

# SEAWATER DESALINATION, PATONG MUNICIPALITY, PHUKET

**WOG Technologies partnered with Patong Municipality, Phuket, to meet rising freshwater demand by installing and operating a 25 MLD seawater desalination plant on a BOOT basis.**

The plant takes 75 MLD of seawater and produces 25 MLD of high-quality potable water, meeting potable water standards for the community and tourists.

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## Challenges

- Increasing demand for potable water in a major tourist hub.
- Limited availability of freshwater resources and need to reduce groundwater exploitation.
- Managing seawater intake, piping and reject discharge sustainably.
- Ensuring long-term reliability and community benefit.


## Solutions

- Seawater treatment: Intake → Self-Cleaning Filters → UF → Cartridge → RO (40% recovery)
- End-to-end delivery: Design, supply, installation, commissioning, and 30-year O&M
- BOOT model: Long-term sustainability and community benefits

## Results

Flow Rate	75000	25000
m <sup>3</sup> /day	m <sup>3</sup> /day	m <sup>3</sup> /day
PARAMETER	INLET	OUTLET
Turbidity	<10 NTP	<1 NTP
Silica	<1 mg/l	ND
TSS	<15 mg/l	ND
TDS	43546 mg/l	<600 mg/l

**For detailed techno-commercial proposal or site visit coordination,**

 **Drop us an e-mail at:**  
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## Impact

- 40% recovery through RO system for efficient water use.
- Reliable water supply for residents and tourists.
- Continuous production of high-quality potable water from seawater.