

PREAMBLE

The nutrition, food and fodder security with available resources and changing climatic conditions are the biggest challenges in agriculture. Food habits and needs of the people are changing fast with their lifestyle. Millets are potential crop to grow well in harsh environments unlike fine cereals, wheat and paddy. It is an important staple food and, fodder for livestock population, especially in resource-poor and semi-arid regions. Millets including sorghum are the principal sources of energy, protein, vitamins and minerals for millions of the poorest people in these regions. Recently, millets emerges as a source for bio-fuel and different value-added food products. Though the area under millets in India has declined, the average productivity has increased mainly due to adoption of improved production and protection technologies by the farmers.

Adoption of technologies by the farmers is a key component in agricultural development. Several promising technologies are available in laboratories of the research institutes. However, low productivity, susceptibility to biotic, abiotic factors, timely use of inputs, crop management, marketing and its economics are the major concerns in millets cultivation. To exploit the potential of the available promising technology(s) and overcome the clientele problems, process of technology transfer has to play a crucial role for well being of the small and marginal millets farmers. Transfer of technology is a complex but very essential process in agriculture development. There is challenge before extension agencies to develop competent human resources in the agriculture sector to serve large farming community under different agro-climatic situations. The capacity building of the extension managers and field extension functionaries of the different millets growing states is becoming highly important. Their competency can be enhanced by improving skills, updating latest technical knowledge and ultimately changing their attitude so that they can deliver their services effectively. With this backdrop, the model training course (MTC) on “Good agricultural practices for biotic stress management and productivity improvement in millets as nutriceals” has been designed to build capacity of extension functionaries of different millets areas of the country.

OBJECTIVE

The training programme aims to improve the professionals (subject matter specialists/extension managers/ extension functionaries) competency and, upgrade the knowledge and develop technical skills on improved millet cultivation, efficient pest management and value addition.

COURSE CONTENT

The training curriculum will be largely based-on the emerging needs, knowledge and skill gaps among extension functionaries related to millets. The course consists of both lectures and hands-on practical sessions including the demonstration of new process/methods. A broad overview of the course curriculum is highlighted below.

- Millet pests and their management
- Advances in disease management in millets
- Exploitation of host resistance for millet pest and disease management
- Protection of millets from invasive pests
- Pesticide residues in agricultural products
- Potential of millets for diversified uses and entrepreneurship development
- Improved millets production technologies for diverse conditions
- Sweet sorghum production technologies and its improvement
- Nutritional benefits of millets and value addition
- An effective extension approaches for transfer of technology

TRAINING METHODOLOGY

The training methodology will be interactive lecturette using audio-visual aids, visit to research facilities and field demonstrations, and experience sharing by resource persons/participants. The trainees will also be provided with reading materials, a compilation of the subjects covered in the training, and also publications of IIMR on selected topics.

COURSE FACULTY

The course content will be covered by the experts of the respective subject from the IIMR and related national and international organizations of repute. The coordination of the programme will be accomplished by the team of Dr. IK Das, Dr. G Shyam Prasad and Dr. Rajendra R. Chapke.

TARGET GROUP

The training course will be suitable for the extension managers/field extension functionaries from the **state agriculture development and line departments**. The candidates from ICAR/

SAUs/KVKs/others may also participate with sanction of TA/DA from their nominating institute. The participants should at least possess Bachelor's degree in any discipline of Agricultural Sciences or allied fields.

DATE AND DURATION

The duration of the course is of 8 days from 23rd to 30th September, 2019. The sessions will start daily from 9:30 AM and will continue till late evening. Outstation participants are required to arrive latest by the evening of 22nd September, 2019.

TRAVEL, BOARDING AND LODGING

The travel expenses to the trainees from the **state agriculture development and line departments** will be reimbursed on actual basis and as per the entitlement of the officials and GOI norms. For others, TA/DA may be borne by their nominating institute. Actual TA will be paid on production of ticket(s) by the participants in support of his/her claim. The boarding and lodging expenses of all the selected participants will be borne from the training fund as per the guidelines. Candidates should bring permission & relieving letter from their respective organizations. The climate will be pleasant and the temperature during September ranges from 15 to 30°C. Participants are expected to make their own arrangements to reach the programme venue.

HOW TO REACH THE VENUE (IIMR)

Hyderabad is well connected to all parts of India by Air, Train and Road. IIMR is located on the Himayatsagar Road near the Professor Jayshankar Telangana State Agricultural University (earlier, ANGRAU) at Rajendranagar, Hyderabad 500030. It is located at an approximate distance of 20 km from Rajiv Gandhi International Airport (Hyderabad), 17 km from Nampally or Kacheguda Railway Stations, 23 km from Secunderabad Railway Station and 15 km from Mahatma Gandhi Bus Station (MGBS). IIMR can be reached by local bus (94H, 94R, 94L, 95R, 95L, 92 and 92R) or taxi or auto rickshaw.

LAST DATE FOR NOMINATIONS

The duly filled in nomination form forwarded through proper channel must reach Dr. IK Das, Course Director, ICAR-Indian Institute of Millets Research (IIMR), Rajendranagar, Hyderabad 500030, Telangana on or before 10th September, 2019. The application form can be downloaded from the website www.millets.res.in and sent in advance through e-mail to: das@millets.res.in. There is a provision for around 20 par-

Participants and the selection would be made on the first-cum-first basis.

CONTACT DETAILS

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COURSE COORDINATORS

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APPLICATION FORM

(to be sent to the Director/Course Director)

**Model training course (MTC) on "Good agricultural practices for biotic stress management and productivity improvement in millets as nutraceuticals"
(23-30 September, 2019)**

Full name (in block letters) :

Designation :

Present employer and address :

Address for Correspondence (in block letters) :

Telephone :

Mobile :

Email ID :

Fax :

Permanent Address :

Date of Birth :

Sex :

Marital status :

Academic qualification :

Nature of work and experience on current position

Please mention, if you have participated in any research seminar, summer/winter/short course. etc. during the previous 5 years under ICAR/ other organizations

Signature of the applicant

Date:

Place:

Recommendation of the forwarding authority.

Date:

Signature with official Seal



**Model training course (MTC) on
"Good agricultural practices for
biotic stress management and
productivity improvement in
millets as nutraceuticals"**

(23-30 September, 2019)



Course Director
Dr IK Das

Course Coordinators
Dr G Shyam Prasad & Rajendra R Chapke

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