

SEWAGE WATER TREATMENT AND RECYCLING/REUSE PLANT, PHUKET

WOG Technologies partnered with Patong Municipality, Phuket, to address rising freshwater demand by installing and operating a 25 MLD sewage treatment and water recycling plant on a 30-year BOOT concession.

The plant produces high-quality potable water from treated sewage, meeting standards set by the Provisional Water Authority (PWA).

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Challenges

- Growing freshwater demand in a major tourist hub.
- Limited availability of clean water for residents and visitors.
- Need for sustainable wastewater management to minimize environmental impact.
- Ensuring reliable, long-term operation in a high-tourist area.

Solutions

- Multi-stage treatment: Flash → Floc → Lamella → Sand → UF → Cartridge → 2-stage RO (90% recovery)
- End-to-end delivery: Design, engineering, supply, installation, commissioning, and 30-year O&M
- BOOT model: Ensures long-term sustainability and community benefits

Results

Flow Rate	25000	22500
m ³ /day	m ³ /day	m ³ /day
PARAMETER	INLET	OUTLET
BOD	30 mg/l	ND
COD	150 mg/l	<5 mg/l
TSS	850 mg/l	ND
TDS	1250 mg/l	<450 mg/l

For detailed techno-commercial proposal or site visit coordination,

✉ **Drop us an e-mail at:**
info@woggroup.com

Impact

- Affordable potable water for residents & tourists
- Reduced environmental wastewater disposal
- Long-term local employment (30 years)
- Improved sustainability and resource efficiency