

**PROJECT :-**

**BAYAN BARU SEWAGE TREATMENT WORKS**

**LOCATION :-**

**Bayan Baru, Penang,  
Malaysia**

**PROJECT COST :-**

**RM160 Million**

**CLIENT :-**

**Sewerage Services Department,  
Ministry of Housing And Local Government**

**COMPLETION DATE :-**

**Dec 2003**

The Project comprises the construction and erection, completion, operation and maintenance of a sewage treatment plan (STP) catering for a population equivalent (PE) of 400,000 for Bayan Baru, to replace the two (2) existing oxidation ponds.

**The Detail Works include :-**

- Main inlet pump station
- Preliminary treatment tank
- Modified oxidation ditch
- Clarifier
- Effluent collection chamber and outfall
- Chlorine contact tank
- Surplus activated sludge tank
- RAS/SAS sludge pump station
- Sludge thickening and dewatering buildings
- Reclaimed effluent pump station
- Tank reception facilities
- Sludge storage tank and building
- Administration building and maintenance workshop
- Electrical substations

**SERVICES PROVIDED :-**

- Planning and Detailed Design
- Project Management
- Programme Management
- Design Management
- Construction Supervision
- Contract Administration



**Modified Oxidation Ditch (MOD) No. 1**

**View of Clarifiers**



**Overall STP Layout Plan**