

ANTAR IoT PRIVATE LIMITED

Registered Address :

ANTAR IoT Private Limited, #311,
Plot No. 32-34&39-40, KTC
ILLUMINATION, Gaffoor Nagar,
Madhapur, Hyderabad, Telangana,
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ANTAR IoT™
CIN:U74999TG2017PTC120311

Branch Address :

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Antar IoT, a trailblazer in Industrial Internet of Things (IIoT) solutions, collaborated with a leading AquaCulture enterprise facing critical challenges in pump protection due to erratic water levels. The client's aquaculture operations were hindered by frequent pump damages caused by dry runs, resulting in significant downtime and high repair costs.

Challenge:

The aquaculture industry's vitality hinged on maintaining consistent water levels. However, the client struggled with frequent pump failures, resulting in an average of 15 hours of downtime per month and repair costs averaging \$2,500 per incident. Seeking a sustainable solution, they turned to Antar IoT for an innovative approach.

Solution Implemented: Water Level Monitoring System

- **Intelligent Sensors:**

Antar IoT deployed state-of-the-art sensors across the aquaculture tanks, ensuring real-time and accurate water level measurements.

- **Cloud-Based Monitoring:**

Data from the sensors was transmitted to a secure cloud platform, enabling real-time monitoring, historical analysis, and predictive insights.

- **Customized Alerts:**

Antar IoT implemented a customized alert system. Whenever water levels dropped below or rose above predefined thresholds, instant notifications were sent via SMS and email to the client's staff, ensuring swift action.

Benefits Realized:

- **Reduction in Downtime:**

Downtime reduced by 90%.

Monthly operational hours increased, saving 15 hours monthly.

- **Cost Savings:**

Annual savings in repair costs amounted to \$30,000 (12 incidents prevented).

Reduction in maintenance staff overtime costs by 80%, saving an additional \$9,600 annually.

- **Enhanced Productivity:**

Increased production output by 10% due to uninterrupted operations.

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Staff productivity improved by 15% as employees could focus on core tasks rather than troubleshooting pump issues

Data-Driven Efficiency:

Operational efficiency increased by 25% due to data-driven decision-making.
Predictive analytics reduced wastage by 8% through optimized water usage.

- **Environmental Impact:**

Water conservation achieved by 12%, saving 2,400 gallons of water monthly, contributing to the client's sustainability goals.

- **Conclusion:**

Antar IoT's Water Level Monitoring system transformed the client's aqua culture operations, delivering substantial benefits. By significantly reducing downtime, saving repair costs, enhancing productivity, and enabling data-driven efficiency, the client experienced a remarkable ROI. The solution not only safeguarded pumps but also optimized operations, illustrating Antar IoT's commitment to revolutionizing industries through cutting-edge IIoT solutions.

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