

Highway Project in Uttarakhand, India



Haridwar Bypass

INFRASTRUCTURE

Highway Project in Uttarakhand, India

Project Name	Haridwar Bypass in Uttarakhand, India.
Category	Infrastructure
Client Name	Ircon International Limited



Problem Statement

The client sought to digitize project management for a 15.1 km highway corridor comprising of bridges, underpasses, and culverts. A centralized system was required to replace fragmented tools and streamline document control, coordination, and billing workflows.

To minimize delays and improve cross-functional collaboration, a cloud-based platform was needed for real-time access to cost, schedule, and progress data across all phases of the project lifecycle.

Stakeholders Involved

Project Management Team	Structural and Civil Engineers
Contractors and Subcontractors	Government & Regulatory Authorities

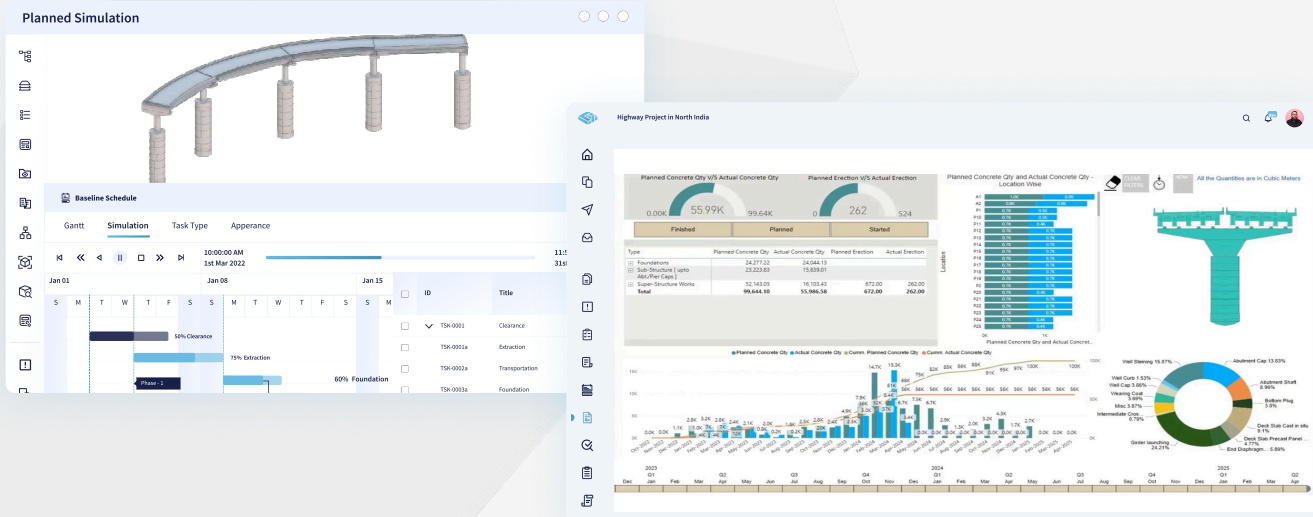
Solution

A cloud-based project management platform was deployed to improve coordination, reduce delays, and deliver real-time project insights across all disciplines.

- **BIM Model Visualization & Federation** – Enabled collaborative review and seamless coordination.
- **Clash Detection & Issue Resolution** – Identified and resolved conflicts without additional tools.
- **Document Management & Approvals** – Streamlined submissions and reviews via a centralized system.
- **4D Simulation** – Linked model elements to schedules for dynamic project tracking.
- **5D Dashboards** – Integrated cost and progress updates into BI dashboards for real-time monitoring.
- **Data-Driven Insights** – Enriched dashboards with inspection and progress data for accurate decision-making.

Implemented Features

-  CAD & BIM Viewer
-  Document Management
-  Digital Reviews & Approvals
-  Issue Management
-  Schedules
-  4D Simulation
-  Estimates
-  Contract Management
-  5D Dashboards
-  Private Cloud Hosting



15.1 Km
Stretch of
highway

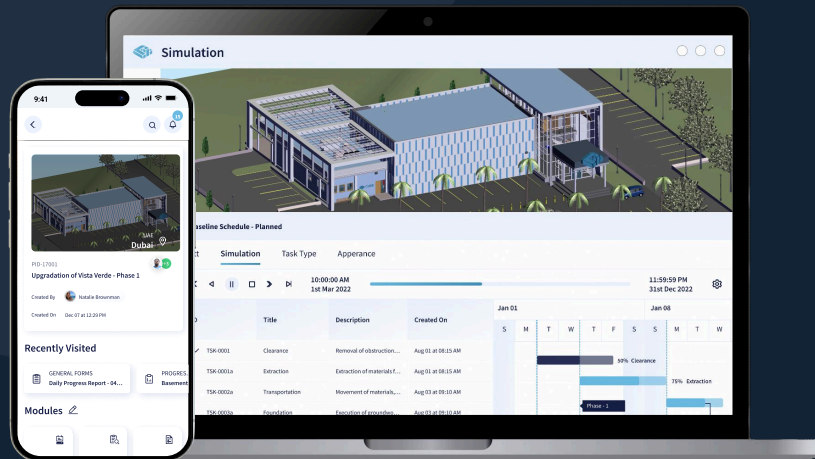
\$250 Mn
Project
Value

100%
Cloud-based
operations

Benefits

- Improved cross-disciplinary coordination and faster decision-making.
- Enhanced visibility of costs, schedules, and progress in real-time.
- Streamlined document reviews, digital approvals, and compliance tracking.
- Reduced project delays through clash detection and issue management.
- Better resource allocation via integrated cost and schedule dashboards.

Ready for a smarter approach?
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