

**Case Study** 

# Drone-based Quantity Estimation for Largest Construction Company based in India





# Client

The client is India's largest construction organization and ranked among the world's top contractors. It offers EPC solutions to execute large industrial and infrastructure projects from concept to commissioning on a turnkey basis with single-source responsibility.



### **Client Ask**

- Accurate quantity estimation for reconciliation, production management, and theft loss prevention.
- Replacement of highly time consuming, subjective, interpolated and dangerous conventional methods with the latest technology.



## **LTIMindtree Solution**

- Using drones to gather data to achieve higher accuracy and minimize the field team.
- The entire workflow of drone-based stockpile measurement is classified into:
  - Establishment of a control network survey
  - Mission planning & flying
  - Photogrammetry processing & delivery
- · Using photogrammetric principles, the generation of stereo models
- Stockpile 3D models, orthophoto, and volume reports for end users through FAMeVol, an in-house GIS web portal.

# **Business Benefits**

Reduced quarry survey time from 144 man-hours to just 36 hours

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Enhanced accuracy for better cost savings in the quantity

Minimization of 90% of the usage of paper works at the site and office





Enhanced safety due to the utilization of drone surveys

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