

OHCHR office - Sana'a

Project Title: OHCHR tanks and accessory works

Bill of Quantity for the Fuel Tanks for OHCHR office - Sana'a - 6000 liters						
No	Item Description	Unit	Qyt.	Unit price (USD)	Total Price (USD)	Remarks
1	Removable work : Remove existing pump, pipes, Fuel Barmil and install it at the new location, this item includes all the necessary works according to the instructions of the supervising engineer.	lump	1			
2	Excavation works : Excavation works for, any type of soil (soft, rigid, and semi-rock), Fuel tank . This item includes backfill, change the sewage pipe direction to be far away from the fuel tank, transfer water and electricity network if existed, lifting of all waste outside the site, watering, compaction to obtain hard ground against subsidence, the compaction should not be less than 98% of MDD,and all necessary works to prepare the ground for foundations according to drawings , technical specifications and instruction of supervisor engineer.	m3	104			
3	Base Course Gravel : Implementing base course gravel, 15 cm thickness and a polyethylene film between this layer and cement mortar mixing should be 1:4 . item includes the cost of materials, labor, curing complete and all the work to complete this item according to drawings and technical specifications.	m3	6			

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4	Blocks Work: Supply and install block building using solid block (size 20x20x40) for walls , it should be done using a cement mortar 1:3 cement-sand. The building should be balanced and interlinked. Price includes all associated works such as watering, materials, scaffolds, placing of approval blocks, workmanship, and all the requirements to finish this item according to drawings, specifications, conditions and direct instructions by the Engineer or his representative.	m2	75			
5	Reinfoced concrete work : NOTE: All form works and shuttering shall be new. Concrete items must include steel reinforcement with Fy 280 Grade 40, installation the Fuel tank before casting the roof , Supplying, Casting, vibrating, workmanship, scaffold, sleeves, insulation for exposing surfaces of underground reinforced concrete elements with two coats of hot bituminous, insulation the foundation with polyethylene, testing and providing test results certificates, storing and saving of samples, and curing concrete with 'f'c=30 Mpa, smooth face. All works must be in accordance with specifications, drawings and supervisor engineer instructions					
5-1	Supply and cast ready mix plain concrete under the foundation with thickness 10cm using ordinary Portland cement 1:5 and 2:5 mixing ration, resistance 200kg/cm2, size 15x15x15cm, casting, materials, labor and all other works to finish this item according to drawings, technical specifications, and instruction of supervisor engineer.	m3	4			
5-2	Supply and cast ready mix reinforced concrete C30/37 for the foundation as per drawings. according to the above specification	m3	6.5			

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5-3	Supply and cast ready mix reinforced concrete C30/37 for the walls as per drawings. according to the above specification	m3	18.5			
5-4	Supply and cast ready mix reinforced concrete C30/37 for the roof as per drawings. according to the above specification	m3	6.5			
5-5	Supply and cast ready mix reinforced concrete C30/37 for pump foundtoin with size (40*50*80cm) with 5 ø 12 as a box as per drawings. according to the above specification	m3	0.16			
6	Metal Cover :Supply and install a metal cover with frame 60 x 60 cm, the cover is steel plate 8 mm on the exterior wall for the refuelling of the tanks. The cover should be placed 50 cm high and above the end point of the pipes mentioned in 4. Works include creating an opening on the wall and all necessary works to finish this item according to instructions of the supervising engineer.	No.	2			
7	Diesel Pump Station : Supply and installation of diesel pump station (dispenser) (suction type), Italy manufactured; Item includes carbon steel Pipe with 1.5 in 6mm thickness to connect with the tank, 2 valves, one pistols, fittings, pipe nipples, pipe nuts, pipe unions, protection box, connecting with electricity, with 2.5 mm+ 1.5 with 13 A circuit breaker in the main board and nat the site , box waterproof, include excavation in tiles/asphalt, compacted backfilling, and tiling of trench 30cm (width)x50cm(depth), PVC pipes, fittings, pipe nipples, pipe nuts, pipe unions . Including demolishing holes in concreter walls/ concreter flooring wherever required to lay down the cable, water proof switch 13 A, pumping system connection, fitting ,fire valve (high quality) , filter fixing the pump with concrete foundation , and all necessary work to finish this item according to technical specification and instruction of the supervision engineer. The supplier must submit catalog for the pump station in the technical offer.	NO	1			

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8	Steel Fuel Tank : Supply, install, test and commissioning cylinder steel Fuel tank, the capacity is 6000 Liter, with size 1.50 m diameter and 3.5 m length, the steel thickness shall be 6 mm min. Item includes welding, painting with three layers of rust-resistant (epoxy or equivalent), sandpapering, fittings, onnecting all (in/out) pipes, valves, fittings, pipe nipples, pipe nuts, pipe unions, brass fitting adapters, base-frame with 40 cm height , connecting between the tanks with 4 in pipes, steel tank cover with 60 cm x 60 cm, opening for cleaning, ventilation hole with its pipes, and all required accessories to finish this item according to drawings, specifications, and engineer's instructions.	No.	2			
9	Fuel Filter : Supply, install, test and commissioning of fuel tank filter (Petrol) to remove particles and water. Filter with 5 micron, transfer capacity is 105 liters Per Min, water repellent filtering paper with water decanting of 93 % , maximum working pressure 5 bar, 500,000 liter filtering capacity ,upper microfilter housing Aluminum , drain valve, inlet / outlet flanges or threads.	NO	1			
10	Steel Pipes: supply, install, pressure testing galvanized steel Pipe with 3 in diameter and 5 mm thickness in order to connect between the main tank and outside. Item includes painting, fixing , refilling, steel stopper at the end of the pipe (outside), valves, flanges, fittings, pipe nipples, pipe nuts, pipe unions, protection box with 8 mm thickness and all accessories to finish this item according to specifications, drawings and supervisor engineer instructions.	L.M	35			

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12	Fuel meter: Supply and install content measurement system for the main tank in order to measure the fuel level , legible 5-digit LED display in the desired unit (liters, gallons etc.) , item pressure fuel sensor (0-4)m, external battery, protection box, connecting with electricity, with 2.5 mm+ 1.5 with 13 A circuit breaker in the main board, include excavation in tiles/asphalt, compacted backfilling, and tiling of trench 30cm (width)x50cm(depth), PVC pipes . Including demolishing holes in concreter walls/ concreter flooring wherever required to lay down the cable, water proof switch 13 A, pumping system connection, fire valve, fixing the pump with concrete foundation , and all necessary work to finish this item according to technical specification and instruction of the supervision engineer.	Set	2			
13	Ladder: Supply and install Vertical steel ladder for the tank as per drawings. Item includes all accessories and all civil work such as fixing on walls, as per drawings to complete the work as specifications and engineer directions.	NO	2			
14	Sunshade Installation : Supply and install shade for the pump with size 1.4m x2 mx 3.5m height, item includes steel beam and columns with size H 20 x 10x 6mm, and tube section with 10 x 5x3 mm each 50cm for the secondary beam, and 8 mm plate with insulation and anti-rust painting , and water proof painting two layers , 70 cmx70 cm x70 cm reinforced concrete foundations with 5ø 14/m for the shade abase plate with 250 cm * 15cm with 10 mm thickness , anchor bolt4 x D 20 mm and 50 cm length , cutting if it necessary, grouting ,painting with anti-rust painting, welding electrode and all the required works to finish this item , according to drawings ,technical specifications and instructions the supervising engineer	lump	1			