

CLIENT SUCCESS STORY

FORTIFYING SAFETY AND OPERATIONAL EXCELLENCE FOR A LIGHT RAIL TRANSIT (LRT) SYSTEM

Foolproof independent checking and standard-setting for Jakarta Light Rail Transit

In the city of Jakarta, Indonesia, sub-optimal road connectivity between the city center and the suburbs leads to traffic congestion and long commute times. The government is building a Light Rail Transit (LRT) system to resolve this, over an initial 42-km stretch, which will subsequently cover 130-km in its next development phase.

With a massive surge in the number of commuters at peak times, safety and operational excellence are of paramount importance. L&T Technology Services was chosen to carry out the task of verifying and independently checking the railway standards owing to rigorous experience of our expert team.

OBJECTIVE



Our client wanted to conduct a thorough check of the 42-km stretch of the Jakarta LRT system before opening it for city commuters.



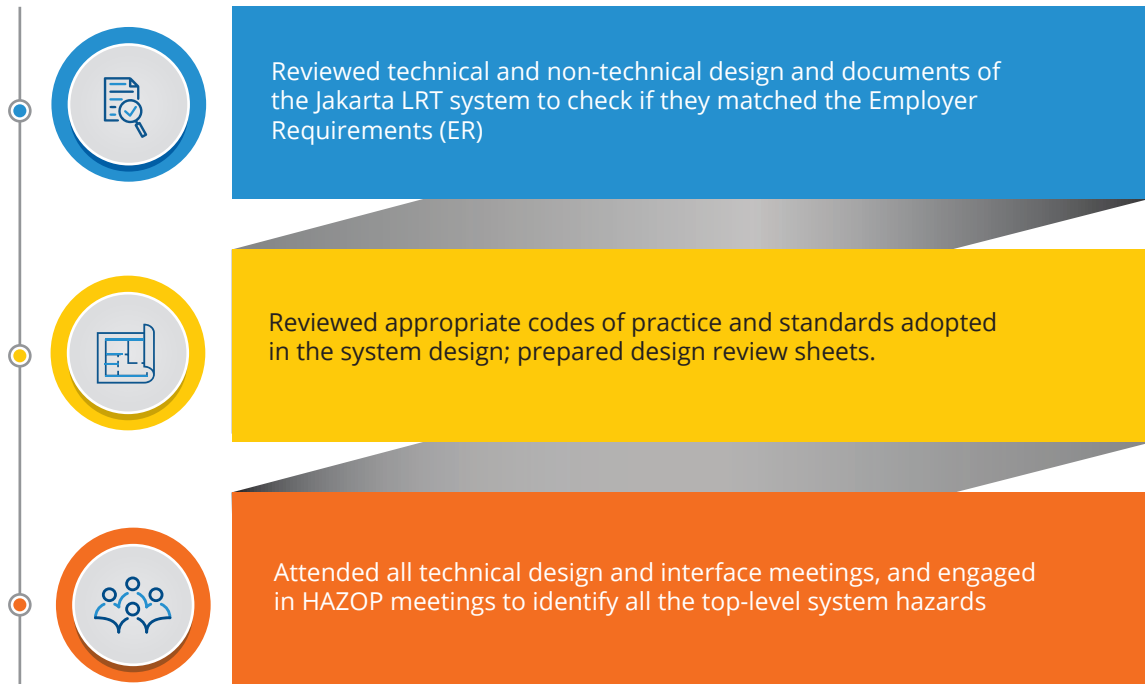
We had to ensure that system design deliverables met international and regional regulations and operational standards. Areas of inspection included signaling, tracks works, depot works and more. We had to raise a red flag in case of any instances of non-compliance.

CHALLENGE




- L&T Technology Services (LTTS) faced the challenge of engaging and coordinating with various entities for compliance checks involved in the construction and certification.
- Independent checking involved the complex task of physical equipment checks and technical inspection of the processes.
- We had to establish conflict management scenarios for hazards that could disrupt operations.

PROCESS

LTTS adopted a methodical and synchronized approach to fulfill this requirement. It thoroughly checked the system design to highlight any vital non-compliance issues.



RESULTS

-  Ensured safety for the Jakarta LRT system – signaling, tracks works and more.
-  Validated operations of the Jakarta LRT system – Operation Control Center (OCC), depot works, Automatic Fare Collection (AFC) and more.
-  Benchmarked the design structure of the system against all Employer Requirements (ER) and advised the client about any potential conflicts, hazards, non-compliance or technical difficulties.

HIGHLIGHT

LTTS assumed 100% ownership of the standard-setting and inspection of the Jakarta LRT system. We analyzed various aspects, such as AFC & PSD systems, rolling stock, signaling, power supply systems, and system assurance among others. Post-inspection, the Jakarta LRT system successfully moved on to its next phase of development.

For more information visit us at www.LntTechservices.com

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About L&T Technology Services

L&T Technology Services Limited is a subsidiary of Larsen & Toubro Limited with a focus in the engineering services space, partnering with over 50 Fortune 500 companies. A leading pure-play Engineering, Research and Development services company, we offer design and development solutions through the entire product development chain, across various industries such as Industrial Products, Medical Devices, Transportation, Telecom & Hi-tech, and the Process Industry. We also offer solutions in the areas of Mechanical Engineering Services, Embedded Systems & Applications, Engineering Process Services, Product Lifecycle Management, Engineering Analytics, Power Electronics, Machine-to-Machine (M2M), and the Internet-of-Things (IoT).