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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (USD)	AMOUNT (USD)
	Preliminary				
1.1	Project visibility wall painting and branding work	SUM	1	0	0
	CARRIED TO COLLECTION AT END OF ELEMENT 1 (SITE PRAPARATION)				0
	Power supply works				
1.2	Supply, install, test with manufacturer certifcate: Submersible pump, pump operating at a nominal flow rate of 4 m³/h (approx. 1.11 l/s) at a total dynamic head of 25 m, suitable for a 12 m shallow well water level depth; riser pipe as per relative drawings and solar pump controller inclusive with all accessories (non-return valve, butterfly valve, connection joint, etc.).The pump must stop when the minimum level inside the well is reached, i.e., the pump has to be furnished with a minimum control level switch electric cable inside a 3" corrugated pipe to connect the pump with the solar inverter/controller panel system; warranty of pump 2 years; instructions and manuals.The system operates as a direct-to-tap distribution network without intermediate water storage, where pump operation is driven directly by solar irradiance availability and protected against system overpressure via the integrated solar pump controller logic.The pump unit, motor, and internal liquid-contact components must strictly comply with European Union (EU) standards, carrying the official CE mark certification, or an approved equivalent meeting EU Ecodesign Directive efficiency standards.	LS	1	0	0
	CARRIED TO COLLECTION AT END OF ELEMENT 2 (POWER SUPPLY WORKS)				0
	Pipelines				
1.3	Supply and laying of pipes (bars / rolls) in high density polyethylene sigma 80 PE 100 non-toxic suitable for the transport of drinking water and to be potable, and / or for the transport of food fluids, in compliance with the UNI EN 12201 standard and hygiene requirements health . The correspondence of the material supplied must be guaranteed by test reports issued by qualified bodies. The Works Management may have acceptance tests carried out by an authorized institute, at the expense of the supplier and on a sample of the material supplied, in compliance with the standard. The price includes the costs of excavation, (if not a specific item has been foreseen), refilling, joints by butt welding, the installation of all the special pieces both underground and inside the bedrooms , the housing of the retina in ferrous signaling material, the coating, which must be made with washed gravel size 7-15 mm, suitably leveled and compacted, with a degree of compaction not less than 90% Proctor standard, compaction will be carried out every cm 20 of carryover and any other charge to give the work finished in a workmanlike manner and according to the instructions given by the Engineer. The pipe must be positioned with the correct alignment and with a slope according to the project levels, must not be damaged by shocks or by incorrect use of the mechanical means used for laying and compaction. Pressure class PN 10 bar. SUPPLY AND LAYING OF POLYETHYLENE PIPES PN 10 DENSITY SIGMA 80 PN 10 DN 90 mm to connect the well to reservoir + all accessories (valves and distribution system) required;	m	200	0	0
1.4	Supply and install a graduated rod for future monitoring, for the registration of water levels inside the well. The system needs to be visible from the top.	LS	1	0	0
	CARRIED TO COLLECTION AT END OF ELEMENT 3 (PIPELINES)				0
	Safety equipment				
1.5	Supply and installation of protective fence fence around the shallow well and solar power system with minimum perimeter length of 100 m and minimum fence height of 2.00 m, made with galvanized and plasticized wire mesh in the color chosen by the engineer with rhomboidal mesh of mm. 50x50, fixed to the upper and lower galvanized and plasticized wires, with a diameter of 2.8 mm, and to an adequate number of intermediate wires, complete with blades and T-shaped of mm. 40x40 in galvanized and plasticized steel, performed in a workmanlike manner and according to the indications of the engineer, on prefabricated concrete plinths with dimensions of 30x30 / 14x14 cm and H = 48 cm with appropriate hole, for housing the columns, gate and access door.	M	50	0	0
	CARRIED TO COLLECTION AT END OF ELEMENT 4 (SAFETY & EQUIPMENT)				0
	TOTAL COST OF SHALLOW WELL WATER SYSTEM				**$** -

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (USD)	AMOUNT (USD)
	Photovoltaic modules				
2.1	Supply and installation of complete 3.3kW solar photovoltaic power system for shallow well water supply operation, including 6 photovoltaic modules each rated at 550W, galvanized steel/aluminium support structure mounted on concrete foundations, solar pump inverter/controller, shallow well pump connections, combiner box, soft starter, control panel, switch gear, protection devices, DC and AC cables, MC4 connectors, cable joints, cable ducts/conduits, earthing system, lightning protection system, isolators, circuit breakers, and all mechanical and electrical accessories required for a fully operational shallow well solar pumping system. The system shall be fully installed, tested, commissioned, and handed over in accordance with the drawings and Engineer's instructions, excluding batteries.	LS	1.00	$ -	$ -
				TOTAL COST OF POWER SYSTEM	**$ -**

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No	Item	Number	Unit Cost [US$]	Total Cost [US$]
1	Well/Spring Rehabilitation	1.00	$ -	$ -
2	Power Generators with PV System	1.00	$ -	$ -
	TOTAL COST OF PROJECT			**$ -**