

MACAU DRAINAGE NETWORK (improvement studies)



Client / Employer Government of the Macao Special Administrative Region
 Land, Public Works and Transport Bureau

Service Macau Drainage Systems Improvement Studies by CONSULASIA, LDA.

Investment N.A.

Contract Price MOP 23,983,852

Time Schedule February 2014 up to the present

Description of the Project The Government of the Macao Special Administrative Region by the Land, Public Works and Transport Bureau (DSSOP), has awarded Consulasia, following the work in Taipa, the extension of the technical study now applied to the Macao Peninsula.

As with the study in Taipa, the ultimate goal of this project is the complete measurement of flow conditions and layout of the drainage network of storm water and sewage from the city of Macau. This technical study will update the registration of the existing network by adding relevant and essential information:

- _ Calculation and counting all existing manholes network;
- _ Location of all the manholes of the network system with planimetric and altimetric coordinates, by using the GPS system;
- _ Diameters and inclinations of the existing pipe, with the inclusion of photographic record of each existing manhole in the system;
- _ Updating and inclusion of detailed information on flows of the entire drainage system of the city of Macau;
- _ Redesign and consequent updating of the registration own network of storm water and sewage drainage of the entire city of Macau.

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Description of the Project (cont.)

This technician network study is part of the modernization and adaptation of primary Macao SAR infrastructure, given the growing population, territorial increase (by land reclamation), and normal infrastructure deterioration of itself over time.

To reinforce the urgent need to develop this study we refer to information provided by the Statistics and Census Service of the Government of the Macao Special Administrative Region, indicating that the population grew 39% between January 2000 (437 thousand inhabitants) and January of 2014 (607 thousand). About 83% of the population lives in Macau peninsula.

The Macao Peninsula remains the area with the highest growth in the region, with over 48,500 inhabitants compared the data of 31/12/2013 (504 000 inhabitants) with the information on 31/12/2008 (456 000 population), representing a population increase of about 10% in 5 years.