

Items	Unit of Measurement	Price per unit	Quantity	Cost	Data Sources	Full Reference with link	Comments
Green : Categories and figures to edit Red : Calculation not to be edited Blue : Compulsory source of data							
Costs							
Fixed Costs							
Solar pump	per cycle	\$114,29	1	\$114,29	Provider scenario	https://agrilinks.org/post/building-better-solar-irrigation-	Purchase price: USD 1,600. Useful life: 7 years. 2 production
Controller	per cycle	\$17,86	1	\$17,86	Assumption	https://iwmi.cgiar.org/what-we-do/farmer-led-irrigation	Assumed component price: USD 250. Useful life: 7 years. 2
Pump cable	per cycle	\$3,57	1	\$3,57	Assumption	Provider/SBIB component allocation assumption	Assumed component price: USD 50. Useful life: 7 years. 2
Adaptors / fittings	per cycle	\$10,00	1	\$10,00	Assumption	Provider/SBIB component allocation assumption	Assumed component price: USD 100. Useful life: 5 years. 2
Pipes	per cycle	\$5,00	1	\$5,00	Assumption	Provider/SBIB component allocation assumption	Assumed component price: USD 100. Useful life: 10 years. 2
Solar panels + mounting/cabling	per cycle	\$160,00	1	\$160,00	Assumption	SBIB package assumption	Assumed component price: USD 1,600. Useful life: 5 years, as
Shipping and transportation	per cycle	\$250,00	1	\$250,00	Assumption	SBIB package assumption	One-time transport/logistics assumption. Not amortized.
Installation and setup	per cycle	\$450,00	1	\$450,00	Assumption	https://gruene-buergerenergie.org/en/	One-time installation assumption. Not amortized.
Water storage tank + stand	per cycle	\$25,00	1	\$25,00	Assumption	https://www.ghana.accessbankplc.com/sustainable-	Assumed component price: USD 250. Useful life: 5 years. 2
Drip irrigation system	per cycle	\$35,00	1	\$35,00	Assumption	SBIB package assumption	Assumed component price: USD 350. Useful life: 5 years. 2
Sprinkler / alternative water application equipment	per cycle	\$10,00	1	\$10,00	Assumption	SBIB package assumption	Assumed component price: USD 100. Useful life: 5 years. 2
Training / initial user orientation	per cycle	\$0,00	1	\$0,00	Provider / no cost	Provider submission	No cost supplied.
Operational Costs							
Raw Material Supply – Cost of inputs needed for processing	per cycle	\$100,00	1	\$100,00	Provider	Provider-submitted financial information	Semantics adapted to SBIB: production inputs/seed cost.
Labor Costs – Salaries or wages for operators	per cycle	\$300,00	1	\$300,00	Provider	Provider-submitted financial information	USD 60 × 5 persons = USD 300 per cycle.
Utilities: Costs of energy, water, and other utilities consumed	per cycle	\$400,00	1	\$400,00	Provider	Provider-submitted financial information	USD 80 × 5 units = USD 400 per cycle; retained from provider
Maintenance & Repairs: Regular servicing and unforeseen repair	per cycle	\$0,00	1	\$0,00	Not provided	N/A	No recurring maintenance/repair cost supplied; not
Consumables: Items like lubricants, filters, and other materials	per cycle	\$0,00	1	\$0,00	Not provided	N/A	No recurring consumables cost supplied.
Loan Repayments – If financed, include monthly repayments and	per cycle	\$0,00	1	\$0,00	Financing	SBIB financing structure	Financing structure: 30% upfront and 70% balance over 6
Depreciation – Annual reduction in equipment value.	per cycle	\$0,00	1	\$0,00	Calculation	This file applies amortization directly in Price per unit	Depreciation is embedded directly in the Price per unit for
Insurance – Cost to insure equipment against risks.	per cycle	\$0,00	1	\$0,00	Not provided	N/A	No insurance cost supplied.
Regulatory Fees & Licenses – Permits required for processing	per cycle	\$0,00	1	\$0,00	Not provided	N/A	No regulatory fee supplied.
Waste Management – Disposal costs for byproducts or waste.	per cycle	\$0,00	1	\$0,00	Not provided	N/A	No waste management cost supplied.
				\$0,00			TIME BASIS: 2 production cycles per year. All costs and
				\$ -			
Total Cost				\$ 1 880,71			
Revenue							
Pepper sale	100 kg bag	\$89,00	25	\$2 225,00	Provider	Provider-submitted financial information	Revenue per production cycle: USD 89 × 25 bags = USD
				\$ -			
				\$ -			
Total revenue				\$ 2 225,00			
BCA				118,31%			
ROI				18,31%			