Miranda Wastewater Solutions for

Oil & Gas Camps ···

Exxon - Chevron - Mobil Oil Camps

Case Study for Miranda STP System

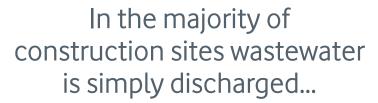
Construction Site Design Data

Total Population	: 250 people	
Water Usage for Capita	: 200 lt / person	
Daily Wastewater Flowrate	: 50 m³/day	
The Quality of Treated Water	: Discharge	
Water Supply	: External Network	









Exxon, Chevron & Mobil contribute to preserving our planet by discharging after treatment to the highest acceptable standard.









Miranda Wastewater Solutions for

Oil & Gas Camps ···

C

Operational Advantages

- Miracell is simple to operate
- Requires a short 1 day training
- Requires minimal maintenance by any person
- System start-up to produce satisfactory treated water within 2 weeks after installation.
- Easy sludge disposal at comfortable frequency.
- System can be serviced by Miranda through local representatives or any trained technical maintenance team servicing the construction site facilities.

FEATURES

Modular, Portable, Minimal footprint, Cost saving, Low maintenance cost, Low energy consumption, Minimal sludge production, Easy installation and commissioning.

BENEFITS

Can save significant costs of pump out trucks, Possible usage for concrete mixing & dust removal, Irrigation of landscape, Minimize surface cracking during concrete mixing.

Can be installed Indoors & Outdoors or buried in ground

MIRANDA recycles waste water in conformity with discharge norms (BOD 45, COD 120, TSS 45).



Skid Mounted Miracell MC50 Wastewater Treatment plant purchased by Exxon Mobil for their drilling camp in Iraq.





Operational Costs of the Miranda System

50 m³/day Capacity Miracell White W.W.T.P.
Operation Cost Table Exxon - Chevron - Mobi

Operation Cost Table Exxo	n - Chevr	on - Mobil
ENERGY CONSUMPTION		
A. WASTEWATER TRANSFER PUMP		0,55 kW
Power		0,44 kW
Amount		1 pcs
Treated Water Per Month Daily Running Time		1500 m³ 20 hour
Energy Consumption Per Month		264 kW
Cost Per Month	74,9 TL	29,1 \$ / Month
Cost Per m³	0,05 TL	0,02 \$/m³
B. MIRACELL GEARBOX & MOTOR		0,25 kW
Power		0,20 kW
Amount Treated Water Per Month		1 pcs 1500 m³
Daily Running Time		24 hour
Energy Consumption Per Month		144 kW
Cost Per Month	40,9 TL	15,9 \$ / Month
Cost Per m ³	0,027 TL	0,011 \$/m³
C. CHLORINE DOSAGE PUMP		0,016 kW
Power		0,0128 kW
Amount Treated Water Per Month		1 pcs 1500 m ³
Daily Running Time		20 hour
Energy Consumption Per Month		7,68 kW
Cost Per Month	2,2 TL	0,8 \$ / Month
Cost Per m ³	0,0015 TL	0,0006 \$/m³
Total Annual Energy Cost	1.416 TL	
Total Annual Energy Cost Per m³	0,08 TL	0,03 \$
FIXED DATA		
Exchange Rate : 2,58 TL / \$		Power: 0,8
Daily / Monthly Flow: 50 m ³ / 1500 m ³		
Electric Cost : 0,2838 TL - 0,11 \$ / kV	Vh 1 Month	: 30 days



Miranda is proud to assist in saving significant amounts of funds while contributing to the environment.