



W.O.G TECHNOLOGIES Pte. Ltd.

(Process Technologies & Solutions)

Commitment Towards Cleaner Environment

Patong Municipality, Phuket, Thailand - A Case Study

A SEWAGE WATER TREATMENT & RECYCLING / REUSE PLANT



Patong is a beach resort town on the west coast of Phuket Island, in the southwest of Thailand. It is main tourist area on the island of Phuket with 20,000 permanent residents. **Patong Municipality's** main duties in the area includes supply of Tap Water and waste management. To meet increasing demand of fresh water, WOG partnered Patong Municipality to install and operate a 25 MLD Sewage treatment and water recycling plant on BOOT basic for 30 years concession. The plant produces high quality potable water from sewage meeting quality standards of produced tap water specified by Provisional Water Authority (PWA).

Patong Municipality awarded contract to WOG Technologies based on credentials and reliability. WOG is continuously recycling sewage to potable water in Phuket, a famous Tourists Destination

Year of Installation: 2013

Plant Details:

Parameter	Unit	Inlet	Outlet
Flow Rate	m ³ /d	25,000	22,500
BOD	mg/L	30	ND
COD	mg/L	150	<05
TSS	mg/L	850	ND
TDS	Mg/L	1250	<450

Treatment Scheme: Flash Mixer – Flocculator – Lamella Clarifier – Gravity Sand Filters – Ultra Filtration System – Micron Cartridge Filters – Two Stage of Brackish RO (90 % Recovery) to produce Tap Water Quality

Scope of Work: The scope of work included capital investment, complete design, engineering, manufacturing, supply, installation, commissioning, start-up, and performance and reliability tests, operation and Maintenance of the plant.

LOOK OF THE INSTALLATION



BENEFITS

Availability of High Quality Potable Water at Lower Rates.
Create more employment opportunities for the host community for the next 30 years
Minimizing disposal of waste water in the environment

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