

Table 3 – AWS Components

Designator	Component	Number	Cost per unit - currency	Total cost - currency	Source of materials	Material type
	<i>Arduino Uno</i>	1	16	16	https://www.filipeflop.com/produto/placa-uno-r3-cabo-usb-para-arduino/	Other
	Wind Sensors Kit	1	76.90		https://www.sparkfun.com/products/8942	Other
	BMP280	1	7.2		https://www.filipeflop.com/produto/sensor-de-pressao-e-temperatura-bmp280/	Other
	DHT22	1	12		https://www.filipeflop.com/produto/sensor-de-umidade-e-temperatura-am2302-dht22/	Other
	DS18B20	1	6.8		https://www.filipeflop.com/produto/sensor-de-temperatura-ds18b20-a-prova-dagua/	Other
	RTC DS1307	1	2.5		https://www.filipeflop.com/produto/real-time-clock-rtc-ds1307/	Other
	LDR	1	0.4		https://www.filipeflop.com/produto/sensor-de-luminosidade-ldr-5mm/	Other
	HC-SR01	1	3		https://www.filipeflop.com/produto/sensor-de-distancia-ultrassonico-hc-sr04/	Other
	Resistor 10k	1	0.1			Ceramic
	Resistor 4k7	1	0.1			Ceramic
Micro SD Card Shield	SD CARD	1	2.35	2.35	https://www.filipeflop.com/produto/modulo-cartao-micro-sd/	Other
PCB card	PCB card	1(10cmx10)	1.5	1.5		Composite fiberglass and copper
Pin Bar	Pin bar 1x40 180°	2	0,5	1	https://www.filipeflop.com/produto/barra-de-pinos-1x40-180-graus/	Plastic and steel
	NiCad Battery 12V - 7Ah	1	47		https://www.minhacasasolar.com.br/produto/painel-solar-10w-kyocera-solar-kst10-79220?atributo=178:UNICA&atributo=25:U&atributo=26:UNICA	Other
	Solar Panel 10W	1			https://www.minhacasasolar.com.br/produto/controlador-de-carga-de-10a-12v-24v-ep-solar-ls-e-ls1024e-78507?atributo=178:UNICA&atributo=25:U&atributo=26:UNICA	Other

waterproof case	0.40m x 0.25m x 0.15m (approximately)	1				polycarbonate
	Charge controller 10A/ 12V	1	25	25	https://www.minhacasasolar.com.br/produto/controlador-de-carga-de-10a-12v-24v-ep-solar-ls-e-ls1024e-78507?atributo=178:UNICA&atributo=25:U&atributo=26:UNICA	Other