

Bill of Quantities for Construction of Zero Energy Cold Storages (ZECS)

S/N	Description of work	Unit	Quantity	Unit Cost (USD)	Total Cost (USD)	Remark
1	Site preparation, leveling and Mobilization all complete site demobilization and project hand over all complete	LS	1	\$300.00	\$300.00	
2	Earthworks: Excavation of all types of soil including all lead and left all complete	LS	1	\$200.00	\$200.00	
3	PCC works 20 Mpa all complete	m3	210.6	\$4.00	\$842.40	
4	Stone Masonry works for foundation with Cement mortar 15Mpa, all completed	m3	7.1	\$65.00	\$461.50	
5	Dressed Stone masonry with cement mortar 15Mpa, including flash pointing all complete. See technical drawings	m3	148.6	\$40.00	\$5,944.00	
6	Compaction and backfilling from granular material in 15cm each layer min 95% compacted. All complete	m3	46.3	\$80.00	\$3,704.00	
7	Boulder soling all complete see technical drawings	m3	26.3	\$5.00	\$131.50	
8	Provide and installations of Clay pipe 4" dia, 90 degree bend & covered with brass wire mish screen. All complete see drawing	m3	9.9	\$11.00	\$108.90	
9	Cavity and filling around pipe all filling with wet sand course: all complete	m3	52.4	\$9.00	\$471.60	
10	Prefabricated double panel, insulated casement 4.5mm tick steel door. Including all hardware's, brass wire net & casement, and fixtures fabricate painted all completed	m2	6.8	\$50.00	\$340.00	
11	See drawings and Technical Specification					

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	Fabricated Hard Wood Wooden Window. Including all hardware's, fixtures, Glazing, brass wire net & tow coat						
12	site painting by Black Japan. all completed see Drawings RCC works per approved steel design drawings. Including	m2	18.1	\$65.00	\$1,176.50		
13	formworks, steel works all complete see drawings	m3	30	\$150.00	\$4,500.00		
14	Roofing: wooden works for beams and joist all complete see drawing	m3	2.1	\$350.00	\$735.00		
15	Provide wooden Plank and installation over wooden joist (200x30mm). All complete see drawings. Included two coat of Painting work	m2	80.92	\$25.00	\$2,023.00		
16	Compacted Clay soil with straw (Mud cover) in 30mm thickness Over double layer 0.2mm tick plastic sheet. All complete	m3	2.2	\$3.00	\$6.60		
17	Mud cover (110mm) one layer. All complete	m3	8.2	\$5.00	\$41.00		
18	4" Dia HDPE Pipe for Ventilation & Drain. Including all fixtures, brass wire net cover and utilities. All complete See Drawing	Lm	40	\$10.00	\$400.00		
19	Cooling chamber roofing wooden works: including all Miscellaneous Wooden Work and installation utilities. All complete (See drawings)	m3	6.5	\$350.00	\$2,275.00		
20	Aluminum Per fabricated Gable Vent 600mm Dia. All Complete see drawings	No	2	\$50.00	\$100.00		
21	UPVC corrugated Sheet For Roof Cover including ridge cover. all complete see drawing	m2	139.3	\$30.00	\$4,179.00		
22	Floor cover, Hard wood plank and joist supporter. All complete See drawings. Included two coat painting surface Black Japan all complete	m3	3	\$22.00	\$66.00		
23	1/2" HDPE Pipe For Water Supply System to sprinklers and wall sand course with drip nozzles valves all complete. See drawing	Lm	125	\$9.00	\$1,125.00		

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24	Complete Water Supply System (water well to have 25m deep stable water level ,Boring including installation of 1" submercible pump DC current, with 1000 Capacity Water tank, valves and utilities and solar power supply system for pump all complete)	LS	1	\$1,200.00	\$1,200.00	
25	Steel Stair Case. Included hand rail, steps and landing (See the drawings)	LS	2	\$600.00	\$1,200.00	
26	Installation thermometer	No	2	\$10.00	\$20.00	
27	Sprinkler	No	3	\$10.00	\$30.00	
28	40mm Mud Plaster for Outside Stone Masonry Wall. Included white color lime painted	Sqm	263.5	\$6.00	\$1,581.00	
29	30mm sand and cement Plaster 1:3 for inside Stone Masonry Wall.	Sqm	220	\$5.00	\$1,100.00	
<b>Total</b>					<b>\$34,062</b>	
<b>Total Price for Kabul Province Paghman District</b>					<b>\$34,062</b>	







