

BOQ

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Rehabilitation of 1 PHCC (Bahari - Al-Khatmya)

A	Construction of X-Ray Unit		
S/N	Descriptions	Unit	QTY
1	Demolition and site clearance Work:		
1.1	Demolishes and removal of the old building, transport all debris off-site, and dispose the debris in a safe and proper manner.	Job	1
2	Digging and Embankment Work:		
2.1	Digging of stripe foundation with total depth 70cm, and width 50cm.	m.l	37
2.2	Provide and make embankment using graveled soil, make embankment in 15 cm layers ensure a suitable moisture content, the total thickness 45cm,	m3	40
3	Concrete Works:		
3.1	Provide materials, equipment and cast a plain concrete 1:3:6.	m2	48
3.2	Provide materials, equipment and cast roof reinforced concrete Slab 1:2:4, with thickness 13cm using clean aggregated gravels, Coarse sand, steel bars 12mm @ 15cm c/c two layers, ensure the use of vibration machine.	m2	48
3.3	Provide materials, equipment and cast reinforced roof beam 1:2:4, with thickness 30x30cm section using clean aggregated gravels, Coarse sand, and steel bars 16mm 6 pieces three on the bottom and three on the top, and ties 8mm @ 15cm c/c, ensure the use of vibration machine.	m3	3.3
3.4	Provide materials, equipment and cast reinforced doors beam 1:2:4, with thickness 30x20cm section using clean aggregated gravels, Coarse sand, and steel bars 16mm 6 pieces three on the bottom and three on the top, and ties 8mm @ 15cm c/c, ensure the use of vibration machine.	m3	2.2
3.5	Provide materials, equipment and cast reinforced grade beam 1:2:4, with thickness 40x45cm section using clean aggregated gravels, Coarse sand, and steel bars 16mm 6 pieces three on the bottom and three on the top, and ties 8mm @ 15cm c/c, ensure the use of vibration machine.	m3	6.6

4	Walls Building Works:		
4.1	Provide material, equipment and construct stripe foundation 2 bricks thickness up to 40cm above G.L, using red brick #1, cement mortar 1:6.	m.l	37
4.2	Provide material, equipment and construct walls 1½ bricks thickness, using red brick #1, cement mortar 1:6.	m2	111
4.3	Provide material, equipment and construct parapet 1½ bricks thickness and 70cm high, using red brick #1, cement mortar 1:6.	m.l	37
5	Plastering Works:		
5.1	provide materials, equipment and make plastering 2.5cm for walls inside and outside using cement mortar 1:6.	m2	222
5.2	provide materials, equipment and make plastering 2.5cm for the roof using cement mortar 1:6.	m2	48
5.3	Provide and install water proof on the roof	m2	48
6	Doors and Windows:		
6.1	Provide and install steel doors size 2.2x1.0m including painting, using steel pipes 4x8cm and 3x6cm 1mm thickness, glass panels and good locks with handles.	Pcs	3
6.2	Provide and install aluminum windows size .2x1.2m, using tango brand, glass panels and good locks with handles.	Pcs	2
7	Painting Works:		
7.1	Provide materials and Render fair face emulsion coating to interior and exterior walls, applied in three coats.	m2	222
7.2	Provide materials and Render fair face emulsion coating to exterior roof, applied in three coats.	m2	48
8	Plumbing Works:		
8.1	Provide and install water supply network connecting handwashing basin, using PPR pipes (20 bar) 1 inches and 3/4 inches.	Job	1
8.2	Provide and install handwashing basin (DRUVIT brand)	Set	1
8.3	Provide and install sewage system form PVC pipes 2inches connecting handwashing basin with the main swage system including installation of Galytrap and chambers.	Job	1
9	Radiation shielding and lead lining works:		

9.1	Provide and install of the x-ray window 35x35cm using a specialized transparent high-density lead glass 3mm thickness providing adiation shielding containing internal lead sheeting.	Pcs	1
9.2	Provide and install door for the x-ray room 2.20x1.0m using steel pipes 4x8cm, 1.2mm thickness, steel sheets 1mm thickness containing internal lead sheeting.	Pcs	1
9.3	Provide and install internal lead sheeting and lead-lined gypsum board at 3.2m high to block radiation.	m2	52
9.4	provide and install Standard Medical Epoxy/Quartz Slurry for floors.	m2	48
10	Electricity Works:		
10.1	Provide and install air-conditioner spilt 18,000 unit (Ogeneral brand) including installation of swatch 45A good quality and 6mm2 wires, laying PVC pipes and accessories.	Set	2
10.2	Provide and install roof fans (Orient brand), including wires 1.5mm2 and laying of PVC pipes.	Pcs	4
10.3	Provide and install LED lamps 4 feet's including swatch (Tenbys) and 1.5mm2 wires and laying PVC pipes and accessories.	Pcs	10
10.4	Provide and install sockets 16/13A (Tenbys) and 4mm2 wires.	Pcs	15
10.5	Provide and install copper cable 4x35mm2 including all accessories.	m.l	50
10.6	Provide and install copper cable 4x16mm2 including all accessories.	m.l	20
10.7	Provide and install Main Safety Switch Box 150A-3phase	Pcs	1
10.8	Provide and install Circuit Breaker Box 100A - 3 phase / 18 lines	Pcs	1
B	Rehabilitation of VIP Latrine (3 Doors):		
1	Provide materials and construct Parapet using red brick #1 and cement mortar 1:6	m.l	14
2	Provide materials and plaster the walls outside using cement mortar 1:6	m2	50
3	Provide materials and plaster the roof using cement mortar 1:6	m2	20
4	Repair the doors, welding, install locks (bolts) and painting.	Pcs	3

5	Provide and install Ceramic for latrine floors.	m2	20
6	Provide and install Ceramic for latrine walls.	m2	32
7	Provide materials and Render fair face emulsion coating to exterior walls, applied in three coats.	m2	97
8	Provide materials and Render fair face emulsion coating to interior walls, applied in three coats.	m2	20
9	Provide materials and Create a slope for the roof using cement mortar including installation of the derange pipes.	m2	20
10	Provide and install water tank 2,000L Tiga brand, including PPR pipelines 1" and 3/4" , valves and taps for three rooms.	Job	1
11	Provide and install water pump 1Hp (Italy brand), and accessories.	Set	1
12	Rehabilitation of sewage chamber including water proof painting and install ready made steel cover.	Job	1
13	Rehabilitation of the swage system by installing PVC Pipes 4" (Techno brand) including ventilation pipes with top covers.	Job	1
14	Rehabilitation of the swage system by installing PVC Pipes 2" (Techno brand) including ventilation pipes with top covers.	Job	1
15	Provide and installation of flash tanks with accessories on the existing 2 Indian seats and bidet sprayer.	Pcs	2
16	Provide and install a complete Western seat with accessories and bidet sprayer.	Pcs	1
17	Provide and install floor water drain system (stainless steel).	Pcs	3
19	Supply and install LED lamps 36watt including pipes, wires and swatches	Pcs	5
C	Supervision cost - SMOH Staff	Persons	2