**International Training Program**

**On**

**Agro technology in cotton, beans, onion and sugarcane for the participants from Myanmar**

**1. Background**

In Myanmar, rice is most important staple crop. Besides, paddy, cotton, beans, onion and sugarcane are important for the economy of the nation. Myanmar agriculture will greatly benefit with the imporoved agro-technology application in cotton, beans, onion and sugarcane. The officials and technologists from Myanmar can be trained at MANAGE Hyderabad with the help from ICAR-Directorate onion and Garlic research, Nashik, ICAR-Central Institute for cotton research, Nagpur, ICAR-Indian Institute of Horticulture Research, Bangalore, Prof, Jayahsankar Telangana State Agriculture University, Hyderabad and Konda Laxmaniah University of Horticulture University, Siddipet/Hyderabad. The program will be organised under the umbrella of Indian Technical Economic Cooperation (ITEC) program of the Ministry of External Affairs, Government of India.

**2. Objective**

The main objective of the proposed training is to create a forum for discussion on the dissemination of knowledge and technologies on cotton, onion, beans and sugarcane, strategies for value addition, and importance of establishing a network of breeders, food processors, farmers, businessmen, researchers, and scientists from Myanmar.

**3. Duration, Venue and Schedule**

The duration of the programme is two weeks/ 15 days and will be scheduled as decided by the Ministry of External Affairs and with the approval of Ministry of External Affairs. The pgoram shall be conducted offline at National Institute of Agricultural Extension Management, Hyderabad.

**4. Participants**

1. Officers and technologists,
2. Entrepreneurs in Food Processing Industries
3. Progressive farmers
4. Opinion makers in Food and Beverage Sector
5. Academicians and Researchers
6. Representatives from Governmental and Non-Governmental Bodies

**5. Tentative Programme Schedule**

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| **Day - 1** |
| Registration |
| Inauguration |
| Icebreaking – Interactive Session |
| Pre-Training Test |
| Overview on cotton, beans, onions and sugarcane and design of training |
| Recent agrotechnologies in cotton  |
| Cotton based cropping systems and their impact on farmers income |
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| **Day- 2** |
| Sustainable cotton farming for income enhancement of farmers |
| Good harvesting practices for hihger yield in Cotton |
| Safe handling and use of agrochemicals in plant protection measures in Cotton |
| ICT based expert system in cotton for climate resilient production  |
| **Day -3** |
| **Field Visit** |
| **Day - 4** |
| Bt. cotton: agrotechnology for ensuring higher economic yield |
| Indian Cotton Industry : a case study  |
| Export Potential in cotton to enhance farmers income  |
| Marketing policies and economic interest in cotton  |
| **Day - 5** |
| Beans production- National and International scenario |
| Preplanning advanced crop production technologies in beans  |
| Crop improvement via bio-fortified beans and value addition  |
| Collective marketing in beans for enhancing income to farmers  |
| **Day - 6** |
| Visits to places of cultural and historical significance  |
| **Day- 7** |
| Sunday |
| **Day - 8** |
| Nutritional value and marketability of beans through research and value chain  |
| Safe handling and effective use of agrochemicals in plant protection measures |
| Climate smart agriculture practices for post-harvest handling and storage of beans  |
| Export potential of beans from India & Myanmar  |
| **Day - 9** |
| Agro-techniques of onion cultivation in tropical and sub-tropical regions of the country |
| Advanced technologies on abiotic and biotic stress management in onion  |
| Integrated nutrient management in onion |
| Supply chain management of onion in India  |
| **Day-10** |
| Field Visit |
| **Day-11** |
| Techniques of Seed production and multiplication technology in onion |
| Precision farming protocols to enhance factor productivity in onion  |
| Advances in post-harvest handling and storage management in onion |
| Competitive assessment of onion market and export potential of onion from India & Myanmar  |
| **Day-12** |
| Advanced techniques of seed cane production and multiplication  |
| Agro-techniques and advanced production technology (Mechanization) in sugarcane cultivation in tropical and sub-tropical regions of the country:  |
| Water management in sugarcane for economizing use of irrigation water  |
| Physiological and bio-chemical aspects for yield improvement |
| **Day-13** |
| Integrated communication strategy for enhancing cane acreage and yield in sugarcane mill zone areas  |
| Sugarcane development strategies in sugar mill zone areas : Post-harvest management of sugarcane  |
| Crop diversification in sugarcane production system for maximizing system yield and profit |
| Biotic and abiotic stress management in sugarcane with aim of export potential  |
| **Day-14** |
| BACK AT WORK PLAN |
| Post-Training TestReview and Feedback of the Training Programme |
| Valedictory  |

**6. Training Outcome**

1. Understand the domestic and international market scenario for cotton, beans, onion and sugarcane.
2. Transfer and get knowledge and technologies for promoting cotton, beans, onion and sugarcane as a promising commercial crop
3. Set up strategies to adopt technologies for best use of cotton, beans, onion and sugarcane, primarily through a practical and farmer-friendly supply chain creation, value addition and marketing and boost internal revenue of the state.

**Additional details for uploading on ITEC portal:**

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| Educational qualifications of candidates | Graduates and Post graduates in agricultural science or allied sciences |
| Work experience (required) if any | Working experience in the field of agriculture and rural development for minimum 5 years is desired |
| Minimum age | 30 years |
| Maximum age | 50 years |
| Target Group (level of participants, target ministeries or deptt., etc.) | Middle level Officers from Department of Agriculture, Non-Governmental Organisations, Farmer producer Company or Universities working in Agriculture sciences |
| Number of days of local trips | 5 (Tentative) |
| Number of days for outstation trips | 0 |
| Number of nights for outstation trips | 0 |
| Places to be visited | Hyderabad, Golkonda, Siddipet |
| Mode of transport | AC Bus/ AC Train |
| Transportation charges (approx.) | 5000/- per candidate |
| Accommodation charges, if hotel is required to be hired | NA |
| Entry ticket charges | 4500 per candidate |