



VIETNAM

COASTAL CITIES ENVIRONMENTAL SANITATION PROJECT, NHA TRANG SUB-PROJECT PHASE 2, COMPONENTS 1, 2 AND 3



Client PMU People's
 Committee Nha Trang

Financing World Bank

**Duration of
 Services** 07/2011 – 01/2016

**Cost of
 Implementation** 62 Mio USD

Scope of Services

- Assistance to the ESP-PMU
- Contract management
- Support during Tender Evaluation
- Construction Supervision

Brief Project Description

Vietnam's cities have rapidly growing populations. Infrastructure provision particularly drainage, wastewater collection and treatment and solid waste management, have not been a priority and provision has lagged behind the pace of urban growth. This creates environmental and health hazards for residents and hampers economic development.

The Socialist Republic of Vietnam therefore implements the Coastal Cities Environmental Sanitation Project (CCESP) in the three cities Nha Trang, Quy Nhon and Dong Hoi to improve the sanitary conditions in the project cities.



The project in Nha Trang (population of 350,000) covers 3 components as follows:

- **Component 1** - Flood control, drainage and wastewater collection comprising construction of
 - main PS (49,000 m³/day)
 - 1.7km DN 1000 pressure main and 1.4km DN1500 gravity interceptor sewer from Main PS to WWTP
 - river crossing
 - combined sewers (11.2 km, DN 400 – DN 2000)
 - combined sewer box culverts (2.4km, 2m x 3m)
 - 6 PSs and pressure mains (1.7km, DN300 – DN600)
 - 6 Combined Sewer Overflow structures and M&E installation for 3 CSOs
 - tertiary sewers (28.7 km DN 200 – DN 400) and 3,600 house connection manholes
 - M&E, SCADA
- **Component 2** - Wastewater treatment plant
 - WWTP South (initial capacity 40,000 m³/day, ultimate capacity 60,000 m³/day)
- **Component 3** - Solid waste management
 - supply of solid waste equipment (landfill compactor, excavator)
 - development of Luong Hoa landfill site, phase 2 (approx. capacity 3.3 million m³)
 - construction of leachate treatment facilities
 - transfer pumping station for treated leachate and 9km pumping main
 - closure and rehabilitation of Ru-Ri dumpsite

