



Equipment List: Maxmobil SWRO 500,000TPD

Item	Name	Specifications	Make/Brand	Qty	Unit
1	Water intake unit				
1.1	Intake pump	Type:centrifugal pump Q=50m3/h,H=23m Casing/Shaft/wheel:SS904L	Grundfos/equivalent	1	set
2	Sand filter unit				
2.1	Feed water pump	Q=50m3/h,H=40m,Casing/Shaft/wheel:SS2205	Grundfos/equivalent	1	set
	VFD	7.5kW	ABB/equivalent	1	set
2.2	Sand filter	Automatic	PPFG	1	set
	Sand filter tank	Φ1200x1800,FRP,with water distributor	PPFG	3	set
	Quartz sand	1~4#	PPFG	6.7	Ton
	Pipeline	PN10,UPVC	HuanQi/equivalent	1	set
	Frame	Carbon steel anti-corrosion	PPFG	1	set
3	Reverse osmosis unit				
3.1	FirstA large flux filter	40t/h, melt-blown, with filter element	PPFG	1	set
	Secondary large flux filter	40t/h, folded, with filter element	PPFG	1	set
3.2	High pressure pump	Q=22m3/h, H=700m, SS2507	Wore/equivalent	1	set
	VFD	55kw	ABB/equivalent	1	set
3.3	Energy recovery device	Q=26m3/h, ceramic	ERI/equivalent	1	set
3.4	Booster pump	Q=26m3/h, H=40m, SS2507	ABD/equivalent	1	pcs
	VFD	5.5kw	ABB/equivalent	1	pcs
3.5	Reverse osmosis unit	Rated water production:21m3/h	PPFG	1	set
	RO membrane housing	8 inch 7 core, 1000psi, FRP	ChengDa/equivalent	5	pcs
	RO membrane	Coated polyamide composite membrane	HYDRANAUTICS/equivalent	35	pcs
3.6	UV Tterilizer	SS304	High quality China products	1	set

3.7	Valve pipe		PPFG	1	set
	High pressure valve	PN100,SS2205	High quality China products	1	set
	High pressure piping	PN100,SS2205	PPFG	1	set
	Low pressure valves and piping	UPVC	HuanQi/equivalent	1	set
	Frame	Carbon steel anti-corrosion	PPFG	1	set
4	Chemical dosing unit				
4.1	Flocculant addition module	Contains metering pump and medicine tank		1	set
	Metering pump	Q=1.6L/h,H=7.6bar, including the suction assembly	SEKO/equivalent	2	set
	Dosing tank	100L,PE,white	High quality China products	1	pcs
4.2	NaClO(10%) dosing system	Contains metering pump and medicine tank		1	set
	Metering pump	Q=1.6L/h,H=7.6bar, including the suction assembly	SEKO/equivalent	2	set
	Dosing tank	100L,PE,white	High quality China products	1	pcs
4.3	Scale inhibitor addition module	Contains metering pump and medicine tank		1	set
	Metering pump	Q=1.6L/h,H=7.6bar, including the suction assembly	SEKO/equivalent	2	set
	Dosing tank	100L,PE,white	High quality China products	1	pcs
4.4	SMBS dosing system	Contains metering pump and medicine tank		1	set
	Metering pump	Q=2L/h,H=7.6bar, including the suction assembly	SEKO/equivalent	2	set
	Dosing tank	100L,PE,white	High quality China products	1	pcs
4.5	Valves and piping	UPVC	HuanQi/equivalent	1	set
4.6	Frame	Carbon steel anti-corrosion	PPFG	1	set
5	CIP/Rinsing unit				
5.1	Rinsing /CIP tank	2000L,PE,conical bottom	High quality China products	1	pc
5.2	Rinsing/CIP pump	45m ³ /h,H=30m,SS316L	Grundfos/equivalent	1	set
5.3	CIP security filter	30m ³ /h,UPVC,with filter bag	High quality China products	2	set
5.4	Valves and piping	UPVC	HuanQi/equivalent	1	set
5.5	Frame	Carbon steel corrosion protection	PPFG	1	set
6	Instrumentation and control				
6.1	Appearance			1	set
6.2	Electric & Control		PPFG	1	set
	General control cabinet	Siemens PLC, Schneider/Omron components	PPFG	1	set
	MCC cupboard	Schneider Components	PPFG	1	set

	Touch screen kit	TP900	Siemens/equivalent	1	set
	Cables and trays		PPFG	1	set
7	Container				
7.1	40GP	Including anti-corrosion decoration、 air conditioning、 insulation	China	1	set
8	Serve				
8.1	System design and manufacturing		PPFG	1	set
8.2	Installation guide	Travel expenses and onsite service are calculated separately	PPFG	10	pppd
8.3	Debugging tools/materials		PPFG	1	set
8.4	Commissioning test	Travel expenses and onsite service are calculated separately	PPFG	10	pppd

Q express flowrate, H express head of pump or height of filters, P express power rate of motor.

