

To be copied in the TENDER DOCUMENTS (to be provided to the Contractors)

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (USD)	AMOUNT (USD)
Preliminary					
1.1	MOBILIZATION: Allow for the cost of transporting all Materials ,equipment, and personnel to site and demobilization at completion of contract.	LS	1	\$ -	\$ -
1.2	Clear the site of all bushes, shrubs vegetation and other objects as instructed by the Engineer	LS	1	\$ -	\$ -
1.3	Project visibility wall painting and branding works.	LS	1	\$ -	\$ -
	Sub-total				\$ -
1.4	Supply, installation, testing, and commissioning of an industrial-grade, 3-phase (380V/50Hz) submersible borehole pump-motor unit rated at 11 kW (15 HP) and engineered to deliver a nominal capacity of 30 m³/hr at 180 meters Total Manometric Head (TMH). Built for long-term deployment in deep aquifers, the assembly features a high-grade AISI 304 stainless steel outer body sleeve, shaft, and sand-resistant internal impellers, complete with a heavy-wall 3-inch (DN80) PN16 HDPE riser pipe column, 190 meters of heavy-gauge 10mm² H07RN-F rubber submersible flat power cable, and a 4mm AISI 316 stainless steel safety lifting rope. The standalone system includes a 3-inch wellhead manifold assembly packed with a manual gate valve, secondary non-return valve, dynamic kinetic air-release valve, and an oil-filled pressure gauge, all automated via a wall-mounted IP55 electrical control panel outfitted with a Star-Delta or Soft-Starter, phase-failure/reversal relays, thermal overload breakers, and low-level dry-run well probe sensors to ensure complete operational safety before final integration into your network.	LS	1.00	\$ -	\$ -
	Sub-total				\$ -
Pipelines					
1.5	Supply and laying of HDPE polyethylene pipes PE100 Sigma 80, PN10, DN63mm (2 inch diameter), including excavation of trench to 0.5m depth, bedding preparation, laying of pipes, butt welding joints, fittings, valves, warning mesh, gravel surround, backfilling, compaction, testing, and all accessories required to connect the borehole well to the reservoir complete as directed by the Engineer.	m	500.00	\$ -	\$ -
	Sub-total				\$ -
TOTAL COST OF ROOX BOREHOLE REHABILITATION					\$ -

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Site clearance					
2.1	Site clearance: excavation and removal of top soil, wheel and deposit on site as directed	LS	1.00	\$ -	\$ -
Excavations					
2.2	Excavation for slab foundation (7m x 6m, in all kinds of soil including dressing of bottom if necessary and sides of trenches. Stack excavated soil clear from edges of excavation and subsequent back filling around masonry in 15cm layers with compaction and including disposal of surplus soil out of site as directed by engineer. Not exceeding 300 mm depth	m ³	15.00	\$ -	\$ -
Filling					
2.3	Approved hardcore filling spread well rammed and compacted.	m ³	65.00	\$ -	\$ -
Masonry work					
2.4	Construct structural external stone masonry wall for water storage baret/reservoir using cement sand mortar in the proportion of 1:3 (1 cement : 3 clean coarse sand). The structure shall consist of 600mm deep stone masonry foundation wall below ground level, 1m high stone masonry wall above ground up to plinth level, and 2m high superstructure wall for water storage purposes. The wall thickness shall be 400mm throughout. Internal and external wall faces shall be true to plumb and properly aligned. Corner stones shall be well dressed and laid as headers and stretchers. Bond stones shall be provided at 1m c/c both vertically and horizontally. Masonry shall be laid in courses not exceeding 400mm height. All joints and voids between stones shall be completely filled with cement mortar to ensure water tightness. Internal faces shall receive waterproof cement plaster/rendering suitable for water retaining structures. The wall shall be properly cured, kept moist, and protected from direct sunlight for at least 10 de sensors to ensure complete operational safety before final	m ²	43.20	\$ -	\$ -
Plastering & Painting					
2.5	Apply two layers of plastering for internal external and floor each layer is 10mm thick on internal faces of the walls of retaining water structures, layers are cement mortar, Cement type : ordinary portland cement with design mix with cement sand mortar (1:3) Clean, dry sand should be used. It should be well-graded, comprising particles of different sizes. Cement should have been recently manufactured and have been protected from water vapour during storage and transport. The water used in the mix needs to be clean, preferably of drinking-water quality.	m ²	200.00	\$ -	\$ -

2.6	osmotic cement	kg	220.00	\$	-	\$	-	
2.7	Supply and installation of washable paint for exteriors. The price includes and compensates for the costs for any scaffolding up to a maximum height of the structure from the support surface, the costs for the protection of furniture, fixed systems or the protection of floors, the cleaning of the surfaces to be treated through the use of rags or clean brushes in order to remove easily removable residues. On already prepared civil plaster. For 2 coats with brush or roller. WHITE COLOUR PAINTING	m ²	90.00	\$	-	\$	-	
Water Supply System								
2.8	Supply and installation of water supply system for the water storage baret, including inlet pipe, outlet pipe, overflow pipe, washout pipe, valves, fittings, connectors, and all accessories required for complete filling, distribution, overflow control, and drainage of the baret as directed by the Engineer.	L.S.	1.00	\$	-	\$	-	
Roof								
2.9	Supply and fixing of iron sheet roofing for water storage baret, including galvanized iron sheets, steel/timber roof support structure, purlins, ridge cap, nails/screws, overlaps, flashing, rain protection, labour, tools, and all accessories required to complete the roof covering as directed by the Engineer.	m ²	55.00	\$	-	\$	-	
Safety equipment								
TOTAL FOR WATER TANK							\$	-

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (USD)	AMOUNT (USD)
Photovoltaic modules					
3.1	Supply and installation of complete 22kW direct solar photovoltaic pumping system for borehole and water supply operation, including 40 solar PV panels each rated at 550W, solar pump inverter/controller for direct pumping operation without battery storage, galvanized steel mounting/support structure, combiner box, DC and AC cables, borehole submersible flat cable, MC4 connectors, cable joints, cable ducts/conduits, earthing system, lightning protection system, circuit breakers, isolators, control panel, protection devices, float switch connections, metallic fence and lockable gate around the solar system, galvanized wire mesh, GI poles, concrete foundations, installation, testing, commissioning, and all necessary electrical, mechanical, structural, and protection accessories required for complete and fully operational direct solar powered borehole water supply system in accordance with the drawings and Engineer's instructions, excluding batteries and battery storage system.	LS	1.00	\$ -	\$ -
TOTAL COST OF POWER SYSTEM					\$ -

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No	Item	Number	Total Cost [US\$]
1	Borehole Rehabilitation	1.00	\$ -
2	Water Storage	1.00	\$ -
3	PV Solar System	1.00	\$ -
4	Sub total		\$ -
TOTAL COST OF PROJECT			\$ -