

Solar Prang

Bill of Materials

Estimated costs are based on 2026 retail pricing in Thailand. Printing estimates assume either self-printing (material cost) or commercial print services. Some consumables reflect the initial purchase cost and can be reused across multiple projects.

Item	Description	Estimated Cost (USD)	Qty
1	Prang Top Section (3D Printed ~9 hours)	~\$1–12	1
2	Prang Middle Section (3D Printed ~12 hours)	~\$2–15	1
3	Prang Bottom Section (3D Printed ~17 hours)	~\$3–20	1
4	55 mm × 55 mm Solar Panel (DC)	\$2.50	8
5	Manual Volt Gauge	\$2.50	1
6	Manual Amp Gauge	\$2.50	1
7	Conductive Graphite Paint	\$15–20	1
8	Copper Sulfate (200 g)	\$7	1
9	Distilled Water (4 liters)	\$5	1
10	Battery Acid (1 liter)	\$1	1
11	Copper Anodes	\$2.50	2–4
12	Lacquer Spray	\$2	1
	Estimated Total	~\$59–105	
	Estimated Print Time	~38 hours	