



CASE STUDY

# GeoSpatial Map Platform (GIS-based) for a Water Utility O&M





### **Client**

The client wanted a sustainable water availability ecosystem, ensuring that every household is provided with good quality drinking water. The water supply was to be directed to rural families in over 3100 villages covering a population of over 4.8 million.

# **Challenges**

- Tracking volatile water production from borewell
- Monitoring of drinking water quality
- Forecasting storage tank water level
- Estimating water demand for planning sufficient water supply

#### **LTIMindtree Solution**

- A Unified View of key performance indicators up to gram panchayat (GP) levels.
- Integrated asset management for quick turnaround time in service and spares, service management, and costs.
- Predictive analytics (using AI/ML models) of critical assets for root cause analysis and early detection of faults with triggers based on condition monitoring
- Performance optimization of solar power generation, pumped water consumption, and quality assurance of water, along with demand prediction.

## **Technology Coverage:** GeoSpatial NxT platform

Asset Management

**Realtime field force management** 

**☑** Predictive Maintenance

17k+

Water Distribution pipelines

**377 MLD** 

Aggregate capacity of Water

3100+

Villages covering 4.8 mn people

24x7

**Operations Centre** 

## **Benefits**

25% increase in Turn Around Time (TAT).

Increased productivity with the availability of Digital Twin models.

**85%** reduction in Human errors.

Increase in cost savings due to enhanced monitoring and timely action to reduce downtime.

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