



**ICAR–Indian Agricultural Research Institute  
New Delhi-110 012**

**Training Programme  
on  
“Fundamental Concepts and Methodology  
for Agricultural Water Management”  
(September 11- 16, 2017)**

**Sponsored by**

**INDIAN COUNCIL OF AGRICULTURE  
RESEARCH, NEW DELHI-110012**



**Course Director:  
Dr. Man Singh  
Project Director**

**Course Coordinator(s)  
Dr. A. K. Mishra  
Principal Scientist (SWCE)**

**Dr. Himani Bisht  
Scientist (Agril. Meteorology)**

**Water Technology Centre  
Indian Agricultural Research Institute,  
New Delhi-110012**

### **Background**

Water is one of the most important inputs essential for the production of crops. Rainfall in India is erratic causing floods and droughts alternately. Artificial water supply through irrigation during deficit, and the removal of excess water through drainage during excess periods, therefore, become imperative for growing crops successfully. Water management in India, thus, comprises irrigation or drainage or both, depending considerably on the environmental conditions, soil, crops and climate. The main challenge confronting water management in agriculture is to improve water use efficiency and its sustainability.

### **Objectives**

The major objectives of the present training programme shall be to train the Technical Staff of ICAR institutes to understanding the fundamental concept of water management, measurement, basic hydrological properties, in-situ and ex-situ water harvesting and management, familiarization with modern instruments used in management of On-farm irrigation water and hands-on experiences on some advanced instruments like Hydrometers, TDR, IRGA Meter, Multi Water Quality Parameter Analyzer, Canopy Analyser, Flame Photometer, BOD analyzers and Pressure plate apparatus.

### **Course content**

The training will impart comprehensive knowledge on advanced concepts in Soil-Plant-Climate interactions, soil moisture conservation under water scarcity conditions, scientific estimation of crop water demand, various irrigation scheduling criteria and application of modern tools and techniques for irrigation planning and management; under different water supply scenarios. Techniques for enhancing agricultural water

productivity such as scientific design and layout of farm irrigation and drainage, soil water content measurement using TDR/Neutron Moisture meters/Soil moisture probe, geophysical techniques of groundwater exploration etc. Hands on experience of using modern instruments and systems of irrigation.

### **Course duration**

Six (6) days w.e.f. September 11- September 16, 2017

### **Travel, Boarding and Lodging**

There is limited facility of accommodation in the Guest houses within the IARI campus due to other pre-occupied programs. Accordingly, accommodation in those Guest houses / nearby hotels will be arranged to all participants on payment basis. During the training session, working lunch and refreshment will be provided as per the ICAR Guidelines. TA shall be borne by the sponsoring organization.

### **About IARI**

Indian Agricultural Research Institute, popularly known as ‘Pusa Institute’, is the country’s premier institution for research and higher education in the field of agricultural sciences. IARI conducts basic and strategic research, serves as a centre for academic excellence, and provides national leadership in agricultural research, education and extension through development of new concepts, hypotheses and technologies.

### **About WTC**

WTC is designated as Centre of Excellence in Training (CET) by Ministry of Agriculture and Cooperation, since 1989 and has made significant contributions in imparting several trainings on various aspects of water related issues in agriculture. Over the period of time centre has evolved into a unique institution, addressing a wide range of issues pertaining to water management at farm, large irrigation commands and watershed scales.



### Eligibility

The Technical personnel of ICAR institutes and from SAUs / CAUs / ICAR funded KVKs are eligible for participation in this training programme. All the applications must be routed through proper channel. The total number of participants will be strictly restricted to 25. There is no course fee for Technical personnel of ICAR institutes. However, Technical personnel from SAUs / CAUs / ICAR funded KVKs are required to pay a nominal course fee of ₹2000.00 (Rupees two thousands only) in the form of Demand Draft in favor of the Director, ICAR - Indian Agricultural Research Institute, New Delhi 110 012, payable at Syndicate Bank (IFSC code SYN0009029), Pusa, New Delhi 110 012. The TA/DA will be borne by the host institute of all participants.

### How to reach IARI

Indian Agricultural Research Institute popularly known as "Pusa Institute" is located at Pusa Campus in East Patel Nagar about 10 kms from 'Maharana Pratap-ISBT', 8 kms west of New Delhi Railway Station, and about 16 kms east of Indira Gandhi International Airport. Pre-paid taxi/auto can be availed at railway/airport/bus stations to reach at IARI, Pusa Campus, New Delhi.

### How to apply?

Application may be made in the prescribed format as given herewith and forwarded by the competent authority of the ICAR Institute where the candidate is employed. Applicants may send an advance copy if they anticipate delay in forwarding through proper channel.

## Application form for Participation in ICAR

### Technical Staff

(To be sent to the Course Director)

### Application Form

Institute \_\_\_\_\_ at \_\_\_\_\_.

1. Full name (in block letters):
2. Designation:
3. Present employer and address:
4. Address for correspondence (Give E-mail, Tel. / Mobile No.):
5. Permanent address:
6. Date of birth:
7. Sex:
8. Marital status:
9. (a) Teaching/research/professional experience (Mention posts held in last 5 years):
- (b) Present area of research
10. Academic record
11. Relevance of training to applicant's present academic and research activities:
12. Signature of applicant (Indicate name of place and date):
13. Recommendation of the forwarding Institute (Signature with date, designation/address):

### Certificate

It is certified that the above information was furnished as per the office record and was found correct.

(Signature and Designation  
of sponsoring authority)

Date  
Place

## IMPORTANT DATES

Last date for receipt of the application 25/08/ 2017

Intimation of Selection 30/08/2017

Participation confirmation by the candidates 05/09/2017

### Please send your nominations to:

**The Project Director**  
**WTC, ICAR-IARI New Delhi-110012**

& Course Director  
Training Programme on "Fundamental Concepts and Methodology for Agricultural Water Management"  
Phone: 011-25846790

**Email: pd\_wtc@iari.res.in**

**OR**

**Dr. A. K. Mishra**

Course Coordinator-I  
Water Technology Centre  
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Mobile: 09868846577,

**Email: akm\_wtc@iari.res.in**

**OR**

**Dr. Himani Bisht**

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