

TRAINING PROGRAM ON MICRO IRRIGATION AUTOMATION

28th-29th JUNE, 2024
BANGALORE, KARNATAKA
DURATION: 2 DAYS



INTRODUCTION

Micro Irrigation Systems have enabled Precision farming with precision in the application of water and fertilizers and have proven Higher productivity with reduced inputs. However, unpredictability in weather conditions necessitates swiftly controlling farm operations in real time using Information & Communication Technology.

Automation in Irrigation enables the operation of Agricultural Irrigation Systems with minimum or no manual intervention. Further, the Control of Farm Operations in Real-time helps in mitigating unpredictable risks in Agriculture and making informed decisions for better productivity.

Monitoring farms from remote locations digitally by connecting sensors installed on a farm with controllers, Remote sensing, GIS software, Artificial Intelligence, Internet of Things (IOT), robotics, SCADA systems, and integration of sensors with machines makes the farming process data-driven.



TRAINING OBJECTIVES

- Build Knowledgeable & Skilled Irrigation professionals in designing and installation of Automated Smart Irrigation Systems
- Gain Practical insights on application of Time/Volume/ Sensor/IOT /remote sensing/ SCADA /Wireless/ Automated/ AI in Filtration, Fertigation and Irrigation control systems.
- Enable access to Technical Training material exceptionally curated by industry experts

TRAINERS



DR. SANGITA LADHA
Chairman- Training &
Education Committee, IAI
& Business Director - Rivulis Irrigation India



ANIL KAUSHAL
Vice President
Automat Industries Pvt. Ltd.



SHARAD PATIL
Director
Midigitek



SHASHIKANT PATIL
Digital Farming Solutions Manager
Netafim Irrigation India Pvt. Ltd.



AJIT INGLE
CEO & Managing Director
Atuofert Agrimations
Equipments Pvt Ltd



SUDHANSHU RAI
Co-Founder
Fyllow

3. AUTOMATION OF FERTIGATION

Criteria for selection of fertigation system | Importance of EC / pH monitoring and control

Different types of control systems (Open field/Protected cultivation/Pressure Sensors)

4. IOT-BASED AUTOMATION SYSTEMS

5. ARTIFICIAL INTELLIGENCE IN MICRO IRRIGATION

- Geo tagging Farms
- Live Tracking farms with Real-time farm data
- Tool for Decision Support System (DSS) with alerts and images on
 - Hyperlocal Weather data, weather forecasts
 - Crop Vegetation and soil moisture/ Plant wetness on smartphones
 - Irrigation scheduling and Fertigation EC/pH monitoring
 - Pest and Disease etc

Who should Attend

- Irrigation Professionals associated with the Micro-Irrigation industry having approximately 2 – 3 years of experience
- Micro-Irrigation Manufacturing Company Executives
- Irrigation Industry Dealers/Distributors
- Agricultural Engineering Graduates/Agricultural Marketing Executives
- Associates/Officers State Government Departments

Training Duration: 2 Days

- **Day 1:** Classroom training having 4 technical Sessions each of 1.5 hours.
- **Day 2:** Field visit to IOT based Automation System & Fertigation Automation System fields near Bangalore Area

Take-away - On Completion of Training, the trainee shall be able to:

- Understand Basic Automation Systems in Micro Irrigation
- Select a suitable configuration of the Automation system depending on various field situations
- Exposure to advanced Automation Systems – Open Field/Protected Cultivation
- Role of IoT and Artificial Intelligence in precision application of water and nutrients
- Get hands-on field experience in Automation Technologies their Operation and Maintenance

Training Fees

- IAI Member - INR 8000 + 18% GST per Participant
- Non-Members - INR 10000 + 18% GST per Participant

Note - Fee includes tea/coffee, lunches and transportation for field visit only.

Bank Details

Irrigation Association of India

A/C No:49010010099108

IFSC Code:IBKL0000490

Bank: IDBI Bank, Sadashiv Peth, Near SP College, Pune, Maharashtra

"TRAINING PROGRAM ON MICRO IRRIGATION AUTOMATION"

TRAINING SCHEDULE

Day	Date	Time	Topics	FACULTY
DAY 1 CLASS ROOM TECHNICAL SESSION	28/6/2024	09.00 - 09.30	"Opening of session - Introduction of the participants & brief about the training schedule & objectives"	
		09.30 - 11.00	"Basics of Irrigation Automation, Automatic filtration systems" <ul style="list-style-type: none"> - Different Types of Automation for both Open field and Protected Cultivation (Irrigation, Fertigation) Wired and wireless communication. - Components of automation systems 	"Mr. Shashikant Patil (Netafim)"
		11.00 - 11.15	Morning Tea Break	
		11.15 - 13.15	"Selection Criteria for Automation Type and Product Features": <ul style="list-style-type: none"> - Compatibility, Scalability, Integration, Suitability, User Friendliness, Data Analytics, Cost, Reliability, Adaptability, Customization, Support and Maintenance, Customer Testimonials, Automation in Protected Cultivation /Flow Sensors /Sensor based automation" 	"Mr. Sharad Patil (Midigitek)"
		13.15 - 14.15	Lunch Break	
		14.15 - 16.00	Automation of Fertigation: - Criteria for selection of fertigation system <ul style="list-style-type: none"> - Importance of EC / pH monitoring and control, - Different types of control systems: Open field and protected cultivation/Pressure Sensors/Leaf Wetness " 	"Mr. Ajit Ingle (Agrimations)"
		16.00 - 16.15	Afternoon Tea Break	
		16.15 - 17.00	Auto Drip Kit - Automation solution for small holders as per prevailing PMKSY guidelines. <ul style="list-style-type: none"> - Automatic Filtration systems 	Mr. Anil Kaushal (Automat)
		17.45 - 18.30	Review of sessions, Q / A and discussions	
DAY	Date	TIME	TOPICS	FACULTY
DAY 2 FIELD VISIT	29/6/2024	09.00 - 18.00	Field visit to IOT Based Automation Systems & Field visit to Automated Fertigation systems	Mr. Sudhanshu Fyllo & Nishikant Patil - Netafim
		18.00 - 18.30	Training Feedback, Certificate Distribution & Way forward...	Dr. Sangita Ladha

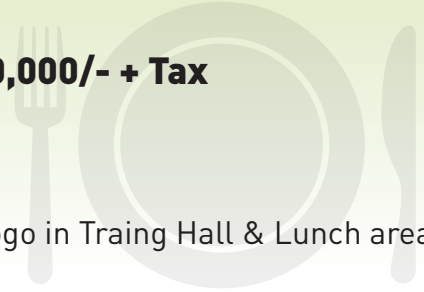
■ Sponsorship-Opportunities



1. Lunch Sponsor -INR-50,000/- + Tax

Benefits

- 2 X Standee with Company Logo in Traing Hall & Lunch area



2. BAG Sponsor - INR-50,000/- + Tax

Benefits

- Company Logo of Bags
- 2 X Standee with Company Logo is Traing Hall Area



3. Tea/Coffee Sponsor - INR-25,000/- + Tax

Benefits

- 1 X Standee with Company Logo

