

Feed The Future India Triangular Training (FTF ITT) Program

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1. International Training Program on "Modern Dairy Technology, Management and Cooperatives" organized during 5th – 19th February, 2019 at ICAR-National Dairy Research Institute (NDRI), Karnal, Haryana, India

I. The Inaugural Ceremony

32nd FTF ITT Program on "Modern Dairy Technology, Management and Cooperatives" was inaugurated on 5th of February 2019 at ICAR-NDRI, Karnal.

The program was inaugurated by Dr. R.R.B. Singh, Director, NDRI by lightening of ceremonial lamp. Dr. K.S Kadian, Head, Department of Extension, Dr. Gopal Sankhala, program coordinator, Dr. B.S Meena, the program co-coordinator were present the ceremony.



FTF ITT Program on "Modern Dairy Technology, Management and Cooperatives" Inaugurated by Dr. R.R.B. Singh, Director, ICAR-NDRI, Karnal



Dr. R.R.B Singh, Director, ICAR-NDRI, Karnal addressing the participants

Dr. R.R.B Singh felicitated and welcomed all the executives to the program. In his inaugural address he mentioned how the innovative aspects in dairy technology developed at NDRI, Karnal are changing the way milk and other dairy products are being produced and the benefits are far-reaching.

Dr. K.S Kadian, Head, Department of Extension, NDRI provided a brief note about the genesis and overview of the program with description about topic of the training program.

Dr. Gopal Sankhala, program coordinator for this program at NDRI, Karnal briefed the audience about the journey of the three training programs under FTF ITT program held at NDRI, Karnal with the emphasis on the key role of the institute in understanding the dairy and related technology in the country. Vote of thanks was extended by **Dr. B.S Meena**, the program co-coordinator for the current FTF ITT program at NDRI, Karnal.

II. Brief Summary of the Program

A total of 29 participants (6 female and 23 male executives), from eight Asian and African countries namely, Afghanistan, Cambodia, Myanmar, Malawi, Kenya, Liberia, Tanzania and Uganda participated in the program.

The training program is designed with the following objectives:

- ❖ To acquaint the participants with knowledge in principles, planning and technical approach for establishing commercial dairy farms, processing of milk and development of marketing network
- ❖ Development of value chain in milk production, processing and marketing to minimize the marketing channels
- ❖ Establishment of linkage among the various stakeholders to safeguard the interest of Producer as well as consumers

The training program was participatory in nature, which included lectures, group discussions,



FTF ITT Participants in the Practical Session

case studies and field visits. During the program, executives visited Punjab State Cooperative Milk Producers' Federation Limited (MILKFED), Verka, Mohali, exposure visit to progressive farmers (entrepreneurs) (Butana village and Naru Khedi village) Participants Farmers interaction in village, and also visited Self Help Groups (Dairy Entrepreneurs) in Taprana and Apritpur Kalan village. Participants had a great round of interaction with the farmers in the villages.

III. Valedictory Ceremony

Program was culminated on 19th February, 2019 in the presence Chief guest Dr. Inderjeet Singh, Director, Animal Husbandry, Punjab; Guest of Honor, Mr. Mustapha EL Hamzaoui, Director, Food Security Office, USAID, India; Dr. R.R.B Singh, Director, NDRI, Karnal and Dr. Mahantesh Shirur, Deputy Director (Agricultural Extension), MANAGE.



Group photo of valedictory Ceremony of 32nd FTF ITT Program

2. 33rd FTF ITT Program on "Seed Production, Processing and Commercialization" organized during 12 -26th February, 2019 at National Seed Research & Training Centre (NSRTC), Varanasi, Uttar Pradesh, India

The Inaugural Ceremony

33rd FTF ITT Program on "Seed Production, Processing and Commercialization" was inaugurated on 13th February, 2019 at National Seed Research & Training Centre (NSRTC), Varanasi. The program was inaugurated by honorable Chief Guest, Dr. Mangala Rai, Former Director General, ICAR, New Delhi. Dr. Arvind Nath Singh, Director, National Seed Research



& Training Centre (NSRTC) and Dr. Mahantesh Shirur, Dy. Director, MANAGE were also present during the event.

Dr. Arvind Nath Singh, Director, NSRTC in his inaugural address highlighted the importance of seeds and their testing viz., germination, vigor and viability along with the role of Central Seed Testing Laboratory.

Dr. Mangala Rai in his inaugural address highlighted the methods of production of breeder seed and hybrid seed of various crop like maize, mustard paddy, banana. Also, he emphasized on fishery and the agricultural practices in different countries. He shared his life experiences with the trainees. He also focused on adoption of the isolation distance methods to increase the quality of seed and mentioned that seed is not only important for farmer in agriculture but also it acts as vehicle to carry new technologies.



Dr. Mangala Rai, Former Director General, ICAR, New Delhi addressing the participants

Speaking on the occasion, Dr. Mahantesh Shirur, Dy. Director (Agricultural Extension), MANAGE said with the organization of the International Training Program on “Seed Production, Processing and Commercialization” – the FTF ITT program has addressed the pressing need of capacity building and training on Seed Production, Processing and Commercialization among the officials of partner countries in Africa and Asia.



**Dr. Mahantesh Shirur, Dy. Director, MANAGE,
Addressing the participants**

He praised the Director and staff of NSRTC, Varanasi for their initiative to organize this FTF ITT Program and become a new entrant as training partner under FTF ITT Program organized by MANAGE.



Group photo of Inaugural Ceremony of 33rd FTF ITT Program

I. Brief Summary of the Program

Training Program on “Seed production, Processing and Commercialization” was organized by NSRTC with the main aim of providing in-depth knowledge in quality Seed production and how to plan suitable marketing strategies to personnel who are involved in seed development and quality control programme and stakeholders of seed Industry. The programme helped in building capacity of the FTF ITT International participants on the areas related to seed production, processing, testing, certification, quality control and marketing. The training programme was designed with the following objectives & key components:

- ❖ Build capacity of officers, executives and managers in the area of quality seed production.
- ❖ Understanding the post-harvest, handling and management of seeds.
- ❖ Understanding the importance of seed testing.



- ❖ Awareness about the opportunities and challenges in seed certification and Quality control.
- ❖ Understanding of market information and marketing decision.
- ❖ Exposure to best marketing practices and seed supply chains.

executives), from nine Asian and African countries namely, Afghanistan, Cambodia, Myanmar, Mongolia, Malawi, Kenya, Liberia, Tanzania and Uganda participated in the program.

The program design was participatory in nature. The sessions delivered through lectures, group discussions, case studies, and field visits. Experiential learning methodology was effectively incorporated in the program. During the program



executives visited Hybrid Seed Production Plot- IRRI, Seed Processing Plant- NSRTC, National Seed Congress-2018-19- BHU, Varanasi, ICAR-Indian Institute Of Seed Science (IISS), Mau, Uttar Pradesh. Participants had hands-on experience on maintenance of seed processing plant, estimation of moisture content in seed sample, testing of physical purity and seed

germination, seed vigor test and seed viability test.

I. Valedictory Program

Mrs. V. Usha Rani, Director General, MANAGE in her speech highlighted the way India succeeded in sustainable food production through high yielding varieties and quality seed which were resulted from Green Revolution by Indian scientists along with the contributions of Norman Borlaug. She also emphasized on the need of food and opined that there is no meaning of freedom without food. Food is the basic requirement of life. To feed the ever increasing population, strengthening of agricultural sector is need of the hour and seeds hold the role of key component. Through using quality seeds, India not only became sustainable but also started exporting many agricultural products. Five thousand scientists and twenty thousand extension officers in India are actively working in agricultural area only for its betterment. Training of farmers and extension workers determine the progress in agriculture.



Mrs. V. Usha Rani, IAS, Director General, MANAGE addressing the participants



Mr. Mustapha EL Hamzaoui, Director, Food Security Office, USAID, India addressing the participants

Mr. Mustafa in his address mentioned that the seed is the skeleton for the farmers. India has got success in achieving Green Revolution through quality seed. He also opined that Seed Law Enforcement plays a major role in checking adultery in quality seed.

Program was concluded on 26th of February in the presence of Chief Guest Mrs. V. Usha Rani, IAS, Director General, MANAGE, Mr. Mustapha EL Hamzaoui, Director, Food Security Office, USAID-India, and Dr. Arvind Nath Singh, Director, National Seed Research & Training Centre (NSRTC), Varanasi, Uttar Pradesh, India.



Dr. Arvind Nath Singh welcomed all the executives and dignitaries to the program and presented the highlights of the 15 days training programme.

3. International ITEC Training Program on “Computer Applications in Agriculture” scheduled during 18th February – 6th March, 2019 at MANAGE, Hyderabad

Inauguration

The International Training Program on "Computer Applications in Agriculture" under Indian Technical and Economic Cooperation (ITEC) Program was inaugurated on 19th of February, 2019 at MANAGE, Hyderabad.

Twenty three delegates representing Ministry of Agriculture and Allied Departments and Agricultural Universities from Burundi, Cambodia, Kazakhstan, Kenya, Malawi, Mongolia, Nigeria, Sri Lanka, Sudan, South Sudan, Tanzania, Tajikistan and Vietnam, are participating in the training program at MANAGE.



Group photo of Inaugural Ceremony of ITEC program

The program was inaugurated by **Dr. P. J. Narayanan**, Professor & Director, IIIT, Hyderabad by lightening of ceremonial lamp and **Smt. V. Usha Rani, IAS** Director General, MANAGE and **Dr. Saravanan Raj**, Director (Agricultural Extension), MANAGE were present in the inaugural program.

Smt. V. Usha Rani, IAS welcomed all the participants to the program. In her welcome address she emphasised that every country is great. India being the oldest recorded civilization on earth



Mrs. V. Usha Rani, IAS, Director General,
MANAGE addressing the participants

as always prioritized knowledge over any other worldly position. Indian culture aims for universal peace and believes in sharing of knowledge and wisdom with all. She also mentioned farmers in all developing countries face almost the same problem. Lack of information is one of those. Advent of internet and computer based technologies can be a promising solution for this problem. The entire world has become global village. In India as well we have web portals in almost every departments. We also have farmer's portals and many other initiatives through which farmers have easy access to agricultural information. She urged the participants to make best use of their time during the training in India and share their experiences and learnings when they go back to their home countries.

The Chief Guest Dr. P. J. Narayanan in his inaugural speech, mentioned that computer can play important role in managing available resources and reducing the damages. He highlighted how



Dr. P. J. Narayanan, Director, IIIT
addressing the participants

computers changed over the time. Earlier computers used to be big and less powerful, now computers are small but more powerful. He also mentioned that data analytics and artificial intelligence (AI) is the need of today. He explained through an example of google search history, how it analyses our interests and provide the suggestions. Similarly it will be very useful if the same can be done for agriculture.

I. About this training program

The main role of the training program is to equip policy makers, administrators, researchers and field level officials from different countries and strengthening their technical and economic capacity regarding the concerned theme.

Objectives of the training program were to build capacity of the participants to understand the following:

- ❖ To know the role and importance of the computer application in agriculture.
- ❖ To understand the tools and modules of computer applications in agricultural extension scenario for sustainable agriculture development.
- ❖ To orient the participants to latest ICT innovations used in agriculture extension system in India other countries.
- ❖ To develop an action plan for operationalization of the concepts learnt during the training program.

Expected learning outcomes from the course

- ❖ Enhanced knowledge and understanding of participants about India's experience in use of computer application in agriculture.
- ❖ Improved practical knowledge of participants on innovative and emerging trends of ICT applications in agriculture extension.
- ❖ Help in making effective extension strategies for using the ICT initiatives in sustainable agriculture development.

Training program is participatory in nature. Program involved theory, practical sessions, case studies and study visits. During the training program participants visited International Institute of Information Technology (IIIT), Farmers Call Center, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Agricultural produce market committee (APMC) and ICAR- Indian Institute of Rice Research (IIRR) at Hyderabad.



Participants during the study visit to IIIT, Hyderabad and Farmer Call Centre, Hyderabad

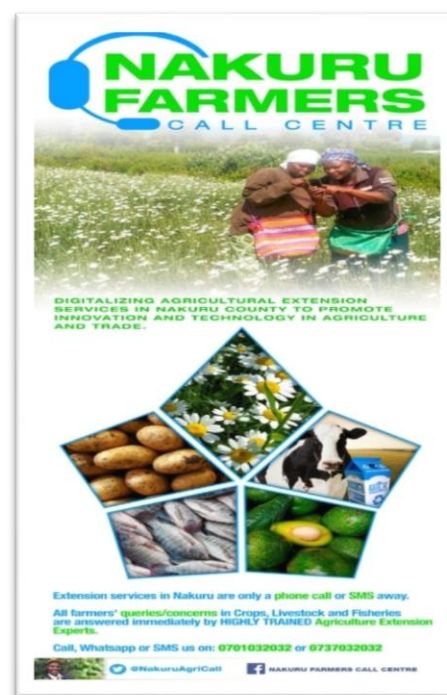
4. Back at Work Plan stories from the FTF ITT alumni:

Mrs. Shelmith Waruguru Mucoki is one of the participant of FTF ITT program on “New Dimensions in Agriculture Extension Management” at MANAGE organized during 6th January - 6th March, 2013.



During the training period at MANAGE, she attempted tiny initiatives in agriculture Extension system that would make a difference among farmers and that needed no funding to implement but required 3 things, knowledge, skills and the right attitude. After the training at MANAGE, she shared her back at work report with Ministry of Agriculture, Kenya and Livestock and Fisheries Nakuru County Officials and a team from Egerton University and started the following projects:

1. Established kitchen garden with urban and peri-urban farming techniques which she learned during the field visit at Vegetable and Fruit Promotion Council Kerala (VFPC), Kochi and at IARI in New Delhi, India. She learnt improved kitchen garden establishment techniques and incorporated it with other Kenyan techniques like using empty small poultry feeds gunny bags which are plenty and cheap compared to the high cost of clay pots.
2. Trained all the Sub-County staff on the topic ‘Urban and peri-urban farming experience in India’. She established a plot with these techniques outside the ministry office for training staff and farmers who visited the office. Same kitchen garden techniques have been transferred to farmers in various villages. Kitchen garden demonstrations competitions and kitchen garden field days have been conducted for 3 years in 7 sites covering 300 trained farmers.
3. In June 2018, she established The Nakuru farmers call Centre -ICT -Mobile use in agriculture information dissemination to farmers through Nakuru farmers call Centre. Now farmers can call/ SMS, send photos or questions through WhatsApp, Twitter and Facebook. This farmer’s call center is supported by the county government of Nakuru which is in the process of making the call center toll free. It is the only one of its kind in Kenya.
4. She also wrote two research papers on her experiences from India along with her supervisors.



Outcomes:

- Established kitchen garden with urban and peri-urban farming techniques
- Trained 7 officers and 300 farmers on urban and peri-urban farming experience in India
- Established the Nakuru Farmers call Centre in Kenya
- Two papers published

Mrs. Shelmith Waruguru Mucoki

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5. Media Outreach:

32nd FTF ITT Training Programme on "Modern Dairy Technology, Management and Cooperatives" in Press

33rd FTF ITT Training Programme on "Seed Production, Processing and Commercialization" in Press



6. Glimpse of upcoming issue of bulletin

Announcement of upcoming programs

- Many other stories from Back At Work Plan
- Brief report on 34th FTF ITT Program on "ICT Applications in Agricultural Extension Management" (Farmers Call Centre) during 11-25th March, 2019 at National Institute of Agricultural Extension Management (MANAGE), Hyderabad, Telangana, India

FTF ITT Training Program Overview

Total Number of Training Programs Completed: **33**

Number of executives trained till now: **853**

Male: Female: **512:341**

Number of Countries covered: **20**

Name of the countries:

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

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

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