

INTEGRATED SEWERAGE PROJECT IN PUTRAJAYA, MALAYSIA

LOCATION :-

**Putrajaya Federal Government
Administrative Centre for Malaysia**

OWNER :-

Putrajaya Holdings Sdn Bhd

Putrajaya is being developed as a new Federal Government Administrative Centre for Malaysia as a City in a Garden Concept by Putrajaya Holdings Sdn Bhd (PHSB). The project site is located approximately 25km south of Kuala Lumpur and 20km north of Kuala Lumpur International Airport at Sepang. The Garden City occupy an area of about 4390 hectares of land.

Putrajaya with a targeted population of 588,550 is intended to become the showcase of the country, adopting innovative concepts and ideals in its planning and design to become an ultra-modern city equipped with the latest state-of-art facilities befitting its status as the Federal Government's Administrative Centre. In this connection, the developments of all infrastructures in Putrajaya are also to be developed and designed with the same objectives in mind.

The development of the wastewater system for Putrajaya comprises of modern water-borne sewage collection system with lifting stations and centralized sewage treatment plants (STP). Two sites for the STP have been identified; one to the north-east of the proposed development for STP1 with 75,000 P.E. and the other south for STP2 with 600,000 P.E.

The Works to be implemented include :-

- Sewage Collection Systems
(90km of Trunk Sewer network system)
- Sewage Switching Plant and Pumping Stations (18 nos)
- Sewage Treatment Plant No. 1
(75,000 P.E.)
- Sewage Treatment Plant No. 2
(600,000 P.E.)

SERVICES PROVIDED :-

- Sewerage Master Plan Study
- Conceptual Design
- Detailed Design
- Construction Supervision
- Project Management
- Construction Management
- QA/QC
- Programme Management
- Project Commissioning



Typical Completed Sunken Pump Station

Sewer Network



Laying of 900mm dia. D.I. pipe in progress



Filling of Granular Material to 1500mm dia. pipe trench

STP No. 1 (75,000 P.E.)



M&E Installation



Plant Building

STP NO. 2 (600,000 P.E.)



View of Aeration Tank



View of Final Settlement Tank



View of Sludge Dryer