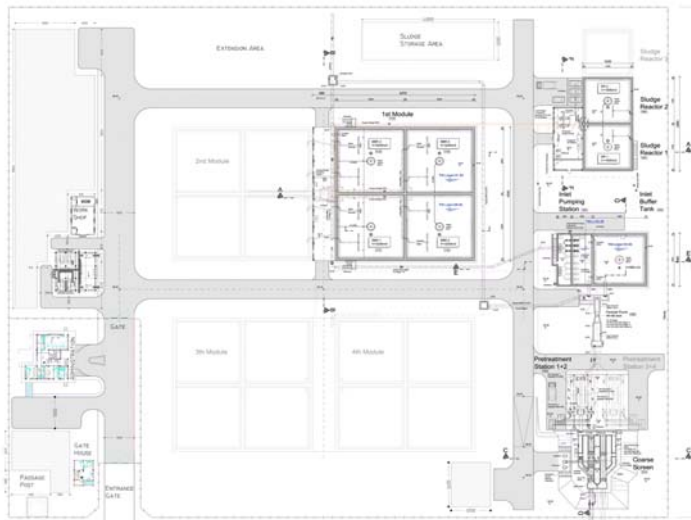


IRAN - Kish

Kish Island Sewage Treatment Plant



Regierungsbaumeister
SCHLEGEL



Client

Jyane Construction Co.

Period

since 2009

Project Cost

8.000.000 €

Abstract

The island of Kish in the Persian Gulf is a touristic hot spot in the I.R. of Iran. With the growing number of visitors each year, a new wastewater treatment plant is necessary to avoid negative environmental impacts, caused by the untreated wastewater. Due to the uneven production of wastewater, the SBR technology was chosen for the treatment process. The WWTP is initially designed for 40,000 PE and will later be extended to reach a capacity of 160,000 PE. The pre-treatment is done by a compact station with integrated screening and grid separation. The SBR tank is divided into four chambers, each with a capacity of 3,200 m³. The sludge is dewatered by centrifuges and thermally treated at a later stage to reach the requirements of the sludge class "A", based on the EPA standards. Schlegel Consulting Engineers has been working on the detailed design for the entire plant, including all hydraulic and static calculations.

Scope of Service

pre-design, design, approval design,
execution design, preparation of tender
documents, construction supervision
planning of structural framework
technical equipment

hydraulic calculation
detailed design

Technical Data

SBR - Technology

1 st extension phase	40,000 PE
Max. wastewater flow	10,000 m ³ /d
Peak flow	910 m ³ /h

Final extension phase	160,000 PE
Max. wastewater flow	40,000 m ³ /d
Peak flow	3,640 m ³ /h