



LEVERAGING ISETIA FOR SEAMLESS PROJECT MANAGEMENT

Project: Rishikesh-Karnaprayag
New BG Rail Line Project – Pkg 4

Contractor: L&T Construction,
PMC: TUMAS-ALTINOK

Location: Devprayag,
Uttarakhand, India



L&T Construction

ABOUT LARSEN & TOUBRO CONSTRUCTION



L&T Construction

Larsen & Toubro (L&T) is a prominent Indian multinational conglomerate renowned for its contributions to infrastructure development and engineering services. Founded in 1938, the company has evolved into a leading player in various sectors, including construction, manufacturing, IT, and financial services.

L&T Construction is a key division within the L&T group, specializing in engineering, procurement, and construction (EPC) projects.

It is recognized as **India's largest construction organization** and ranks among the world's top contractors.



ABOUT RISHIKESH-KARNAPRAYAG RAILWAY LINE PROJECT



L&T Construction



Rishikesh – Karnaprayag Railway Line project is a 125.20 km single-track railway line under construction in Uttarakhand with 12 stations by Rail Vikas Nigam Limited(RVNL) .

The project is estimated to cost Rs. 16,200 crore and will reduce the travel time between Rishikesh and Karnaprayag from 7 hours to just over 2 hours.

The project will feature a ballastless track system.



SIGNIFICANCE OF THE PROJECT

The project is of national strategic importance and is being tracked on the Central Government's PRAGATI (Pro Active Governance and Timely Implementation) portal. When ready, it will help improve connectivity to the Char Dham shrines of Yamunotri, Gangotri, Badrinath and Kedarnath in the Garhwal region of the Himalayas. Along its route, 105.47 km (84.24%) of it will consist of 35 bridges and 17 tunnels including a 15.1 km tunnel, one of the longest in the country, between Devprayag and Lachmoli. Larsen & Toubro has deployed 2 Herrenknecht Hard Rock TBMs with diameters of 9.1 meter which is the biggest TBM to be deployed in the Himalayan Region.



LENGTH OF PACKAGE 4 SCOPE

15.7 Km of tunnel works and 15.7 Km of escape tunnels.

Requirement:

The client sought a dynamic web-based PMIS to streamline their project management operations. Key features required were robust document management, real-time progress tracking, GIS reporting and efficient correspondence handling. The goal was to create a centralized platform (CDE) for all project activities, optimizing workflows and enhancing overall decision-making for more action-oriented results.



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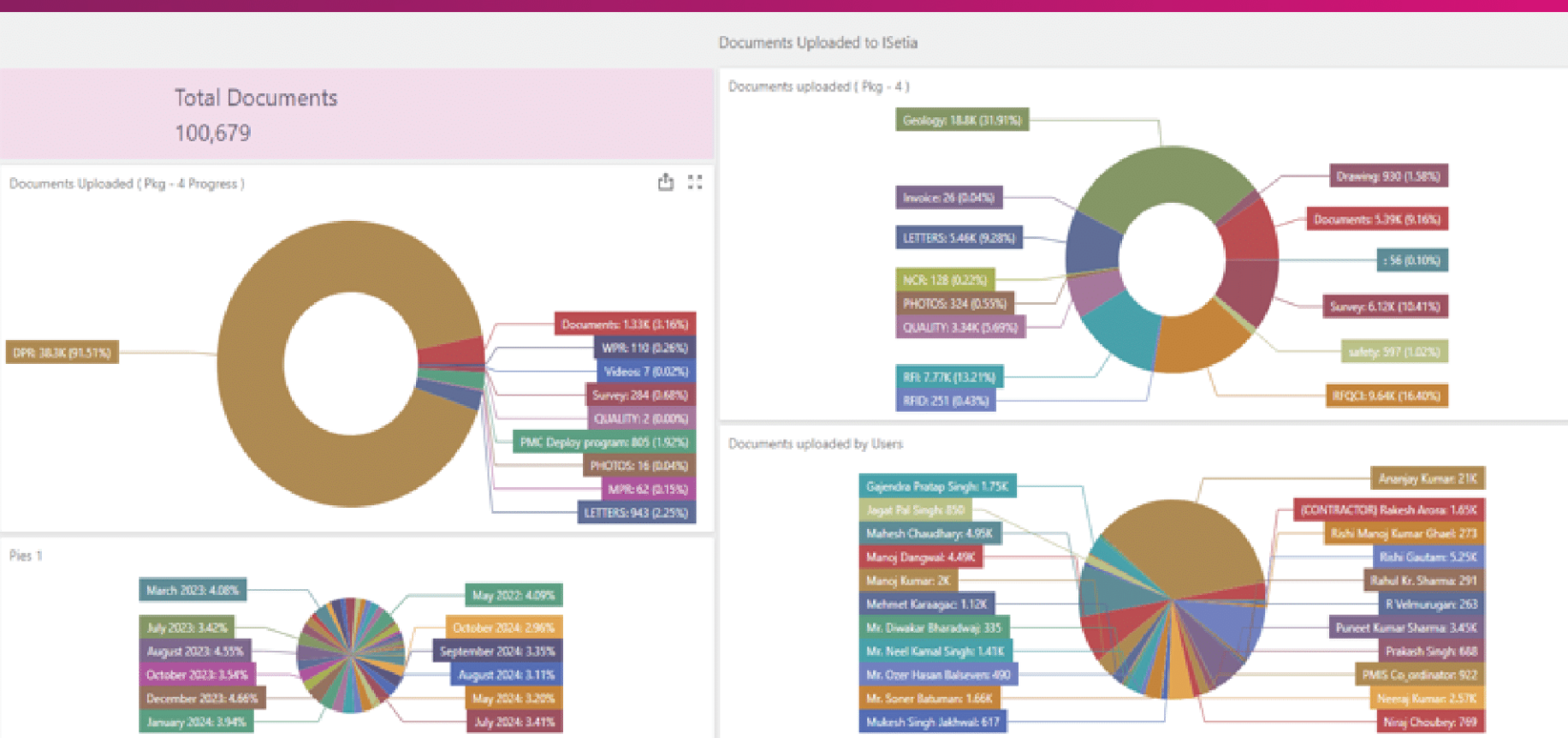
Solution:

ISETIA's cloud-based PMIS leverages the power of real-time data analytics to optimize project management. By providing a centralized repository for all project data, GIS based tracking and enabling collaborative workflows, it empowers stakeholders to make data-driven decisions and achieve project objectives efficiently.



RESULTS AND METRICS

- 100,000+ documents including Daily Progress Reports (DPR) are managed on **ISETIA's** CDE platform ensuring access to project team members.
- 1000+ correspondences making it a seamless collaboration for project stakeholders.
- Automated the process of recording and analysing tunnelling productivity rates based on rock class type, reducing manual effort and improving accuracy.



- Successfully captured over 3,200 individual RESS cards within 2.5 years, providing valuable geological reports.
- **ISETIA** provides a single source of truth for real-time project insights, and interactive dashboard reports boosting productivity and confidence.
- GIS Based progress updating in the hilly terrain makes it easier to highlight ongoing vs completed works.
- Non Conformity reports (NCR) generated through **ISETIA** help maintain quality and safety control.



THE POWER OF ISETIA MODULES

- **Dashboard & Analytics Module:** Offers a comprehensive overview of project progress. Project-intelligent reports such as progress reports, schedule reports, plan vs actual reports, finance S-curves are created through this module facilitating informed decision-making at all levels. **ISETIA** Dashboards are used in weekly and monthly meetings by project stakeholders to review progress status.
- **Board Module:** Enables efficient task management with clear visualization of workflows and daily/monthly progress.
- **Correspondence & Document Module:** Streamlines document management, contractual correspondences ensuring easy access to critical information and fostering seamless collaboration.

BENEFITS REALIZED

- **Improved document Management:** Streamlined workflows and real-time data ensure efficient contract management.
- **Enhanced MIS Reporting:** Accurate and timely updating of DPR, MPR, financial progress data empowers data-driven decision-making.
- **Reduced Risks:** Proactive monitoring through ISETIA and real-time project data mitigate potential issues.
- **Project Success:** Increased efficiency by improving ability to track and monitor projects.



CONCLUSION

ISETIA has emerged as a critical PMIS partner in the Rishikesh-Karnaprayag Pkg 4 tunnel project. Its agile functionalities ensure efficient management, adaptable planning, and successful project execution in the face of complex challenges. Furthermore, by enhancing contract management and quality assurance, **ISETIA** fosters project success and stakeholder satisfaction.



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