



COSTA RICA

WASTEWATER „LIMON CIUDAD PUERTO“



Client AyA (Instituto Costarricense de Acueductos y Alcantarillados)

Financing World Bank

Duration of Services 07/2013 - 11/2015

Consulting Fee 1 214 025 EUR

Scope of Services

- Analysis, evaluation and preparation of pre-designs
- Analysis, evaluation and preparation feasibility studies
- Final design and technical specifications (Wastewater Systems, Monitoring System)
- Operational control
- Collection of data (SCADA)
- Estimation of costs and budgets
- Environmental studies, visa facilitation, approvals, elaboration of manuals O&M
- Inspection works

Brief Project Description

Limón is a province of Costa Rica with one of the highest percentages of the total population living under very difficult social and economic conditions. This province has a high potential in the field of tourism but it has not been exploited sufficiently. The aim of the project is to improve living conditions by generating employment and therefore contribute to the development of Limón.

The project Limón Ciudad Puerto has been designed in the following phases:

Phase 1: Final design containing 21 phases and a period of implementation of 243 days which includes:



- Analysis, evaluation and preparation of pre-designs and feasibility studies in sector 1, 2 and waste water pre-treatment plant
- Final design and technical specifications of sewer system, profiles, pavement-heights and geometrical designs of roads, rainwater management
- Final design and technical specifications of wastewater systems of sectors 1 and 2
- Final design and technical specifications of monitoring system, operational control and collection of data (SCADA) of the complete project
- Final design for improvement of the wastewater pre-treatment system and marine outfall of the existent plant
- Estimation of costs and budgets, environmental studies, visa facilitation, approvals, elaboration of manuals O&M

Phase 2: Inspection of 3 phases with a duration of 548 days

- AyA is responsible of supervision of works and the Consultant is responsible of inspection works. These inspections are intermittent according to project needs

The services are circumscribed to the tasks of the project management including technical and economic aspects:

- Sewer system for sector 1 (270 ha) and Cerritos (3 ha) including pumping systems (13 pumping stations), monitoring, operational control and collection of SCADA data
- Pavement (geometrical design, profiles and labelling) of 39 km of roads in sector 1
- Rainwater management of sector 1 for roads with a length of 39 km
- Improvement of the distribution system of drinking water of sectors 1 and 2 according AyA's proposal
- Improvement of the existent wastewater pre-treatment plant and marine outfall (1700 m DN 600).



Soils investigations