

Bulfro Monitech Pvt. Ltd.
Water Sustainability
Digital Solutions



Bulfro Monitech Pvt. Ltd.



**WATER MANAGEMENT
SYSTEM
(WMS)
TECHNICAL BROCHURE**

Services:

- Product & Solution Sales
- Installation
- Data Management and Security
- Maintenance & Services
- Water Legal Compliance

**Elevate Water Sustainability with
Bulfro Monitech-**

Welcome to Bulfro's Water Management System (WMS), a comprehensive suite of innovative solutions designed to redefine how we manage water resources. Our commitment is to empower industries and municipalities with the tools they need to optimize water usage, reduce waste, and foster a sustainable future.

Introduction:

Bulfro's Water Management System (WMS) is a cutting-edge suite of products designed to revolutionize water management processes. Our integrated solutions empower industries and municipalities to optimize water usage, reduce waste, and enhance overall efficiency. It is a water management system which includes multiple products provided by bulfro for water sustainability.

Features:

1. Real-time Monitoring:
 - Instant insights into water distribution and consumption.
 - Real-time detection of water quality anomalies.
2. Automated Metering:
 - Smart meters for accurate, automated water measurements.
 - Streamlined billing processes, reducing manual errors.
3. Predictive Analytics:
 - Advanced analytics for predicting water demand.
 - Proactive issue anticipation for optimized distribution.
4. Remote Control and Automation:
 - Remote water infrastructure control for faster emergency response.
 - Automated processes for efficient water distribution and treatment.
5. Asset Management:
 - Comprehensive inventory for water-related assets.
 - Scheduled preventive maintenance to extend infrastructure lifespan.
6. Customizable Dashboards:
 - User-friendly dashboards tailored to organizational needs.
 - Visualized data for informed decision-making and performance tracking.



CONTACT US



+91 8459004436
+91 9699775296



Sales@bulfro.com
Info@bulfro.com



WWW.BULFRO.COM [linkedin.com/company/bulfro](https://www.linkedin.com/company/bulfro)



PUMP HEALTH MONITORING & CONTROL SYSTEM (PHMC):

Bulfro Monitech Pvt. Ltd. is proud to introduce Pump Health Monitoring & Control System [PHMC) the innovative product with disruptive technology, architecture is based on IoT platform. PHMC system helps in reducing the maintenance cost & increase the life expectancy of Pump/Motor, data produced by PHMC will be a strong input to Predictive Data Analytics. Today there are all types of protections to safe guard Pump/Motor from unprecedented failures, but the mechanism for diagnostics and prognosis is unavailable. PHMC is invented to do this analytics. This innovative product has disruptive services which includes 24 X 7 technical support, auto/ online pump health monitoring, support on call.

Applications:

- Irrigation Schemes
- Sugar Factories
- Water Treatment Plants
- Urban Water Supply Schemes
- Rural Water Supply Schemes
- Collects pump information and sends it to Bullfro Communicator
- Sends information about your pump's performance to the brain via the Internet.
- Analyzes the data from the information received
- Helps in pre-diagnosis of pump complaints

Technical Specifications:

Specification	Range
Accuracy	97%
Input Voltage	AC- 230V/440V
Current	2A-99A
Connectivity	2G/3G

Material Of Construction (MOC):

	Body	CT
Standard	Powder Coated MS	Copper
Optional	ABS	



BULFRO RAIN WATER HARVESTING MONITORING SYSTEM (BRWHMS):

The Bulfro Rainwater Harvesting Monitoring System (BRWHMS) is a cutting-edge system designed for monitoring and measuring rainwater harvesting activities. This system is particularly important in the context of water conservation and sustainability efforts. Here are some key features and components of the BRWHMS:

Why to Choose BRWHMS:

- Cutting-Edge Tech: Seamlessly integrates with IIoT for advanced functionality.
- Accurate Measurements: Precisely measures rainwater for optimal usage.
- Field Data Access: Gathers crucial on-site data for informed decisions.
- Secure Cloud Integration: Ensures data security and remote accessibility.
- Rain Gauge Integration: Enhances accuracy of rainfall measurement.
- Compliance Reporting: Generates detailed reports for sustainability goals.



BRWHMS-OC

Technical Specifications:

Solar Power System with Battery	
Nominal voltage	7.4 V DC
Ingress Protection rating	IP68
Capacity	15.0 AH
Max. charging current	2.0 Amp
Max. discharging current	2.0 Amp
Full charge Voltage	12 V
Under voltage cut-off	5.6 V

Features:

- IoT Enabled
- Accurate Water Measurement
- Field Data Acquisition
- Cloud Server Integration
- Edge IoT and Data Security
- Rain Gauge Integration
- Compliance and Sustainability

Technical Specifications:

PADDLE TYPE FLOW METER:

The Bulfro BMFM-PSS-21 Paddle Type Flow Meter is a technologically advanced solution for accurate water measurement, playing a crucial role in promoting sustainability and e-governance. Its paddle wheel insertion design facilitates precise flow rate measurements in water distribution systems, aiding in sustainable water management. Trust in BMFM-PSS-21 for reliable water measurement and a sustainable, technology-driven approach towards efficient e-governance.

Features:

- Paddle Wheel Insertion Design
- Faraday's Law of Electromagnetic Induction
- Robust and Compact Housing
- Wide Flow Velocity Range
- High Reynolds Numbers



Flow Rate Range	0.5 m/sec to 5m/sec
Accuracy	±2% of full-scale deflection
Output Voltage	Square wave (Sinking) of 12-24VDC Max. amplitude, 15-17.5 Hz/meter/second
Cable Length	0.5 meters for filed type, 5 mtr. for panel type
Protecting Rating	IP-65
Operating Temp.	with PP Sensor up to 50°C with PVDF / SS Sensor up to 80°C Optional 125°C
Operating Pressure	up to 5kg for Plastic Body 0 to 20 Kg for the metal body

Material Of Construction (MOC):

	Body	Paddle	Pin	O Ring
Standard	PP	Delryn / PVDF	Hard Steel	Silicon / Viton
Optional	SS 316	PVDF / SS	Hard Steel	PTFE



BULFRO TANK LEVEL MONITORING SYSTEM (BTLMS):

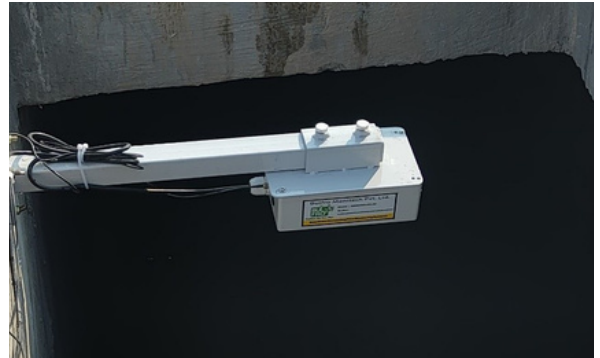
Welcome to the future of Tank Level Monitoring with the Bulfro Tank Level Monitoring System (BTLMS). Our cutting-edge system is designed to provide accurate and efficient monitoring and measurement of tank levels, enabling seamless control and management of water harvesting operations. BTLMS is a pinnacle of technological innovation, combining advanced sensor capabilities with the power of IoT connectivity.

Technical Specifications:

Solar Power System with Battery	
Nominal voltage	7.4 V DC
Ingress Protection rating	IP68
Capacity	5.0 AH
Max. charging current	2.0 Amp
Max. discharging current	2.0 Amp
Full charge Voltage	12 V
Under voltage cut-off	5.6 V

Features:

- **PReliable Performance:** BTLMS ensures accurate and dependable tank level monitoring, allowing you to manage water resources effectively.
- **Secure and Scalable:** BTLMS is designed with security in mind, ensuring that your data is safe and protected. Additionally, the system is highly scalable to meet the evolving needs of your operation.



Sensor Specifications:

Parameter	Range
Operating Voltage	8~12V
standby Current	≤5mA
Average Current	≤8mA
Blind Zone Distance	3cm
Ranging Distance for Flat Object	3-450cm
Response Time	100ms
Probe Centre Frequency	40K±1.0K
Operating Temperature	-15~60°C
Storage Temperature	-25~80°C
Sensing Angle	100°
Protection Rate	IP67