

تحدي
عمان لتطوير أنظمة
التحلية الفردية لحالات
الكوارث الإنسانية



OMAN
HUMANITARIAN
DESALINATION
CHALLENGE

The Oman Humanitarian Desalination Challenge seeks to deliver a hand-held, stand-alone, low-cost, desalination device for short-term use and rapid deployment following humanitarian crises



HAND-HELD

The device will be hand-held and easily transportable



LOW-COST

The estimated production cost of the device will be \$20



ROBUST

Resilient, corrosion resistant, operated through pictorial instructions, long shelf-life, minimal use of easily lost parts



PRODUCTION

Device will produce a minimum of 3 liters of purified water per day, including cloudy days



STAND-ALONE

There will be no addition of chemicals, fuel, or other external materials, other than the the seawater to be purified



SHORT-TERM USE

The device will operate for a minimum of 30 days



QUALITY

Device will purify 100 NTU, 35,000 mg/L seawater to 1000 mg/L TDS and meet WHO maximum contaminant levels

