



Engineering Staff College of India
Autonomous Organ of The Institution of Engineers (India)
Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. TS, India

WATER RESOURCES DEVELOPMENT DIVISION

Continuing Professional Development Programme on
Strategies for More Crop for Drop of Water
12 – 15 November, 2019



(An ISO 9001:2015 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

INTRODUCTION

Water is the most crucial input for agricultural production. Agriculture is the biggest water consumer. It uses around 70 percent of all freshwater withdrawals worldwide. With a growing world population, agriculture will face more competition from industrial and domestic water users. This is why agriculture will have to use water more efficiently. The irrigated area in developing countries is expected to increase by 40 million hectares (20 percent) by 2030. By 2050, human population is projected to increase to 9 billion people and it is estimated that 70% of additional food have to be produced in order to feed the humanity over the next 40 years. Water demands increase not only for food production but also for other sectors like industry, domestic, power etc to meet the needs of the increased population.

Strategies for efficient management of water for agricultural use involves reduction in water losses in conveyance and distribution system through periodic maintenance, applying the right quantity at right time, participation of farmers in water management, right cultivation techniques and irrigation practices including increased use of water saving devices like sprinkler and drip, conjunctive use of surface and ground waters and moisture conservation practices. The use of pressurized irrigation technology could increase water-use efficiency and reduce cost.

The Government of India has been implementing Centrally Sponsored Scheme on Per Drop More Crop with the objective to enhance water use efficiency in the agriculture sector. Under the scheme, technological interventions like drip & sprinkler irrigation systems are promoted to encourage the farmers to use them for conservation and saving of water & improved yield. The positive outcomes of micro irrigation have made food security effective due to increase in production and productivity of different crops and increased area under irrigation from the same source of water resulting in enhanced nutritional security for the country.

It is important to popularize System of Rice Intensification technology (SRI) which requires less quantity of seeds, less nursery area, saving of water and labour and enhance yield. This method can be extended to other crops like sugarcane. Our soils are not rich in nutrients and hence supply of sufficient and balanced nutrients to the soil through Integrated Nutrient Management will enhance soil health and the yield of the crops.

In this context, there is an urgent need to resolve the water problems through smarter agriculture practices and better water management including modernization of irrigation systems which enable the rural people to have a better livelihood opportunities.

OBJECTIVES

The Proposed four day training programme aims at providing an opportunity to the Irrigation engineers, Agriculture engineers and Agriculture officers involved in irrigation and agricultural activities to enhance their knowledge and skill on “ Water use Productivity” with latest technologies in water management for more agricultural production.

COVERAGE

- Overview of “More Crop Per Drop”
- Irrigation Development in India
- Climate – Weather Forecasting
- Water Use Efficiency –Water Audit and Bench Marking of Irrigation Systems
- Crop water requirements – FAO guidelines.
- Introduction of Micro – Irrigation Systems in Agriculture sector
- Participatory Irrigation Management
- Modernization of Irrigation Systems – MASCOTTE approach – RAP
- SRI method of paddy cultivation and other methods with less water consumption & more productivity.
- Bhuvan - Per Drop More Crop App
- Field visit to irrigation system

METHODOLOGY

Methodology includes class room lectures with audio visuals, interactive sessions through group discussions, case studies etc. Emphasis would be laid on sharing of experiences of participants and active participation is solicited from participants. Medium of training is English.

TARGET PARTICIPANTS

The programme is meant for Junior and Middle level officers working in Irrigation, Agriculture, Water resources departments.

PROGRAMME VENUE

Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachi Bowli, Hyderabad - 500032, T.S, India.

DATES

12 – 15 November, 2019

TIMINGS

On the first day registration will commence at 0900 Hrs. On all other days the programme timings will be from 0945 to 1715 hrs with breaks in between for tea and lunch.

COURSE DIRECTOR

G. Naresh, M.Tech,MIE,(Ph.D),MIE
Jr. Faculty
WRD Division

ADVISER

M. Rama Mohan,B.Tech,FIE
(Former Chief Engineer
RWS&S Dept., Andhra Pradesh)
Adviser, WRD Division

COURSE FEE

Residential Fee is Rs.20,000/- per participant. Residential fee includes course material, course kit, and twin-sharing / single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks.

DISCOUNTS

Non-Residential Fee: 10% discount on course fee is allowed for non-residential participants.

Group Discount: Additional 10% discount for three or more participants if sponsored by the same organization.

(All discounts are applicable only if fee is received at ESCI before the commencement of the programme)

GST @18% as applicable is to be paid extra over and above the training fee. **PAN Card No** AAATT3439Q; **GSTIN** 36AAATT3439Q1ZV under commercial training or coaching services.

Programme fee is to be paid in favour of “**IE(I)-Engineering Staff College of India**” in the form of demand draft payable at Hyderabad.

Alternatively the payment may be made by **Electronic Fund Transfer (EFT)** to ESCI - SB A/c No. 10007111201 with The SBI, PBB, Rajbhavan Road Branch, Khairatabad, Hyderabad-500004 by **NEFT/ RTGS/ IFSC Code No.** SBIN 0004159 – MICR No.500002075. **While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.**

REGISTRATION

Online registration shall be available on ESCI website. To register, manually please send your nominations giving details of name, designation, contact address, email address, mobiles no, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to:

Head

Water Resources Development Division

Engineering Staff College of India

Gachi Bowli, Hyderabad – 500 032

Phone: 040 – 66304117 – 9 (Dir.) 23000465 (EPABX): Extn: 4117– 9

Fax: 040 - 23000336

E-Mail : wrd@escihyd.org

Url : www.escihyd.org

CERTIFICATE: A certificate of participation will be awarded to each participant on conclusion of the programme.

GENERAL INSTRUCTIONS

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of the outstation participants ESCI will facilitate pickup and drop from Airport / Railway Station/ Bus stations, if travel plans are received at least 3 days in advance along with mobile number by fax or email. The charges shall be paid by the participants directly to the cab.
- ESCI provides complimentary accommodation to participants a day prior to the commencement and after the conclusion of the programme. (Check in at 12:00Hrs) one day after conclusion (Check out at 12:00 hrs) of the programme duration.
- Overstay charges of @ Rs.990/- per day, per head will be charged.
- Well developed Information Centre and internet facilities are available to the participants.