. On the eve of inauguration ceremony the Chief Guest **Mr. Mustapha El Hamzaoui, Director, Food Security, USAID, India** referred the participants regarding the potentiality of maize production in the African and Asian countries and the scope and need of FTF ITT training at MANAGE. The Director General, National Institute of Agricultural Extension Management (MANAGE), Hyderabad **Smt. G. Jayalakshmi, IAS** urged the participants to emphasize on the “Back at Work” plan, a unique hand-holding feature of the FTF ITT training program. She called upon the participants to address the problems of infestation of Fall Army Worm of the respective country and to promote integrated management strategies for major crop pests and diseases. The Program Directors Dr. Mahantesh Shirur, National Institute of Agricultural Extension Management (MANAGE), Hyderabad, Dr. Ravi G., Director, NIPHM, Hyderabad, Dr. J. Chandra Sekhar, Director, DMR, Hyderabad and Mr. Vamsidhar Reddy T.S., Development Assistant Specialist (Agriculture), USAID, India also presented their annotations during the inaugural program.



Group photograph of the Participants with Chief Guest, Mr. Mustapha El Hamzaoui, Director, FSO, USAID, India, Mrs. G. Vijayalakshmi IAS, Director General, MANAGE, Dr. Mahantesh Shirur, Dy. Director (Agril.Extn.), MANAGE, Dr. G. Ravi, Director, NIPHM, Dr. J.C. Sekhar, Director, ICAR-IIMR, WNC, Hyderabad, Mr. Vamshidhar Reddy T.S., Development Assistant Specialist (Agri), USAID-India, and Faculty Members of MANAGE



*"India has long term relationship of 70 with USAID. This has transformed over the year's right from green revolution. In this move USAID came up with initiative called FTF ITT training program likewise this training program is designed to address the issues of FAW of maize in the developing countries".*

**- Mr. Mustapha El Hamzaoui,  
Director, Food Security Office, USAID**

*"Maize is an important staple crop in Africa and Asia. Any loss in the maize production will have implications on both human and animal food consumption system. The emergence of Fall Army Worm (FAW) has posed major challenge to maize production across the globe. Integrated strategies are to be promoted for effective control of this menacing pest. I wish the trainees of 40<sup>th</sup> FTF ITT will further the efforts in this direction".*

**- Smt. G. Jayalakshmi, IAS,  
Director General, MANAGE**



*Dr. J. Chandra Sekhar, Director, ICAR-IIMR, WNC was thankful for including IIMR as partner institution. He expressed confidence about this is an important initiative in enabling the participants to learn about the effective pest and disease management strategies in maize particularly about FAW.*

*Dr. G. Ravi, Director, NIPHM, was thankful to MANAGE and welcomed the participants of FTF training program then briefed the incidence and infestation of Maize Fall Army Worm in the developing countries and briefed the new adoption and advanced technique to control FAW and briefed about the program theme to be covered at NIPHM.*



*Dr. Mahantesh Shirur, Program Director, MANAGE presented an overview of FTF-ITT program and its journey from the beginning to this date. He appreciated the partnership efforts of NIPHM and ICAR-IIMR. He thanked USAID for supporting MANAGE as lead institute in the implementation of FTF ITT program.*

## 2. Brief Summary of the Program

The training program is designed with the following objectives:

- To orient the participants about the present status of major cereals and the challenges in cereal production in India
- To orient the participants about pest management strategies in major cereal crops in developing countries
- To make participants aware about “Maize Fall Army Worm” and its effective management
- Experiential learning about IPM practices for Maize and other major cereal crops

The 40<sup>th</sup> FTF ITT training program on “Integrated Management Strategies for major crop pests & Diseases in Developing countries (with special focus on Fall Army Worm)” was conducted in three phases; the first phase was conducted at the MANAGE, Hyderabad which focused on the overview, status of Fall Army Worm in maize and Indian experiences and innovations. Second phase of the training on research and development, practice and on the field learning was held at ICAR-IIMR, Hyderabad. The institute in India dedicated for research in Maize, under the umbrella of Indian Council of Agriculture Research (ICAR). For the third and final phase of the training, the disease management strategies in major crops of developing countries through laboratorial learnings, field exposure to the participants by visiting CIMMYT, Pattancheru, Hyderabad and Corteva Agriscience, Medak, Telangana.

**National Institute of Plant Health Management (NIPHM)** was established in order to bestow greater functional flexibility, and broader reach in delivery against the emerging challenges in the field of Plant Health Management. It is a National level institute under the administrative control of the Department of Agriculture & Cooperation, Ministry of Agriculture & Farmer's welfare, Government of India established in the year 1966 as Central Plant Protection Institute (CPPTI) at Hyderabad. The Institute was rechristened subsequently as National Plant Protection Training Institute (NPPTI). It became an autonomous body in the year 2008 with the expanded scope of promoting environmentally sustainable Plant Health Management practices in diverse and changing agro-climatic conditions and Plant Biosecurity Management and Pesticide Management through capacity building programs, besides providing inputs for policy formulation on Plant Health Management, Plant Biosecurity, Invasive Alien Species, market access, Pesticide Management etc. at state and national level.

The Indian Institute of Maize Research (ICAR-IIMR) started in 1957. It is a constituent of the Indian Council of Agricultural Research (ICAR) – an autonomous organization under the Department of Agricultural Research and Education (DARE), Ministry of Agriculture, Government of India. The IIMR is the only institute of the country exclusively mandated for maize research and is entrusted with the overall responsibility of research, coordination and management of the multidisciplinary programs on maize improvement at national level and maintaining linkages with international programs. The institute also undertakes scientific human resource development programs involving national and international agencies/organizations.

The training course curriculum was designed by MANAGE in consultation with NIPHM and ICAR-IIMR. The training comprised of **30 classroom lectures and 4 case studies & field visits**. The lecture topics were in five broader areas as tabulated below:

| Sl. No. | Broad areas of Training lectures  |
|---------|---|
| 1.      | Overview of Maize in India  |
| 2.      | Biology, symptomatology, identification and scouting for Fall Army Worm                                     |
| 3.      | Semio chemicals , Biological, IPM and other eco-friendly approaches in the management of Fall Armyworm      |
| 4.      | Quality control pesticides , Mass production of Bio fertilizers , plant biosecurity and plant quarantine    |
| 5.      | Pest surveillance and recent incursions of pest and diseases, Pest Risk Analysis-Asian and African scenario |

The senior scientists of national institutions like National Institute of Agricultural Extension Management (MANAGE) Indian Council of Agriculture Research – Indian Institute of Maize Research (ICAR-IIMR), National Institute of Plant Health Management (NIPHM) and experts from the research and development department of Corteva Agriscience, Agriculture Insurance Company and Senior policymakers from the concerned field with training thematic area interacted with participants during the training sessions. All the resource persons immensely contributed in providing the lecture notes which were shared with the trainee executives at the beginning of the training.

### 3. Exposure Visit to i-hub ICRISAT, Pattancheru, Hyderabad

On 25<sup>th</sup> November, 2019 the participants of FTF ITT were taken a visit to incubation centre of ICRISAT. It is a non-profit, non-political organization that conducts agricultural research for development in the drylands of Asia and sub-Saharan Africa. ICRISAT conducts research on five highly nutritious drought-tolerant crops: chickpea, pigeon pea, pearl millet, sorghum, and groundnut

ICRISAT envisions a prosperous, food-secure and resilient dryland tropics. To achieve this, its mission is to reduce poverty, hunger, malnutrition and environmental degradation in the dryland tropics. It approaches



Participants accessing Plantix app during visit at i-hub, ICRISAT

this through partnership-based international agricultural research for development that embodies Science with a Human Face.

Mrs. Kanika Singh, Senior Scientific Officer, Digital Agriculture at i-hub, ICRISAT has briefed the session on Digital Agriculture and its significance in the modern agriculture technology. Then also briefed about the usage of android AI technology through mobile app

called Plantix by accessing lively and taught to the participants by hands on learning.

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Participants of 40<sup>th</sup> FTF ITT International Training Program on “Integrated Management Strategies for Major Crop Pests & Diseases in Developing Countries (With special focus on Fall Army Worm)” during visit to ICRISAT, Hyderabad

### Exposure visit to the CIMMYT (International Maize and Wheat Improvement Center), Hyderabad

On 25<sup>th</sup> November, 2019 after the i-hub visit of the participants were taken to the International Maize and Wheat Improvement Center. It envisions a world with healthier and more prosperous people -free from the threat of global food crises - and with more resilient agri-food systems. The Center is known by its Spanish acronym, CIMMYT. It is a non-profit international agricultural research and training organization focusing on two of the world’s most important cereal grains: maize and wheat, and related cropping systems and livelihoods.

Dr. Jagadish Jaaba, Entomologist, CIMMYT had briefed about the genesis, biology, life cycle of Maize Fall Army Worm and their management in chemical and biological control. He also taught the participants about symptomology of infestation of FAW in maize.



Participants are shown the identification of FAW with its egg mass



Participants are shown with the lifecycle of FAW and its symptomology

## Exposure visit to Corteva Agri Science, Hyderabad

The participants of 40<sup>th</sup> FTF ITT international training program had visited CIMMYT, ICRISAT and Corteva Agriscience on 25<sup>th</sup> November 2019. Dr. Pankaj Rajaput, R&D Site Lead and Dr. Mayank Yadav, R&D–Integrated Field Science Leader, Corteva at Hyderabad. He explained the genesis, lifecycle and biology of Maize Fall Army Worm to the participants through classroom presentation as well experimental field visits to research plots of Corteva Agriscience.



Participants engaged in laboratorial hands on experience at the research sites of Corteva Agriscience, Medak and Hyderabad





## Nutri Cereals Conclave, HICC, Hyderabad

Nutri-cereals conclave, is a flagship event of Nutrihub-IIMR, for creating and spreading awareness about



millets and other nutricereals. The Nutri-Cereals Conclave version 2.0, a National level annual event was organized on November 29<sup>th</sup> & 30<sup>th</sup> 2019 at Hyderabad International Convention Centre (HICC), Hyderabad. The aim of the conclave was to promote startups in food, agri, nutri tech ecosystem, enhance opportunities in millets value chain, webbing network among investors and

entrepreneurs and spreading awareness about millets. The day one on the theme **“Food Tech, Agri Tech, Nutritech Convention-2019”** and day two on the theme **“To encompass the investments in Agri / Food business ecosystems”** sessions were organized focusing on Nutricereals for Nutritional security through startups.

The participants of 40<sup>th</sup> FTF ITT attended the second day (30<sup>th</sup> November, 2019) of the Nutricereals Conclave where the startups in the field of millets and challenges and entrepreneurial scenario in the field of cereals. The 2<sup>nd</sup> day of the event was inaugurated by the Sri. T. Harish Rao, Hon’ble Finance Minister, Govt. of Telangana. The inaugural session was followed by pitching session by Dr. B. Dayakar Rao, Chief Executive Officer (CEO), NIELAN TBICAR-Indian Institute of Millets Research (IIMR), Hyderabad. The participants are exposed to the new ideas and interventions which can be tried in their country set up with respect to the millets and cereals value addition.



Participants of 40<sup>th</sup> FTF ITT during Nutri Cereal Conclave at HICC, Hyderabad



## 4. Story from Back at Work Plans

### “Poverty eradication through women groups in Uganda”

Mr. Gumisiriza Dominic Joram is Agriculture Tutor from Uganda, was trained under Feed The Future India Triangular Training Program on “Entrepreneurship Development among Rural Women” during 13<sup>th</sup> - 22<sup>nd</sup> November, 2017 at St. Augustine Training Institute, Nsambya, Kampala, Uganda. Mr. Dominic was impressed by the model of collective action for better livelihood of women during his training at Kudumbashree.



After successfully completing his training, he conceived the idea of women collectivization and self-employment through Self-Help Groups (SHG) and decided to implement the same in his institution among



students, teachers and non-teaching staffs. Initially he organized sensitizing programs in the villages to form a group, after formation few groups, group members sensitized other people to form groups. He formed 16 women groups, 7 groups in institutions and 9 in the neighboring villages. Out of these groups 13 are running successfully with their projects.

Under his guidance, student groups are growing vegetables, fruits, rearing piggery and apiary. Neighboring village groups including those HIV patients and visually impaired persons are also undertaking the works like handicrafts, goat rearing, piggery rearing, apiculture, ghee making, brick laying, and poultry to support their livelihood.

All members of the groups, fine-tuned their skills with the help of Mr. Dominic. He trained them on best agricultural practices, financial management and leadership development and they efficiently made



use of available resources such as manpower, land and time to achieve their objective of combat poverty among families, to promote better methods of agriculture and to increase family income among women.

As a result of these activities, women are becoming financially Independent, more confident and many of them leading the groups their own without any assistance from Mr. Dominic.

| Sl. No. | Group Name  | No. of Members | Activities initiated by the group                   |
|---------|---|----------------|---|
| 1.      | Katooma Women's Group                             | 15             | Goat rearing, Ghee making and Horticulture.         |
| 2.      | Kanyigiri Women's Group                           | 16             | Piggery, Apiculture And Poultry                     |
| 3.      | Nyakayojo Women's Group                           | 15             | Brick laying and Horticulture                       |
| 4.      | Nyakayojo Women's Group                           | 13             | Horticulture and piggery.                           |
| 5.      | Nyakasa Women's Group                             | 13             | Horticulture and piggery                            |
| 6.      | Akashanda Women's Group                           | 12             | Piggery, poultry and vegetable growing.             |
| 7.      | Kibingo Women's Group                             | 15             | Piggery Goat Rearing And Vegetable Growing.         |
| 8.      | Bishop Stuart core PTC women group                | 10             | Piggery.  |
| 9.      | Bishop Stuart core PTC female students group      | 70             | Piggery, Apiculture, Horticulture                   |
| 10.     | Mamita Institute female students group            | 20             | Piggery, vegetable growing, goat and cattle rearing |
| 11.     | St. Georges Ibanda Core PTC female students group | 60             | Piggery, vegetable growing, goat and cattle rearing |
| 12.     | St. Paul's primary school female staff group      | 10             | Piggery and horticulture                            |
| 13.     | Coloma primary school female group                | 12             | Practice weaving baskets, mats and table clothes    |



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**5. Sneak peek into the upcoming issues of the bulletin**

1. Valedictory of the 40<sup>th</sup> FTF ITT Program on "Integrated management strategies for major crop pests and Diseases in developing countries".
2. Some more success stories from the Back at Work
3. Announcement of ITEC Programs of MANAGE

### FTF ITT Training Program Overview

Total Number of Training Programs Completed: **40**

Number of executives trained till now: **1047**

Male: Female: **635:412**

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

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