

GOVERNMENT OFFICER INFRASTRUCTURE STATUS REPORT

City: Mumbai

Department: Disaster Management & Water Resources

Officer ID: GOV-MUM-047

Date: 15/02/2026

Time: 18:40 IST

① DAM STATUS REPORT

Dam Name: Tulsi Lake Reservoir

Current Water Level (%): 88%

Structural Stress Index (0–1): 0.67

Rainfall Intensity (mm/hr): 22 mm/hr

Gate Discharge Rate (m³/s): 340 m³/s

Overflow Threshold (%): 90%

Maintenance Status: Monitoring

Remarks:

Continuous moderate-to-heavy rainfall observed in catchment area. Water level rising at 1.8% per hour. Discharge operations initiated but inflow exceeds outflow during peak rainfall windows.

② BRIDGE STRUCTURAL HEALTH REPORT

Bridge Name: Bandra-Worli Sea Link

Current Load (% capacity): 87%

Vibration Index: 0.72

Material Fatigue Score (0–100): 64

Traffic Density (vehicles/hr): 9,800 vehicles/hr

Last Inspection Date: 03/01/2026

Structural Health Category: Risk

Remarks:

Evening peak congestion combined with wind gusts increasing vibration readings. Monitoring recommended if load exceeds 90%.

③ TRANSFORMER / POWER GRID REPORT

Transformer ID: TR-MUM-WEST-112

Current Load (%): 91%

Temperature (°C): 86°C

Voltage Stability Index: 0.81

Failure Probability (%): 38%

Outage Risk Level: High

Maintenance Due Date: 28/02/2026

Remarks:

High commercial demand in western suburban region. Sustained high load beyond safe threshold for 2 hours.

④ AIR QUALITY (AREA-SPECIFIC)

Area Name: Andheri East

PM2.5: 168

PM10: 214

NO₂: 72

CO: 1.9

Composite AQI Score: 198

AQI Category: Unhealthy

Remarks:

High vehicular density and humidity trapping particulate matter. Visibility reduced during peak traffic.

⑤ TRANSPORT OPERATIONS SUMMARY

Active Buses Running: 2,184

Active Trains Running: 214

Average Delay (%): 27%

Route Congestion Index: 0.76

Service Efficiency (%): 81%

Remarks:

Western line experiencing delay due to signal malfunction at Dadar junction. Bus services rerouted to compensate.

⑥ RISK DECLARATION

Elevated Risk

Officer Signature:
A.K. Sharma
Senior Operations Officer
Disaster Management Unit

◆ What Your Frontend Should Now Automatically Do

Because of this data:

Dam: • Water level 88% + Rainfall 22 mm/hr
→ Increase overflow risk
→ Marker shifts yellow/red
→ AI prediction panel updates

Bridge: • Load 87% + High vibration
→ Health score drops
→ Risk severity increases
→ Marker pulses

Transformer: • Load 91%
→ Outage risk increases
→ Alert badge increments

AQI: • 198 (Unhealthy)
→ Heatmap intensifies
→ AQI meter turns orange/red
→ Citizen advisory triggered

Transport: • Delay 27%
→ Traffic overlay intensifies
→ AI predicts congestion spike

This report now acts as:

A state-change trigger
For your entire dashboard

If you want next, I can convert this into clean structured JSON ready for direct frontend ingestion.