



**Training Programme
on
Fundamental Concepts and Methodologies for
Agricultural Water Management
for the Technical Personnel of ICAR**

(December 19-24, 2016)

Course Director
Dr. Ravinder Kaur
Project Director

Course Coordinators
Dr. Manoj Khanna
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&
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Scientist



**Water Technology Centre
ICAR-Indian Agricultural Research Institute
New Delhi -110 012**

Background:

Water is the most important commodity for existence of life. Hence, it was the fundamental base for the development of civilized society. Agriculture is the major consumer of fresh water resources at national and global level. Due to rapid growth of population, urbanization, industrialization and economic development, a major portion of fresh water is being diverted to the non agriculture sector such as domestic, commercial and industrial sectors. Thus, the demand of fresh water for agriculture is increasing and availability is decreasing at very fast rate. Moreover, the development of new water resources are associated with high economic and environmental costs and pose limits to supply expansion. Hence, it is the need of the present hour to utilize the irrigation water in efficient and sustainable manner so we can able to increase the crop water use efficiency. However, the research is going on for development of modern methods and technologies for efficient utilization of water in agriculture in ICAR institutes and SAUs in our country. A trained technical manpower is very essential to strengthen the research programme on agricultural water management running in the ICAR institutes. Therefore, the present training programme aimed to boost the knowledge of technical personnel of ICAR in the area of agricultural water management.

Objectives:

1. To provide the technical staff of various ICAR institutes an opportunity to learn the fundamental concepts and methodologies for agricultural water management.
2. To make them familiar in the use of instruments/equipments/models/software used in the study of agricultural water management.
3. To upgrading the laboratory analytical and field experimentation skills of the technical personnel of ICAR.

Course Content:

Exposure to irrigation needs, soil physical properties measurement, crop water requirement estimation, water quality and its measurement, irrigation methods design and layout, micro-irrigation layouts, installation and maintenance, soil and nutrient sensors use and their installation and maintenance.

Course Duration: December 19-24, 2016 (6 Days)

Methodology:

The training programme will majority consists of field practical and field visits to research farm. The participants will be exposed to field experiments undergoing at the research stations. They will be exposed to day to day management of irrigation and micro-irrigation activities including soil physical properties measurement and their use in irrigation planning. A copy of the lecture notes delivered by the faculty members and other supporting literature related to agricultural water management will be provided to the participants.

Eligibility and Number of Participants:

Technical Personnel of ICAR (It is expected that participants of technical category at various ICAR institutes should have direct working experience/linkages with irrigation and micro-irrigation for its development /operation and maintenance / research / execution and other related activities). The number of participants will be 25.

Financial Liability:

The participants will have to meet their TA/DA from their respective Institutes. However, working lunch and session tea will be provided. Participants are requested to make their own arrangements for lodging and boarding as the limited accommodations are available in the Guest Houses at IARI, New Delhi.

How to Apply?

Application for participation in the course may be made in the prescribed format as given herewith and forwarded by the competent authority where the candidate is employed. Applicants may send an advance copy if they anticipate delay in forwarding through proper channel. However, the final selection will be made only if the application duly recommended by the competent authority is received, which must not be later than one week after the closing date. The closing date for receipt of applications is 25.11.2016. The selected candidates will be intimated by 05.12.2016 either by Email/ mobile phone. Participants may start their journey only after confirmation. After the candidates are intimated of their selection, they should immediately reply with firm acceptance. Cancellation at the last moment for casual reasons after acceptance will be regarded as a serious breach of ethical conduct since it may deprive other needy candidates who could have availed of this opportunity.

How to Reach:

Indian Agricultural Research Institute popularly known as "Pusa Institute" is located at Pusa in East Patel Nagar about 8 km west of New Delhi Railway Station and about 16 km east of Indira Gandhi International Airport. Pre - paid taxi/auto can be available at railway /airport/bus stations to reach at IARI, Pusa Campus, New Delhi.

About the Water Technology Centre:

The Water Technology Centre (WTC) is an inter-disciplinary facility for research, teaching, training and extension in agricultural water management. It was established in 1969 with the technical collaboration of University of California, Davis and partial financial support from the Ford Foundation (USA).

It was the first centre in the country to undertake the responsibility of training for senior, middle and junior level administrative and technical personnel of the Command Area Development Authorities & Irrigation Departments, Central Water Commission, Agricultural Universities, State Soil and Water Conservation Departments and sponsored candidates from foreign countries on interdisciplinary aspects of water management. As a result of which, it was recognized as the "Centre of Excellence in Water Management" by the Directorate of Extension of the Department of Agriculture and Cooperation, Ministry of Agriculture, GOI. It has a unit of the Precision Farming Development Centre (PFDC) scheme, of the Ministry of Agriculture. In the year 1996, the Academic Council of IARI recognized the Centre for the award of the M.Sc. and the Ph. D. degrees in the discipline of Water Science and Technology.

All correspondence may be addressed to:

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APPLICATION FORM

Training Programme on Fundamental Concepts and Methodologies for Agricultural Water Management for the Technical Personnel of ICAR (December 19-24, 2016)

1. Full Name (in block letter) :
2. Designation :
3. Present Employer and Address :
4. Permanent Address (including Office Telephone & Fax No., Mobile No. and E-mail Address) :
5. Date of Birth :
6. Sex: Male/Female :
7. Professional Experience :
8. Discipline :
9. Marital Status: Married/Unmarried :
10. Mention whether participated in any training programme / workshop under ICAR / other organizations :
11. Area of work :
12. Academic Record:

Exam Passed	Subject	Year of Passing	Class	University/Institution

Signature of the Applicant with Date

13. Recommendations of the forwarding Institute

Signature of the Forwarding Authority with Seal and Date

Certificate

It is certified that the information furnished above is correct. He/she will be relieved to participate in the said training programme and TA/DA will be paid by this office.

Signature of the Sponsoring Authority with Seal and Date