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International Commission on Irrigation and Drainage (ICID)



Mr. RAHUL AKHRE

**ACMO WATER TECHNOLOGY
INDIA PVT LTD, India**

Smart Irrigation Management in Lift Irrigation Projects

2nd Indo Global Irrigation Summit
24-25 June 2026, New Delhi India

Smart Irrigation Management in Lift Irrigation Projects

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**ACMO WATER TECHNOLOGY
INDIA PVT LTD**



AWT'S MILESTONES & JOURNEY

COMPANY AT A GLANCE

2021

Year Established

65+

Professionals Across India

12+

Active Running Projects

5,500 km²

Total Command Area

20,000+

OMS Deployed

1 Million

Farmers Served

Market Entry

- Installed first POC in L&T NKMP Project.
- Secured **300 sq. km.** order with L&T.

Govt. Approvals

- WRD-approved vendor for Inbuilt Battery RTU, OMS, Pump House & AMS.

Pilot Project

- Danish Embassy-funded pilot.
- Tech visit to ACMO Italy.
- Seep-1 secured.

Market Expansion

- ACMO's Biggest breakthrough
- 7 new projects.
- Major EPC partners: LCC, DBL, Patel, Nav Tech, Amrutha.

Landmark Moment

- NKMP inaugurated by Chief Minister of M.P.
- 12 active projects.
- Order Book of **€ 15+ Mil (Over 5 Years)**

Expanding Horizons

- MEIL Partnership breakthrough.
- Expansion into MH, RJ, Odisha, UP.

2021
2022
2023
2024
2025
2026

The future is flow



OUR SMART IRRIGATION SOLUTION

PUMP HOUSE AUTOMATION & SCADA



- Real-time monitoring & control of Pump House via GPRS/RF.
- Periodic monitoring of OMS, RMS & AMS through Web-based SCADA LoRa WAN Communication.

HYDRAULICS, SURGE & PRIMARY FILTRATION



- Hydraulic design ensures correct pipe sizing and outlet pressure
- Auto flushing via timer/differential pressure
- Prevents pressure surge and vacuum in pumps/pipelines

AIR MANAGEMENT SYSTEM (AMS)



- Installed at key pipeline points for air release; prevents air locks, water hammer, and flow loss
- Web SCADA (LoRaWAN) for pressure monitoring and door status tracking

OUTLET MANAGEMENT SYSTEM (OMS)



- Coverage: 20–30 Ha
- Monitoring: flow, pressure, valve status, door status, battery, communication
- Control: outlet valve & PFCMD valve ON/OFF; pressure & flow via PFCMD

WATER USER ASSOCIATION (WUA)



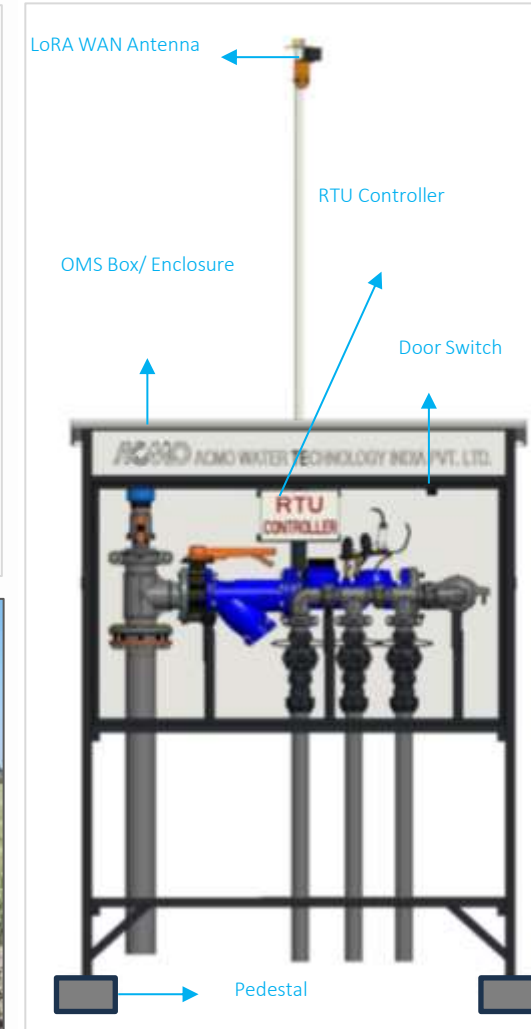
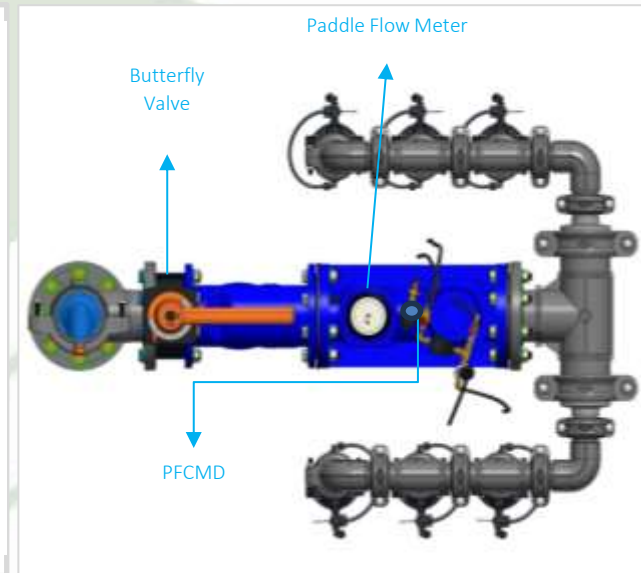
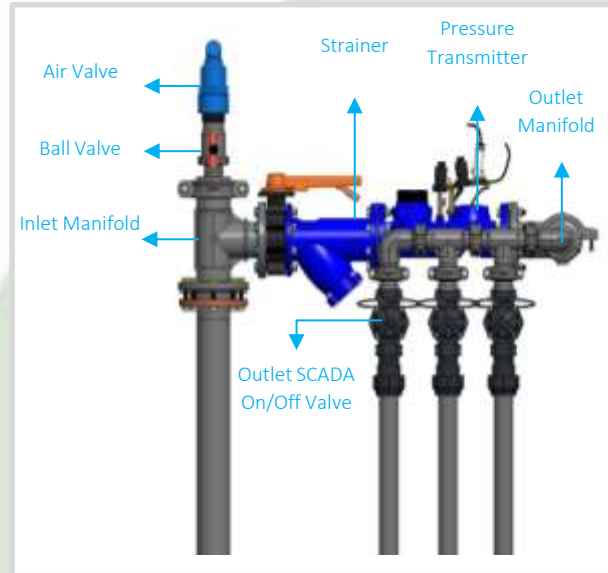
- Farmer training on system use & water management
- NOC/consents, land access & route clearance support
- Enables sustainable water use

OUR CORE SOLUTION - Outlet Management System (OMS)

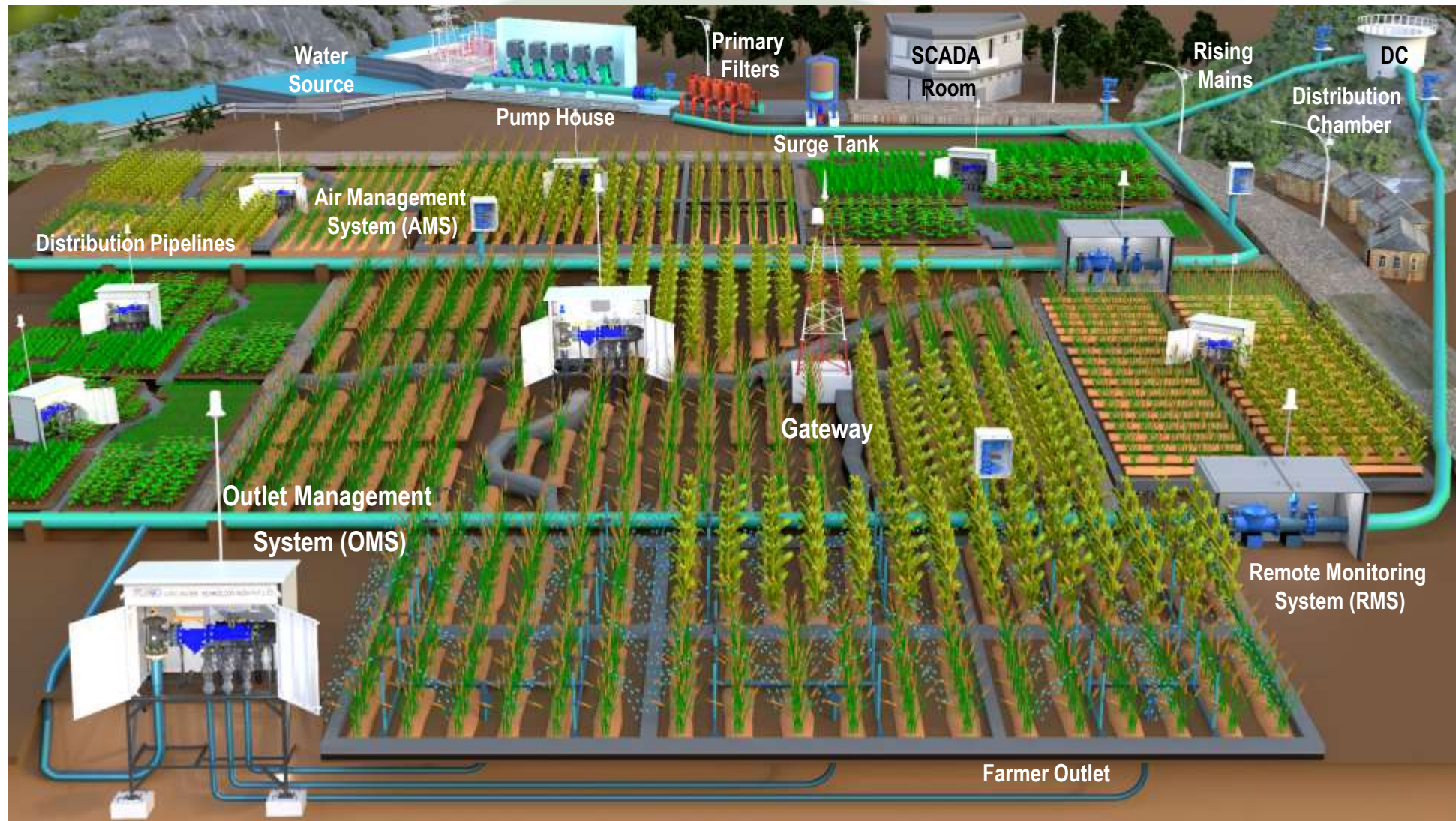
The Outlet Management System (OMS) is an automated field control unit designed for efficient water distribution and monitoring in irrigation networks. It is installed at each outlet point to regulate water flow, enable remote operation, and ensure equitable water supply to end users.

Salient Features of OMS -

- Standalone RTU controller for remote field operations.
- LoRa WAN Communication on License-Free Spectrum.
- Up to 2 Years Maintenance-Free Battery Backup.
- SCADA-Controlled solenoid valves with remote ON/OFF ensures water delivery as per planned schedule and allocation.
- Secure MS Enclosure with door tampering detection.



TYPICAL MICRO IRRIGATION SCHEME IN INDIA



CASE STUDY – L&T NKMP PROJECT

300 Sq. km.
Project Area

€ 3.14 Mil
Project Value

1539
Outlet Management System
(OMS)

1171
Air Management System
(AMS)

6
Pump House Automation

90,000+
Farmers Benefited



**Pump House
Automation**



**Outlet Management
System (OMS)**



**Air Management
System (AMS)**



**Water User
Association**



LARSEN & TOUBRO

Larsen & Toubro Limited, Construction
Water & Effluent Treatment
Narmada-Kishora Multipurpose Project
Ahavara No - 813/L, Near Government
Polytechnic College,
Village - Rajoda, Tehsil - Dewas
State - Madhya Pradesh, Pin-455001

TO WHOMSOEVER IT MAY CONCERN

We hereby certify that the Sub-Contractor P12101080034000 - ACMO WATER TECHNOLOGY INDIA PRIVATE LIMITED has completed the work assigned through work order No. LE/LE180620/WO/22/000040 Dated 01-Feb-2022 [Job Description - Narmada Kishora Multipurpose Project, Job No. LE180620] in all aspects and completed on 28-Feb-2023.

The work was executed as per specifications, requirements and quality of work were found to be satisfactory.

WO No: LE/LE180620/WO/22/000040
WO Date: 01-Feb-2022
Contract Value of Work: 34,36,04,254
Completed Amount of Work: 34,36,04,254

For Larsen & Toubro Limited

Inderjit Singh
Project Manager - Narmada-Kishora Multipurpose Project
Large Water Systems N&W III
Water and Effluent Treatment IC

Head Office: Larsen & Toubro Limited, Water & Effluent Treatment
Water Treatment Road, Manipalaram P.O. 575, Chennai-600 086, INDIA
Tel: +91-44-2779 4000, 2779 6000, Fax: +91-44-2779 5400, www.larsen.com
CIN: L50000MH1980PLC004750

Registered Office:
CAT House, V. M. Nagar
Bilaspur District
Jharkhand - 826 001, INDIA

Validity: 30 days from date of issue

Project Completion Certificate



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CASE STUDY – L&T NKMP PROJECT



Thank You

REGISTERED & CORPORATE OFFICE

Company: ACOMO Water Technology India Pvt Ltd

Location: Bhopal, Madhya Pradesh, India

Website: www.awt-bharat.com , +91 7880100789

Group: Member of the AVK Group, Denmark

Services: Smart Irrigation & Water Supply Automation