

Costs for solar pumping project

Materials		incl GST
Fence		
	18x used bridge panels for fencing	\$2,340
	Used 32nb pipe for ground mount \$2.50/m	\$140
	1.5" pipe for fencing	\$250
	7m3 Concrete (Includes Pontoon Anchor)	\$1,869
	108 M20x150mm Anchor bolts, nuts and washers	\$477
	70 M12x80 nuts bolts and washers	\$110
	Chemical injection	\$200
		\$5,386
Spray Crete		
	Cement	\$150
	Sand	\$180
		\$330
Ground Mount		
	Hardwood 4x2" 24@4m \$2/lm	\$192
	Roof sheeting 96lm@\$3/m	\$288
	Roofing screws x754	\$30
	Flashing 30lm and screws	\$418
	12x Ground Screws	\$240
	M12 Threaded rod bracing, nuts and washers	\$227
	Reinforcing	\$120
		\$1,515
Array and Rails		
	12 225W panels and Rails	\$500
	3kw of rails	\$50
	24x270W solar Panels and rails	\$1,800
	6x250W solar Panels	\$300
	Solar rail parts	\$384
	Bird spikes	\$202
		\$3,237
Pump, Inverter & Electrical		
	Solar pump and inverter	\$6,865
	2 lengths 40mm conduit and bend	\$40
	Gal Spray	\$17
	Electrical cable, conduit and plugs	\$1,172
	Shielded Drive Cable	\$22
	Braided Cable	\$20
	Cable glands and electrical fittings	\$86
	J Box and terminal strips	\$76
	Cable and connectors	\$52
	Surge arrestors	\$110
	24V Surge arrestors	\$596
		\$9,056

Pipe and Fittings		
	Pipe fittings	\$68
	Pipe fittings, gauges, flow switch, pressure switch	\$1,130
	Pressure tank and fittings	\$446
		\$1,644
Pontoon		
	16' catamaran	\$100
	14' catamaran	\$150
	3 Pontoon floats and ramp	\$250
	Pontoon repairs	\$40
	Scrap Aluminium for pontoon jetty	\$490
	Reinforcement	\$75
	Stainless pipe for pontoon piers	\$150
	Concrete for pontoons	\$495
	Concreting labour	\$521
	Plastic rod to make pontoon bungs	\$26
	Stainless threaded rod for pontoons	\$19
	Stainless Bolts for Pontoons	\$159
	Mig gas and tips	\$117
	Aluminium angle	\$64
	Stainless bracing wire fittings	\$138
	Stainless Turnbuckles	\$83
	Stainless screws	\$205
	Fibreglass and timber decking	\$200
	Stainless screws	\$274
		\$3,556
Flying Fox		
	Steel wire for creek catenary	\$162
	Stainless hooks and wire	\$27
	2 100x10 gal angle posts for creek catenary	\$30
	Boat winch for catenary	\$40
	2nd hand boat winch	\$5
	Stainless shackles and rope grips	\$45
	Expanding foam for floats	\$35
	Stainless Shackles	\$17
	Stainless shackles and rope grips	\$45
	Stainless rope grips	\$20
	Polyester Rope	\$65
	PVC pipe for 2nd Stillage tube	\$22
		\$514
	Project Materials Cost	\$25,238
Equipment hire		
	7hrs Hydraulic auger	\$250
	32m concrete boom pump	\$530
	1 hr crane truck hire	\$100
		\$880

Labour

Owners labour not included	83hrs at \$33/hr	\$2,739	
Estimate 400hrs	Electrical Mega test	\$132	
			\$2,871
TOTAL PROJECT COST			\$28,989