

## LIGHT RAIL TRANSIT - C504 SUPERVISION

(Extension of the Light Rail Taipa Line to Barra Station

Rolling Stock, Systems, Electromechanical Equipment and Civil Construction Works)



Light Rail Taipa Line including future connection to Barra Station and Hengqin Island

**Client / Employer** Macao Special Administrative Region Government Infrastructure Development Office (GDI)

**Service** C504 Supervision by CONSULASIA, LDA.

**Investment** MOP 11,000 Million (estimate) / Around 1,320 Million Euros

**Contract Price** MOP 149,592,000 / Aprox. 16,800 Thousand Euros

### Description of the Project

The Macao Light Rail Network has been in commercial operation in Taipa since December 2019 and will be extended to Macau Peninsula, through the installation of the Light Rail System in Sai Van Bridge lower deck, connecting Oceano Station (Taipa) to Barra Station near A-Má Temple (Macau). This new Macao Light Rail project will mark an important milestone with the arrival of the Light Rail System to the Macau Peninsula.



Works on the Sai Van Bridge tunnel

CONSULASIA's participation on this very important infrastructure began with the supervision of Taipa Line, between 2016 and 2020, including the installation, testing and commissioning of:

- Rolling Stock and Equipment to support Operation and Maintenance;
- Exploration Support Systems;
- Vehicle Signaling and Automatic Control System;
- Station elevators and escalators.

Following the success of the services provided through its multidisciplinary team in the Taipa Line Project, a fact widely recognized by several stakeholders, CONSULASIA was invited to extend its participation to the supervision of this new section.

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Barra  
Station

For this new project, all installation, testing and commissioning works for LRT Line Extension are included, as well as its integration with the existing systems, such as:

Access control	Ticketing system	Video surveillance system
Rolling stock	Control centres	Fire detection systems
Supervision and data acquisition system	Electric traction system	Automatic signaling and control
Automatic platform doors	Low voltage distribution	Ventilation and air conditioning
Normal and emergency telephones	High voltage distribution	Permanent track infrastructure
Public announcement system	Fire suppression systems	Data transmission system
Time synchronization system	Radio systems	Complementary construction works

The project also includes:

- Provision of supervision services during the warranty period of C110 contract, related to the Taipa Line project;
- Inspection of safety conditions of the site activities related to C110 contract for the extension of the Light Rail Transit System to Barra Station.

A multidisciplinary team of 40 people was allocated, consisting of Consultants and Inspectors of various disciplines, namely: Electrical and Electronic Systems, Mechanical Systems, Rolling Stock, Civil Construction, Commercial Consulting, Topography and Occupational Safety.