

Independent Safety Assessment & Cybersecurity missions Ahmedabad Metro Rail Project

Customer: GUJARAT METRO RAIL COPORATION (GMRC) LIMITED

Location: Ahmedabad – Gandhinagar (India)

Duration of the project: 2018-2020

Staff: 1 Project Manager and 4 Assessors



PROJECT'S DESCRIPTION:

- The Metro-Link Express for Gandhinagar and Ahmedabad co. ltd (MEGA) is a mass-transit rail system between the cities of Ahmedabad and Gandhinagar in Gujarat that will connect 4 corners of Ahmedabad with 2 corridors and 32 stations. The 1st phase of the project, expected to be completed by 2020, is about 39.259 km out of which approximately 6 km is underground and the remaining part is elevated section.

SCOPE OF WORK:

In the framework of this leading project, CERTIFER has carried out an independent Safety Assessment (ISA) mission through which we carry out a cybersecurity mission by ensuring that all new construction or modification affecting safety has been properly specified and implemented by covering the following aspects:

Independent Safety Assessment Mission (ISA)

- The ISA mission of CERTIFER consist in assessing overall signaling system design, manufacturing, testing regarding safety objectives.
- Assessment of the subsystems (interlocking, train detection, hot box detection, operation control center,...) regarding CENELEC standards EN50126.

Cybersecurity Mission – as requested by the new EN 50129 version, and based on IEC 62443

- The Cybersecurity mission is performed as following:
 - Review of Cybersecurity management plans;
 - Review of risks management processes;
 - Review of incidents management policy;
 - Documentary reviews (technical specifications, architectural diagrams, texts specification and reports...);
 - Assessment of counter measures and their impacts to mitigate risks;