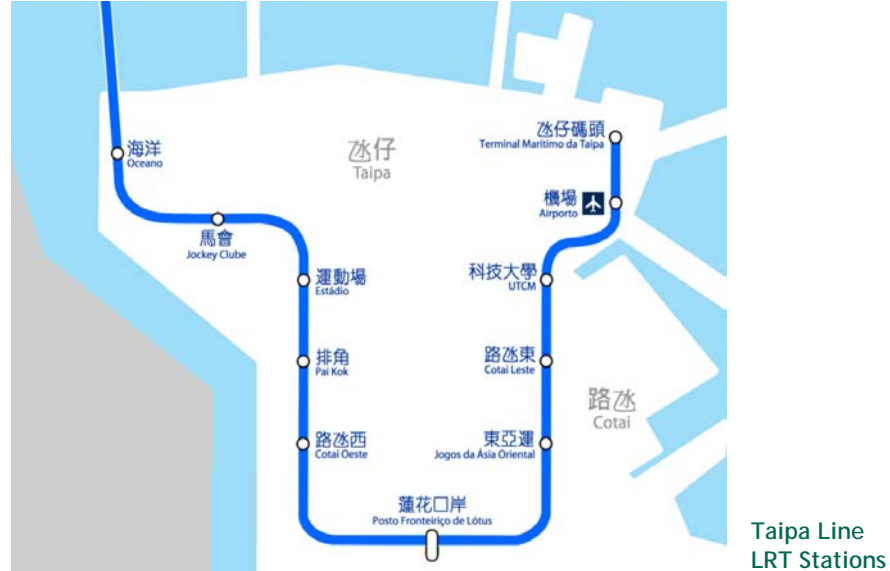


## MACAU LIGHT RAIL TRANSIT - C500 SUPERVISION (Taipa Line System and Electromechanical Equipment)



**Client / Employer** Government of the Macao Special Administrative Region  
Transportation Infrastructure Office

**Service** C500 Supervision by CONSULASIA, LDA.

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

**Contract Price** MOP 196,899,548 / Aprox. 23,610 Mil Euros

### Description of the Project



Railway between Jockey Club and Oceano Stations

Has been one of the main public works since the transfer of the sovereignty of the territory of Portugal to China in 1999. This project aims to contribute strongly to urban development, traffic planning and mobility of the resident population and tourists of the Macao Special Administrative Region.

In an initial phase, the light rail network will have two segments, one in the Macao Peninsula and the other in the Zone that covers the island of Taipa and Cotal (New urban area between the islands of Taipa and Coloane). The two segments will be connected by the Sai Van Bridge.

The project was launched with the construction of the Taipa line and is expected to start operating in 2019. The Taipa line will have 9.3 kilometers, 11 stations and an estimated cost of 11,000 million patacas (approximately 1,300 million euros).

The light rail will use "Mitsubishi Heavy Industries Crystal Mover" rolling stock with rubber tires resting on concrete plinths. It is planned to use 55 vehicles of 2 carriages, totally automated (without driver), nicknamed "Ocean Cruiser".

## MACAU LIGHT RAIL TRANSIT - C500 SUPERVISION (cont.) (Taipa Line System and Electromechanical Equipment)



Oceano Station

The involvement of CONSULASIA in this important work began in 2002 with the initial feasibility study of the project. Some years later, in 2010, CONSULASIA was responsible for the elaboration of the project of 4 stations and respective viaducts in the Taipa segment. In 2015, CONSULASIA was invited to make the redesign of the LRT's Materials and Workshops (Depot) Project, located in Cotai.

Through a consultation process, the Macao Office for Infrastructure awarded CONSULASIA the supervision of the C500 project which includes:

- \_ C110 / System and rolling stock for the 1st phase of the light rail system of Macao;
- \_ C111 / First Series of Trains and Additional Equipment;
- \_ C125 / Elevators and escalators of Taipa stations.

The main objectives of the project are:

- \_ Inspection of the shipyards;
- \_ Surveillance of tests;
- \_ Verification and approval of the light rail system and equipment as representative of the Construction Work Owner.

The scope of supervision work covers:

- \_ All works on the Taipa line of C110 and C111, such as train installation, electricity supply, low voltage system, signaling system, telecommunications system, equipment of the Materials Park and Workshop, the main control system, the ticketing system, among others;
- \_ C125 station elevators and escalators;
- \_ Surrounding area equipment;
- \_ Full safety oversight for the whole light rail line project in order to ensure that the work associated with the execution, testing and commissioning is carried out in full safety conditions;
- \_ The members of the inspection team shall provide the services until the final settlement of C110, C111 and C125 has been completed.

This is the largest supervision project ever undertaken by CONSULASIA in Macau with a MOP196,899,548 MOP contract (approximately 23 million Euros). The project started in December 2016, involves a team of more than 55 professionals and will last 40 months until March 2020.