Water Quality Analysis Report

Maharashtra Water Quality Monitoring System

Report ID: c3c70f60-4601-484c-a

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Location: Tapi River - Jalgaon

File Analyzed: test_water_quality.csv

Executive Summary

This report provides a comprehensive analysis of water quality parameters based on uploaded data. The analysis includes 60-day predictions, risk assessment, trend analysis, and actionable recommendations.

Overall Risk Level: LOW
Risk Score: 20/100
Trend: Stable
Critical Factors: 0

Risk Assessment

■ LOW RISK (Score: 20.0/100)

Water quality is within acceptable standards. Continue regular monitoring to maintain current conditions. Minor adjustments may optimize quality further.

Risk Factors

Parameter	Level	Score	Current Value	Description
DO	LOW	0.0	6.56	DO is within acceptable limits
Temperature	LOW	0.0	25.72	Temperature is within acceptable limits

60-Day Predictions

AI-powered predictions for the next 60 days (8 weeks) show trends for all monitored parameters. Predictions are based on historical data patterns and statistical modeling.

Parameter	Current	Week 4	Week 8	Trend	Confidence
BOD	2.40	3.86	5.24	Increasing	84%
DO	6.60	6.87	7.17	Stable	84%
Temperature	25.90	27.60	29.24	Stable	84%
pH	7.40	7.93	8.47	Stable	84%

Trend Analysis

■ STABLE CONDITIONS

Water quality remains relatively stable. 3/4 parameters show minimal change.

Recommendations

Medium Priority Actions

1. Enhanced Monitoring Program - Implement comprehensive monitoring to track water quality trends and early warning signs.