

BILL OF QUANTITIES					
South Sudan Enhancing Community Resilience and Local Governance Project (ECRP II)					
Project Description: Expansion of Ngomba PHCU & construction of 3 stance latrine and Chain link fence; Expansion of Kaabi PHCU & construction of 3 stance latrine and rehabilitation of 2 stance VIP Latrine, Chain link fence; Rehabilitation of Khor Ghana PHCU with store & rehabilitation of 2 blocks VIP latrine each of 2 and 3 stances, Chain link fence; and Rehabilitation of Abushaka PHCU with store, & rehabilitation of 2 and 4 stance latrine blocks, chain link fence-at Bessilia Payam					Tender No.02_Wau
Name of Bidder:					
ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE (USD)	AMOUNT (USD)
BILL NO. 1	PRELIMINARIES				\$ -
	Notes:				
	All the Bidders are requested to refer "Pricing Preamble and notes below" and works items of this Bills of Quantities shall be priced to fulfill the requirements there-in. Also see that no page or items are missing prior to pricing of this bill of quantities.	Note			
	A list of typical general items are given below. However, the Bidder is requested to price only those items that may affect this Contract.	Note			
	If no price has been stated against any item hereunder, the Contractor shall not be entitled to claim any money for such items even though he is obliged to execute the work or provide services described therein. Preliminary items priced by the Tenderer are deemed to include the cost of unpriced items.	Note			
	Cost and expenses in connection with any other preliminary item which is not listed below, but is necessary for the due completion of works, is deemed to be included in the tender rates.	Note			
1.1	Mobilization and Site Facilities				\$ -
1.1.1	Mobilization of all required Construction materials ,equipments and personel to project site.	Lump Sum	1.00		\$ -
1.1.2	The contractor shall provide adequate space to serve as a temporary site office and fit it with the required facilities for his own site management staff The contractor shall provide adequate space to serve as a temporary site stores or space for storage of plant and materials for the work herein. The contractor shall provide toilet facilities for his workers and the Engineers within the site as directed and with Sanitary conditions meeting WHO Standards.	Lump Sum	1.00		\$ -
1.1.3	The contractor shall provide necessary protective fencing/site hoarding, lighting, watchmen and other precautions and maintain for entire construction period.	Lump Sum	1		\$ -
	PLATES				
	Fabricate a metal visibility plate 100 x 80 mm to be wall mounted. Art work of name board will be issued by IOM	Each	6.00		\$ -
1.1.4	Fabricate and install a sign post stand, 1m x 1.2m metal signboard on a 1.8m stand with a concrete foundation (min. 0.40 x 0.40 x 0.60 m, as directed by the Site Engineer). Concrete class C-25 (1:1:2) with RHS 40 x 40 x 2.5mm posts and 2mm thick sheet metal sign.	Each	4.00		\$ -
	Sites Operations				\$ -
1.1.5	Allow for setting out of works in accordance with drawings; liaise with client to establish exact boundaries and other written information given by the Engineer and obtain written approval from the relevant government authorities for setting out, street and building lines before commencements of construction; Checking of any setting out or of any line or level by the Engineer shall not in any way relieve the Contractor of his responsibility for the accuracy thereof.	Lump Sum	1		\$ -
1.1.6	Allow for supplying water for the Works and facilities of the contractor including connection, distribution system for the work, internal arrangements and all payment to the authorities for connections. It is the responsibility of the Contractor to ensure steady and uninterrupted water supply to Works.	Lump Sum	1		\$ -
1.1.7	Allow for maintaining daily records in the manner required by the Engineer to indicate factual details of, Workers, materials , Machinery and Equipment, Weather	Lump Sum	1		\$ -
1.1.8	Allow for maintaining the sites in clean and orderly fashion at all times and during the entire contract period. Materials, cement etc. shall be kept neatly stacked on the site with all access-ways kept clear. All dust, debris and rubbish etc., arising out of his own works shall be continually cleared and removed from the site. The Engineer's Representative shall certify a percentage of the monthly rate or shall completely suspend the monthly amount if the contractor's maintenance is found to be unacceptable.	Lump Sum	1		\$ -
1.1.9	Allow for providing all necessary safety measures to workmen (provision for proper usage of Personal protective equipment (PPE)). The bidder should submit his comprehensive safety plan with description and number in each safety device and other safety equipment proposed. The Engineer's Representative has the right to pay a percentage of the monthly component to suit the percentage accomplishment of this safety plan.	Lump Sum	1		\$ -
	Insurances, Bonds & Fees				\$ -

1.1.10	Allow for Contractor's All Risk Insurance Policy, including third party liability and from the starting date until the defects liability certificate has been issued, the risks of personal injury, death, and loss of or damage to property (including, without limitation, the works, plant, materials, and equipment) which are not employers risk but are contractors risk Allow for insurance against claims for worker's compensation. Engineer's and Consultant's representatives, shall be included in the Insurance Policy. Allow for insurance against loss or damage to the works, adjacent structures, any existing overhead and/or underground services that may cause damages during the construction	Lump Sum	1		\$ -
	Environmental and Social Safeguarding Requirements				\$ -
1.1.12	<u>Allow for providing all necessary safety measures to workmen (provision for proper usage of Personal protective equipment (PPE). The bidder should submit his comprehensive safety plan with description and number in each safety device and other safety equipment proposed. The Engineer's Representative has the right to pay a percentage of the monthly component to suit the percentage accomplishment of this safety plan.</u>				
1.1.13	Conduct environmental and social risk assessment and management on all subproject sites including conducting inspections to ensure adherence to the requirement of IOM and the World Bank	Lump Sum	1		\$ -
1.1.14	Provide resources to ensure a safe working environment including signage, access control, fall protection equipment and devices, occupational safety and health equipment, and first aid kit.	Lump Sum	1		\$ -
1.1.15	Ensure measures are put in place to guarantee community safety including stakeholder engagement and information disclosure	Lump Sum	1		\$ -
1.1.16	Acquire all relevant Environmental permits, licenses and authorisation prior to engaging in any activities that require such. This includes adhering to conditions of any licenses issues.	Lump Sum	1		\$ -
1.1.17	Rehabilitate and ensure maintenance of aesthetic environment including ensuring the sound management of waste on all sites.	Lump Sum	1		\$ -
1.1.18	Ensure there is a designated qualified and competent environmental and social safeguards specialist within the contractor's team at least for each subproject site.	Month	6		\$ -
BILL NO. 2	BOQ - REHABILITATION OF KHOR GHANA PHCU-BESSILIA PAYAM				\$ -
2.1	SUBSTRUCTURE				\$ -
	Excavation				
2.1.1	Site clearance of 40m x 2m and removal of debris from site as directed	80	m2		\$ -
2.1.2	Excavate strip foundation for ramp not exceeding width of 1200mm and depth of 400 mm including removal of surplus material from site.	4.32	m3		\$ -
	Backfilling				
2.1.3	Return, fill in and ram selected excavated material around foundations	0.045	m3		\$ -
	Disposal of Surplus spoils				
2.1.4	Load and cart away surplus material from site to an approved dumping site	4.275	m3		\$ -
	Crushed stone fill				
	Imported filling				
2.1.5	min 100mm thick compacted selected fill to grade to the ramp	2.16	m3		\$ -
	Anti-termite treatment				
2.1.6	TERMIDOR' or other equal and approved insecticide with a ten-years guarantee to surfaces of fill and tops of ramp foundations	21.6	m2		\$ -
	Damp Proofing				
2.1.7	1000 gauge polythene sheet damp proof membrane: to floors: laid on blinded smooth finished hardcore bed with 300mm side and end laps to receive concrete floor bed (m/s) - measured net with no allowance for overlaps	21.6	m2		\$ -
2.1.8	Concrete ramps at slope not exceeding 1:20	21.6	m2		\$ -
	Concrete work in substructure				
	Plain concrete class 10 (mix 1:3:6)				
2.1.9	50mm Thick surface blinding under ramp foundations	1.08	m3		\$ -
	In Situ concrete class 25, vibrated and reinforced as described, in:-				
2.1.10	Construct concrete Ramp not exceeding 100mm	2.16	m3		\$ -
	Reinforcement				
2.1.11	Fabric mesh reinforcement to ramps	21.6	m2		\$ -
	Sawn formwork to:-				
2.1.12	Horizontal sides of ramp foundations	15.84	m2		\$ -
2.1.13	Edges of 100mm high ramp floor slab	2.64	m2		\$ -
	Foundation walling				
	Plinths				
2.1.14	12 mm thick cement : sand (1:3) render to plinth	15.84	m2		\$ -
2.1.15	Prepare and apply one priming coat and two coats of black bituminous paint on rendered plinths	15.84	m2		\$ -
2.2	STRUCTURAL FRAME				\$ -
	CHS steel column installation to Support the roof at the Verendah				
2.2.1	CHS100x3mm Steel columns supporting roof at the verendah	13	Nr		\$ -
	Roofing				
2.2.2	Supplying & fixing of gauge 28 pre-painted Super Five IT4 profiled roofing sheets (0.32mm) of approved colour: attached to wooden purlins (measured separately) and rubber capping to tops of nails	340	m2		\$ -

2.2.3	Supplying & fixing of Gypsum Ceiling board including; Channels GCS 52mm*10ft (Drywall Metal Profile) Gypsum Board Hada 4ftx8ftx9mm (Drywall for Ceiling), Gypsum Stud GCS 2.8mx52mm, Gyproc Gypsum Board 9mm, Gypsum Cornice GC01C 4Inch, Moulding Cornice Panel Moulding Stucco Decoration 2 m Orac Decor CX111 AXSENT, Gyproc Gypsum Filler 25kg, Gypsum Drywall Screws 1Inchx1000pcs, Plain PVC Laminated Gypsum Board with Waterproof and Fireproof Features	171.58	m2		\$ -
2.2.4	Supplying & fixing Gauge 28 prepainted ridge cap; 650mm girth (average) in position complete with all necessary roofing screws, roofing nails or hooks as required.	48.97	m		\$ -
	Valance/Barge Board				
2.2.6	Wooden fascia boards bolted to edges of rafters: all complete with approved as specified and as per the scope of work.	123.6	m		\$ -
2.3	DOORS & WINDOWS				\$ -
	Note: All doors to be supplied and fixed as per the details provided. All iron Mongery that has not been measured separately shall be priced together with the corresponding door.				
2.3.1	Steel doors to fit structural opening size 1100mm x 2200mm high: RHS steel frame 40mm x 40mm x 2mm, Painted with 2 coats of antirust paint & one coat of enamel paint, 180 D Opening, 2mm casement metal pane, with Burglar proofing with RHS 25mmx25mmx2mm Vertical steel bars at equal intervals welded to frames on the exterior side. Ironmongry stainless steel pull-push bar handle, 0.5mm thick steel louvers at top welded to RHS frame. Louver to be covered with approved mosquito net.	12	Nr		\$ -
	<i>Painting and Decorating: Prepare and apply two coats of brown rust inhibiting primer finished with one coats of enamel paint of approved color on metal:-</i>				
2.3.2	Surfaces steel plated doors and steel frames	38.72	m2		\$ -
	<i>Purpose made steel casement windows manufactured from standard: manufacture, assemble and deliver to site: Supply and fix ironmongery comprising approved hinges, stays, fasteners to opening lights: frames drilled, plugged and screwed or built into walling: one coat red oxide primer before delivery.</i>				
2.3.3	Window 1000mmx1200mm. door Frame material is LTZ steel frame 40mmx40mmx2mm, Painted with 2 coats of antirust paint & one coat of enamel paint glazed with 5mm thick clear glass. Bugler proofing is RHS 25mmx25mmx2 mm steel bars welded to frames at equal spacing behind glazings on the interior side and 0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net. Ironmongry stainless steel pull-push bar handle.	23	Nr		\$ -
2.4	FINISHES				\$ -
	Floor Finishes				
2.4.1	100mm thick ground floor slab (rooms & Verandah) C-20 concrete (1:1.5:3) reinforced A142 BRC layed on 1000 gauge DPM ployethene membrane	25.4	m3		\$ -
	<i>Cement and sand (1:3) screeds and pavings: one coat: steel trowel finish: laid on concrete</i>				
2.4.2	50mm thick screeding	254.00	m2		\$ -
2.4.3	300mm x 10mm rendered skirt, 15mm thick cement sand plaster (1:4), with steel trowelled, finish with 3 coats of bituminous paint	125.4	m		\$ -
	<i>External walls: 15mm thick cement sand plaster (1:4), with steel trowelled finish. Paint: 1 coat of emulsion under coat on all walls. For interior walls, finish with 3 coats of matte vinyl paint in soft white. For exterior walls, finish with 3 coats of emulsion weather guard paint in smoked grey</i>				
2.4.4	External wall rendering and paint, 15mm thick cement sand plaster (1:4), with steel trowelled finish, Paint: 1 coat of emulsion under coat, finish with 3 coats of emulsion weatherguard paint in smoked grey	204.2	m2		\$ -
2.4.5	Internal: Thoroughly clean any dirt on wall surfaces, fill up any worn out spot and or seal any crack, Paint: 1 coat of emulsion under coat, finish with 3 coats of matte vinyl paint in soft white	203.2	m2		\$ -
	Rain water goods				
2.4.6	Supply and installation of 75mm x 3mm thick PVC pipe each 3.5m including all necessary fittings (elbows, and downpipe clips)	8.00	Nr		\$ -
2.4.7	Supply and fix 150mm x 3mm PVC gutter with all the accessories (gutter clips, gutter connectors, outlets, elbows and end caps.	97.8	m		\$ -
BILL NO. 3	BOQ -KHOR GHANA PHCU STORE REHABILITATION (NORMAL SOIL)				\$ -
	SUBSTRUCTURE				
3.1	Floor Repair				\$ -
3.1.1	Remove the exiting floor screed/ concrete layer and dispose off.	16	m2		\$ -
3.1.2	1000 gauge polythene sheet damp proof membrane: to floors: laid on blinded smooth finished hardcore bed with 300mm side and end laps to receive concrete floor bed (m/s) - measured net with no allowance for overlaps	16	m2		\$ -
3.1.3	100mm thick ground floor slab (rooms & Verandah) C-20 concrete (1:1.5:3) reinforced A142 BRC layed on 1000 gauge DPM ployethene membrane	1.6	m3		\$ -
3.2	ROOF AND RAIN WATER DISPOSAL				\$ -
	Roof Covering				
3.2.1	Supplying & fixing of gauge 28 pre-painted Super Five IT4 profiled roofing sheets (0.32mm) of approved colour: fixed with J-bolts to 100 x 50 x 2mm zed purlins (measured separately) and rubber capping to tops of bolts	30	m2		\$ -

3.2.2	Wooden fascia boards nailed to edges of rafters: all complete with approved as specified and as per Drawing.	18.4	m		\$ -
	DOORS and WINDOWS				
	<i>Note: All doors to be supplied and fixed as per the details and schedule provided. All iron Mongery that has not been measured separately shall be priced together with the corresponding door.</i>				
3.2.3	Steel door to fit structural opening size 100mm x 2100mm high: RHS steel frame 40mm x 40mm x 2mm, Painted with 2 coats of antirust paint & one coat of enamel paint, 180D Opening, 2mm casement metal pane, with Burglar proofing with RHS 25mm x 25mm x 2mm Vertical steel bars at equal intervals welded to frames on the exterior side. Ironmongry stainless steel pull-push bar handle, 0.5mm thick steel louvers at top welded to RHS frame. Louver to be covered with approved mosquito mesh.	1	Nr		\$ -
	Painting and Decorating				
	<i>Prepare and apply two coats of brown rust inhibiting primer finished with two coats of white matt oil paint on metal:-</i>				
3.2.4	Surfaces steel plated doors and steel frames	9.68	m2		\$ -
	WINDOWS				
	<i>Purpose made steel casement windows manufactured from standard strong Z sections: manufacture, assemble and deliver to site: Supply and fix ironmongery comprising approved hinges, stays, fasteners to opening lights: frames drilled, plugged and screwed or built into walling: one coat red oxide primer before delivery.</i>				
	Supply and fix the following				
3.2.5	W 1000x1300mm. door Frame material is LTZ steel frame 40mm x 40mm x 2mm, Painted with 2 coats of antirust paint & one coat of enamel paint glazed with 2mm thick clear glass. Bugler proofing is RHS 25 X 25 X 2 mm steel bars welded to frames at equal spacing behind glazings on the interior side and 0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net. Ironmongry stainless steel pull-push bar handle	2	Nr		\$ -
3.3	FINISHES				\$ -
	Wall Finishes				
	<i>Internal and external Walls: 15mm thick cement sand plaster and rendering respectively (1:4), with steel trowelled finish. Paint: 1 coat of emulsion under coat on all walls. For interior walls, finish with 3 coats of matte vinyl paint in soft white. For exterior walls, finish with 3 coats of emulsion weatheguard paint in smoked grey</i>				
3.3.1	External wall rendering and paint, 15mm thick cement sand plaster (1:4), with steel trowelled finish, Paint: 1 coat of emulsion under coat, finish with 3 coats of emulsion wather guard paint in smoked grey	75	m2		\$ -
3.3.2	Internal wall plastering and paint, 15mm thick Cement/lime putty/sand (1:2:9), with steel trowelled finish, Paint: 1 coat of emulsion under coat, finish with 3 coats of matte vinyl paint in soft white	60	m2		\$ -
3.3.3	300mm rendered skirt, 15mm thick cement sand plaster (1:4), with steel trowelled, finish with 3 coats of bituminous paint	22	m		\$ -
BILL NO. 4	CONSTRUCTION OF CHAIN-LINK FENCE (50MX50M) WITH VEHICULAR GATE AT KHORGHANA PHCU				\$ -
	Notes:				
	<i>1. Chainlink fence all around the site- Approx. 200 metres</i>				
	<i>2. 3,800mm wide x 2,000mm high vehicular gate with intergral 1000mm wide x 1900 mm high pedestrian gate</i>				
	<i>Chainlink fencing</i>				
4.1	Excavation				\$ -
4.1.1	Excavate for stub-columns not exceeding 1000mm from ground level at maximum 2.3m centers (average depth 0.5m)	3.88	m3		\$ -
4.1.2	Remove and cart away from site surplus excavated material as directed	3.88	m3		\$ -
4.2	Mass concrete				\$ -
	<i>Mass concrete blinding class 10 (1:3:6) :-</i>				
4.2.1	50mm thick strip base [100mm wide]	0.39	m3		\$ -
	<i>Insitu concrete class 20 (1:1.5:3), vibrated in:-</i>				
4.2.2	Column bases and Sub-columns below ground level cost shall include necessary form work.	3.50	m3		\$ -
4.3	Steel Angle columns posts				\$ -
	<i>Note: Rate for steel shall include all necessary welding, cutting, joining members, drilling holes and paint work</i>				
	<i>All steel sections to be thoroughly cleaned and phosphatized to resist corrosion before receiving 2 undercoats of brown rust inhibiting primer, 2 oats of matt white oil paint and finished with 2 coats of premium quality oil based acrylic paint of approved colour</i>				
4.3.1	50x50x4mm Thick rolled steel angle column posts; fixed into 500mm deep concrete bases (concrete bases measured separately) [Total of 87no. Angle posts each approx. 3.5m long]	304.50	m		\$ -
4.3.2	50x50x4mm Extra steel angle bars for diagonal bracing of corner/end posts, and posts at an interval of every five posts or 12.5m approximately 3650mm long each	32.00	Nr		\$ -
	<i>Steel angle coping/"Y" Crank</i>				
4.3.3	50x50x4mm thick rolled steel angle "Y" crank welded on top of steel posts (measured separately)	87.00	Nr		\$ -

4.3.4	40x40x3mm rolled steel angle top rail/cooping	196.20	m		\$ -
4.4	Chain-link and Razor wire				\$ -
4.4.1	Supply and fix 2000mm high galvanised chain-link fencing (diamond wire mesh), Gauge 10 opening 50x50mm, wire 3mm, tied to steel heavy duty chain-link fencing fixed on steel angle columns and 2 No. bottom and intermediate strand of Gauge 13, 3mm dia galvanized tension wire at 1500mm centres (columns measured separately)	196.20	m		\$ -
4.4.2	Supply and fix 2No. Strands of Galvanized plane tension wire fixed through 50x50x4mm steel angle posts	394.40	m		\$ -
	<i>Razor wire on top of chain-link fence</i>				
4.4.3	450mm diameter Razor wire mounted on top of chain-link	196.20	m		\$ -
4.4.4	Supply and fix 3No. Strands of Galvanized plane tension wire fixed through 50x50x4mm "Y" crank steel angle bars (steel angle bars measured with razor wire above).	600.00	m		\$ -
4.5	GATE				\$ -
	Gate Columns				
	<i>Excavation</i>				
4.5.1	Excavation of pits 750mm x 750mm x 1000mm n.e 1500mm depth from levelled ground for 300mmx300mm reinforced concrete Gate columns(maximum 1.0m excavation)	1.13	m3		\$ -
4.5.2	Backfill around the column footing	0.71	m3		\$ -
4.5.3	Remove and cart away from site surplus excavated material as directed	0.41	m3		\$ -
	<i>Mass concrete</i>				
4.5.4	50mm thick blinding under Gate column footings with plain cement concrete (PCC) class C-10 (1:3:6)	0.06	m3		\$ -
4.5.5	750mmx750mmx250mm pad footing concrete class C-20 (1:1.5:3).	0.28	m3		\$ -
4.5.6	300mmx300mm column, concrete class C-20 (1:1.5:3)	1.33	m3		\$ -
	<i>Reinforcement</i>				
	<i>High tensile steel reinforcement to B.S. 4461 in structural concrete work including cutting, bending, hoisting, fixing, tying wire and spacing blocks</i>				
4.5.7	8Y12 in footing pads rebars @225mm c/c	23.59	Kg		\$ -
4.5.8	4Y12 in gate column rebar .	33.20	Kg		\$ -
4.5.9	R8 links/stirrups @ 150mm centers in gate column	25.14	Kg		\$ -
	<i>Gate Column Finishes</i>				
4.5.10	Rendering and paint, 15mm thick cement sand rendering (1:3), with steel trowelled finish, Paint: 2 coats of emulsion under coat, finish with 2 coats of emulsion weather guard paint in smoked grey	5.81	m2		\$ -
	Grilled Gate				
4.5.10	Supply, fabricate and fix 3800mm wide and 2000mm high double leafed grilled gate, with 1000mm wide by 1900mm high Pedestrian access embedded on one leaf. Gate of 25x25x2mm thick intermediate vertical SHS bars fixed to 60x40x3mm RHS external frame and 40x40x3mm SHS middle stile; "Y" Crank welded to the top of the gate to hold 3 lines of tension wire and Razor wire including all necessary accessories (anchorages to the columns, heavy duty hinges, bottom lock and its socket, barrel locks etc.) shall be installed to Engineer's satisfaction. (Rates shall include for painting with two coats of primer and two finishing coats of approved enamel paint.	1.00	Ea		\$ -
BILL NO. 5	REHABILITATION OF 1 BLOCK OF 3 STANCES VIP LATRINE AT KHOR GHANA PHCU				\$ -
5A.1	SUBSTRUCTURE				\$ -
	Excavation and Earthwork (Provisional)				
5A.1.1	Site clearance and removal of debris from site as directed (10m by 6m)	60.00	m2		\$ -
	Curtain Wall and Access Ramps				
5A.1.2	Excavate loose top soil average 200 deep from ground level and wheel and deposit on site as directed.	25.75	m2		\$ -
5A.1.3	Excavate in soft material for ramp trenches not exceeding 600mm depth.	4.10	m3		\$ -
	Disposal of surplus spoils				
5A.1.7	Load and cart away surplus material from site to an approved dumping site.	6.348	m3		\$ -
	Selected filling				
5A.1.8	200mm Thick hardcore fillings compacted in layers not exceeding 100mm deep and well watered under lobby ground slab and ramps.	4.00	m3		\$ -
5A.1.9	500mm Thick compacted selected fill to grade natural soil	6.75	m3		\$ -
	Damp proof membrane				
5A.1.10	1000 gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net- allow for laps)	17.51	m2		\$ -
	Concrete work in substructure				
	<i>Plain concrete class 10 (mix 1:3:6)</i>				
5A.1.11	50mm Thick surface blinding under strip foundation and bottom pit	0.34	m3		\$ -
5A.1.13	Ditto for ramps	0.34	m3		\$ -
	<i>In situ concrete class 25/20, vibrated and reinforced as described, in:-</i>				
5A.1.14	Foundation strip (250mm thick, C20)	2.28	m3		\$ -
5A.1.15	100mm thick ground floor slab on the walk way (C20)	1.07	m3		\$ -
5A.1.16	Ramp (minimum 100mm thick, C20)	0.68	m3		\$ -
	200mmx200mm ground beam at the curtain wall	0.46	m3		\$ -
	Reinforcement for Substructure				
	<i>High tensile steel reinforcement to B.S. 4461 in structural concrete work including cutting, bending, hoisting, fixing, tying wire and spacing blocks</i>				
5A.1.17	8 mm diameter bars	21.29	kg		\$ -

5A.1.18	12 mm diameter bars	40.54	kg		\$	-
	<i>Mesh reinforcement ; B.S. 4483 Ref A98 weighing 1.54 kgs per square meter including bends, tying wire and spacing blocks</i>					
5A.1.19	Fabric mesh reinforcement for ground floor, and ramp slab	17.51	m2		\$	-
	<i>Sawn formwork to:-</i>					
5A.1.19	Horizontal sides of foundation strip	11.40	m2		\$	-
5A.1.20	Horizontal sides of ground beams and floor slabs	2.43	m2		\$	-
5A.1.21	Edge of ramps	2.85	m2		\$	-
	Plinth Walling					
	<i>Solid concrete block walling (mix 1:3:6); bedded, load bearing 7N/mm², jointed and pointed in cement sand (1:3) mortar; reinforced with hoop iron after every alternate course.</i>					
5A.1.21	200mm thick solid block plinth wall	11.28	m2		\$	-
	Damp proof course					
5A.1.22	1200 gauge polythene or other equal and approved damp proof membrane laid under 150mm thick walls	17.51	m		\$	-
	Plastering and Painting					
5A.1.23	12 mm thick cement : sand (1:3) plaster to walling	9.42	m2		\$	-
5A. 2	SUPERSTRUCTURE				\$	-
	Walling					
	<i>Solid concrete block walling (mix 1:3:6); bedded, load bearing 7N/mm², jointed and pointed in cement sand (1:3) mortar; reinforced with hoop iron after every alternate course.</i>					
5A. 2.1	200mm Thick walls for curtain and atleast 1.7m high from finished floor(FF)	10.71	m2		\$	-
	Wall Finishes					
	<i>Internal and external Walls: 15mm thick cement sand plaster, with steel trowelled finish. Paint: 1 coat of emulsion under coat on all walls. For interior walls, finish with 3 coats of matte vinyl paint in soft white. For exterior walls, finish with 3 coats of emulsion wather guard paint in smoked grey</i>					
5A. 2.2	Internal wall plastering and painting	49.20	m2		\$	-
5A. 2.3	External wall rendering and painting	39.12	m2		\$	-
5A. 2.4	Curtain Wall rendering and paniting	27.20	m2		\$	-
5A.3	ROOF AND RAIN WATER DISPOSAL				\$	-
	Roof repair.					
5A.3.1	Contractor to allow for removal and disposal of existing roof cover and structure as directed by the supervisor.	1.00	LS		\$	-
	<u>Supply, fabricate and fix roof structure with mahagony wood sized to fit existing structure. (Rates inclusive of nails, hoop iron at joints, cutting and application of creosote or other approved wood presevative on the timber surfaces in two coats)</u>					
5A.3.2	100x50mm wall plate, surficiently secured to the wall with 20 SWG hoop iron of 25mm wide.	12.60	m		\$	-
5A.3.3	100x50mm rafters @ maxi 2.0m c/c	10.80	m		\$	-
5A.3.4	75x50mm purlins @ 0.8m c/c	28.40	m		\$	-
5A.3.5	25x200mm Wooden fascia board (pine timber)	19.60	m		\$	-
5A.3.6	Wooden fascia board paint, 1 coat of emulsion under coat & 3 coats of oil based gloss white paint	3.92	m2		\$	-
	Roof Covering					
5A.3.7	Supplying & fixing of gauge 28 pre-painted Super Five IT4 profiled roofing sheets (0.32mm) of approved colour: fixed with roofing nails to 75x50mm timber purlins (measured separately) and rubber caping to tops of nails.	19.17	m2		\$	-
	Rain Water Disposal					
	<i>Supply and fix rain water system to manufacturer's instructions.</i>					
5A.3.8	110mm, 3mm thick PVC gutter	7.10	m		\$	-
5A.3.9	Rainwater outlets with nozzle for 100mm rainwater down pipe outlet.	1.00	Nr		\$	-
	Supply and installation of 75mm x 4mm thick PVC pipe including all necessay fittings.	3.00	m		\$	-
5A.3.10	500L Plastic tank including plumbing work (pipe connections and taps)	1.00	lump sum		\$	-
5A.3.11	Water tank concrete plinth construction including supply and installation of all materials and labour	1.00	lump sum		\$	-
5A.3.12	Soak pit construction including supply and installation of all materials and labour	1.00	lump sum		\$	-
5A. 4	DOORS, WINDOWS, FINISHES, PLUMBING				\$	-
	Doors					
	<i>Note: All doors to be supplied and fixed as per the details provided. All iron Mongery that has not been measured separately shall be priced together with the corresponding door.</i>					
5A.4.1	Steel doors to fit structural opening size 800mm x 2000mm high: RHS steel frame 40mm x 40mm x 2mm, Painted with 2 coats of antirust paint & one coat of enamel paint, 180D opening, 2mm casement metal panel.	4	Nr		\$	-
	Windows					
5A.4.2	200x500mm steel ventilators, RHS steel frame 40x40x2mm painted with 2 coats of antirust paint & one coat of enamel paint with steel louvers and mosquito wire mesh fixed internally. Painted with 2 coats of antirust paint & one coat of enamel paint	4	Nr		\$	-
	Finshes					
	Floor finishes					

	<i>In situ cement and sand (1:3) screed</i>				
5A. 4.3	50mm thick screed for floor and ramp	20.05	m2		\$ -
	Miscellaneous				
5A. 4.4	Handrails for length of ramps on both sides, CHS 40mm dia. and 2 mm thickness, painted with 2 coats of antirust paint and 1 coat of enamel paint.	2.00	Pairs		\$ -
	Plumbing installations		1		
5A. 4.5	Well finished squat hole with foot rest	4.00	Nr		\$ -
5A. 4.6	100mm diameter 3mm thick PVC Vent-pipe including fly screen.	2.00	Ea		\$ -
BILL NO. 6	REHABILITATION OF 1 BLOCK OF 2 STANCES VIP LATRINE AT KHOR GHANA & KAABI PHCU				\$ -
6A. 1	SUBSTRUCTURE				\$ -
	Excavation and Earthwork (Provisional)				
6A.1.1	Site clearance and removal of debris from site as directed (10m by 6m)	40.88	m2		\$ -
	Curtain Wall and Access Ramps				
6A.1.2	Excavate loose top soil average 200 deep from ground level and wheel and deposit on site as directed.	18.25	m2		\$ -
6A.1.3	Excavate in soft material for curtain wall ramp trenches not exceeding 600mm depth.	3.02	m3		\$ -
	Disposal of surplus spoils				
6A.1.7	Load and cart away surplus material from site to an approved dumping site.	5.85	m3		\$ -
	Selected filling				
6A.1.8	200mm Thick hardcore fillings compacted in layers not exceeding 100mm deep and well watered under lobby ground slab and ramps.	1.67	m3		\$ -
6A.1.9	500mm Thick compacted selected fill to grade natural soil	4.18	m3		\$ -
	Damp proof membrane				
6A.1.10	1000 gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net- allow for laps)	12.41	m2		\$ -
	Concrete work in substructure				
	<i>Plain concrete class 10 (mix 1:3:6)</i>				
6A.1.11	50mm Thick surface blinding under strip foundation and bottom pit	0.25	m3		\$ -
6A.1.13	Ditto for ramps	0.34	m3		\$ -
	<i>In situ concrete class 25/20, vibrated and reinforced as described, in:-</i>				
6A.1.14	Foundation strip (250mm thick, C20)	1.98	m3		\$ -
6A.1.15	100mm thick ground floor slab on the walk way (C20)	0.56	m3		\$ -
6A.1.16	Ramp (minimum 100mm thick, C20)	0.68	m3		\$ -
	200mmx200mm ground beam at the curtain wall	0.34	m3		\$ -
	Reinforcement for Substructure				
	<i>High tensile steel reinforcement to B.S. 4461 in structural concrete work including cutting, bending, hoisting, fixing, tying wire and spacing blocks</i>				
6A.1.17	8 mm diameter bars	15.76	kg		\$ -
6A.1.18	12 mm diameter bars	29.87	kg		\$ -
	<i>Mesh reinforcement ; B.S. 4483 Ref A98 weighing 1.54 kgs per square meter including bends, tying wire and spacing blocks</i>				
6A.1.19	Fabric mesh reinforcement for ground floor, and ramp slab	12.41	m2		\$ -
	<i>Sawn formwork to:-</i>				
6A.1.19	Horizontal sides of foundation strip	9.90	m2		\$ -
6A.1.20	Horizontal sides of ground beams and floor slabs	1.68	m2		\$ -
6A.1.21	Edge of ramps	2.85	m2		\$ -
	Foundation Walling				
	<i>Solid concrete block walling (mix 1:3:6); bedded, load bearing 7N/mm², jointed and pointed in cement sand (1:3) mortar; reinforced with hoop iron after every alternate course.</i>				
6A.1.21	200mm thick solid block plinth wall	7.44	m2		\$ -
	Damp proof course				
6A.1.22	1200 gauge polythene or other equal and approved damp proof membrane laid under 150mm thick walls	12.41	m		\$ -
	Plastering and Painting				
6A.1.23	12 mm thick cement : sand (1:3) plaster to walling	7.62	m2		\$ -
6A. 2	SUPERSTRUCTURE				\$ -
	Walling				
	<i>Solid concrete block walling (mix 1:3:6); bedded, load bearing 7N/mm², jointed and pointed in cement sand (1:3) mortar; reinforced with hoop iron after every alternate course.</i>				
6A. 2.1	200mm Thick walls for curtain	5.61	m2		\$ -
	Wall Finishes				
	<i>Internal and external Walls: 15mm thick cement sand plaster, with steel trowelled finish. Paint: 1 coat of emulsion under coat on all walls. For interior walls, finish with 3 coats of matte vinyl paint in soft white. For exterior walls, finish with 3 coats of emulsion wather guard paint in smoked grey</i>				
6A. 2.2	Internal wall plastering and painting	24.60	m2		\$ -
6A. 2.3	External wall rendering and painting	25.72	m2		\$ -
6A. 2.4	Curtain Wall rendering and paning	27.20	m2		\$ -
6A.3	ROOF AND RAIN WATER DISPOSAL				\$ -
	Roof repair.				
6A.3.1	Contractor to allow for removal and disposal of existing roof cover and structure as directed by the supervisor.	1.00	LS		\$ -

	Supply, fabricate and fix roof structure with mahogany wood sized to fit existing structure. (Rates inclusive of nails, hoop iron at joints, cutting and application of creosote or other approved wood preservative on the timber surfaces in two coats)				
6A.3.2	100x50mm wall plate, sufficiently secured to the wall with 20 SWG hoop iron of 25mm wide.	6.60	m		\$ -
6A.3.3	100x50mm rafters @ maxi 1.5m c/c	8.10	m		\$ -
6A.3.4	75x50mm purlins @ 0.8m c/c	16.40	m		\$ -
6A.3.5	25x200mm Wooden fascia board (pine timber)	13.60	m		\$ -
6A.3.6	Wooden fascia board paint, 1 coat of emulsion under coat & 3 coats of oil based gloss white paint	2.72	m2		\$ -
	Roof Covering				
6A.3.7	Supplying & fixing of gauge 28 pre-painted Super Five IT4 profiled roofing sheets (0.32mm) of approved colour: fixed with roofing nails to 75x50mm timber purlins (measured separately) and rubber capping to tops of nails.	11.07	m2		\$ -
	Rain Water Disposal				
	<i>Supply and fix rain water system to manufacturer's instructions.</i>				
6A.3.8	110mm, 3mm thick PVC gutter	4.10	m		\$ -
6A.3.9	Rainwater outlets with nozzle for 100mm rainwater down pipe outlet.	1.00	Nr		\$ -
		3.00	m		\$ -
	Supply and installation of 75mm x 4mm thick PVC pipe including all necessary fittings.				\$ -
6A.3.10	500L Plastic tank including plumbing work (pipe connections and taps)	1.00	lump sum		\$ -
6A.3.11	Water tank concrete plinth construction including supply and installation of all materials and labour	1.00	lump sum		\$ -
6A.3.12	Soak pit construction including supply and installation of all materials and labour	1.00	lump sum		\$ -
6A. 4	DOORS, WINDOWS, FINISHES, PLUMBING				\$ -
	Doors				
	<i>Note: All doors to be supplied and fixed as per the details provided. All iron Mongery that has not been measured separately shall be priced together with the corresponding door.</i>				
6A.4.1	Steel doors to fit structural opening size 800mm x 2000mm high: RHS steel frame 40mm x 40mm x 2mm, Painted with 2 coats of antirust paint & one coat of enamel paint, 180D opening, 2mm casement metal panel.	2	Nr		\$ -
	Windows				
6A.4.2	200x500mm steel ventilators, RHS steel frame 40x40x2mm painted with 2 coats of antirust paint & one coat of enamel paint with steel louvers and mosquito wire mesh fixed internally. Painted with 2 coats of antirust paint & one coat of enamel paint	2	Nr		\$ -
	Finshes				
	Floor finishes				
	<i>Insitu cement and sand (1:3) screed</i>				
6A. 4.3	50mm thick screed for floor and ramp	15.55	m2		\$ -
	Miscellaneous				
6A. 4.4	Handrails for length of ramps on both sides, CHS 40mm dia. and 2 mm thickness, painted with 2 coats of antirust paint and 1 coat of enamel paint	2.00	Pairs		\$ -
	Plumbing installations		1		
6A. 4.5	Well finished squat hole with foot rest	2.00	Nr		\$ -
6A. 4.6	100mm diameter 3mm thick PVC Vent-pipe including fly screen.	2.00	Ea		\$ -
BILL NO. 7	BoQ 3-STANCE LATRINE AND WASHROOM ATTACHED NORMAL SOIL-NGOMBA & KAABI PHCU				\$ -
7.1	SUBSTRUCTURE - 1 Latrine Block, 3 Stances and washroom attached				\$ -
	Excavation and Earthwork (Provisional)				
7.1.1	Site clearance and removal of debris from site as directed	134.45	m2		\$ -
7.1.2	Excavate loose top soil average 200 deep from ground level and wheel and deposit on site as directed	134.45	m2		\$ -
7.1.3	Manual-Mass excavation for latrine pit not exceeding 1.5m deep starting from Ground level	24.00	m3		\$ -
7.1.4	Ditto exceeding 1.5-3.0m depth starting from stripped level	24.00	m3		\$ -
7.1.5	Excavate in soft material for foundation trenches and column bases not exceeding 1.8m depth starting from stripped level and 60 cm wide	21.11	m3		\$ -
7.1.6	Excavate in soft material for ramp trenches not exceeding 600mm depth	8.64	m3		\$ -
	Disposal of surplus spoils				
7.1.7	Load and cart away surplus material from site to an approved dumping site	77.75	m3		\$ -
	Selected filling				
7.1.8	200mm Thick hardcore fillings compacted in layers not exceeding 100mm deep and well watered under lobby ground slab and ramps	8.83	m3		\$ -
7.1.9	500mm Thick compacted selected fill to grade natural soil	7.67	m3		\$ -
	Damp proof membrane				
7.1.10	1000 gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net- allow for laps)	55.41	m2		\$ -
	Concrete work in substructure				
	<i>Plain concrete class 10 (mix 1:3:6)</i>				
7.1.11	50mm Thick surface blinding under strip foundation and bottom pit	1.30	m3		\$ -
7.1.12	Ditto for columns bases	0.22	m3		\$ -
7.1.13	Ditto for ramps	0.72	m3		\$ -
	<i>Insitu concrete class 25/20, vibrated and reinforced as described. in:-</i>				

7.1.14	Foundation strip (250mm thick)	2.48	m3		\$	-
7.1.15	Intermediate beams (200mm thick)	0.91	m3		\$	-
7.1.16	Column Bases (250mm thick)	1.08	m3		\$	-
7.1.17	Columns (substructure)	1.16	m3		\$	-
7.1.18	150mm thick ground floor slab over the pit and 100mm on the walk way	4.95	m3		\$	-
7.1.19	Ground beams (300mm thick by 200mm wide)	2.12	m3		\$	-
7.1.20	Ramp (minimum 100mm thick)	2.88	m3		\$	-
7.1.21	100mm thick bottom pit slab of concrete reinforced with mesh	1.60	m3		\$	-
	Reinforcement for Substructure					
	<u>High tensile steel reinforcement to B.S. 4461 in structural concrete work including cutting, bending, hoisting, fixing, tying wire and spacing blocks</u>					
7.1.22	8 mm diameter bars	146.83	kg		\$	-
7.1.23	10 mm diameter bars	383.63	kg		\$	-
7.1.24	12 mm diameter bars	461.38	kg		\$	-
7.1.25	16 mm diameter bars	0.00	kg		\$	-
	<u>Mesh reinforcement : B.S. 4483 Ref A142 weighing 2.22 kgs per square meter including bends, tying wire and spacing blocks</u>					
7.1.26	Fabric mesh reinforcement for ground floor, ramp and bottom pit slab	30.40	m2		\$	-
	Sawn formwork to:-					
7.1.27	Horizontal sides of Intermediate beam 200x200-Axes A&B)@-1.4	10.42	m2		\$	-
7.1.28	Horizontal sides of foundation strip	4.13	m2		\$	-
7.1.29	Horizontal sides of ground beams and floor slabs	29.74	m2		\$	-
7.1.30	Edge of ramps	5.28	m2		\$	-
	Foundation Walling					
	<u>Solid concrete block walling (mix 1:3:6); bedded, load bearing 7N/mm², jointed and pointed in cement sand (1:3) mortar; reinforced with hoop iron after every alternate course.</u>					
7.1.31	200mm Thick walling for pit	61.88	m2		\$	-
7.1.32	200mm thick plinth	38.30	m2		\$	-
	Plastering and Painting					
7.1.33	12 mm thick cement : sand (1:3) plaster to walling	92.04	m2		\$	-
	Sundries					
7.1.34	Allow for making squat hole openings in 150 mm slab	3.00	nr		\$	-
7.1.35	Ditto for making 600 x600 mm openings in 150 mm slab for manhole.	1.00	nr		\$	-
7.2	SUPERSTRUCTURE - 1 Latrine Block, 3 Stances and washroom attached				\$	-
7.2.1	Reinforced Concrete					
	<u>Insitu concrete class 25/20, vibrated and reinforced as described, in:-</u>					
7.2.2	Ring beam	1.60	m3		\$	-
7.2.3	Columns (superstructure)	0.61	m3		\$	-
	Reinforcement					
	<u>High tensile steel reinforcement to B.S. 4461 in structural concrete work including cutting, bending, hoisting, fixing, tying wire and spacing blocks</u>					
7.2.4	8 mm diameter bars	100.05	kg		\$	-
7.2.5	12 mm diameter bars	302.74	kg		\$	-
	Formwork					
	<u>Formwork in sawn finish at any level to:-</u>					
7.2.6	Sides and soffits of ring beams	24.07	m2		\$	-
7.2.7	Columns C1 & C2	16.20	m2		\$	-
	Walling					
	Damp proof Course					
	Three- ply bituminous felt damp proof course bedded in cement and sand (1:3) mortar (measured nett allow for 300mm laps):-	31.10	m		\$	-
	<u>Solid concrete block walling (mix 1:3:6); bedded, load bearing 7N/mm², jointed and pointed in cement sand (1:3) mortar; reinforced with hoop iron after every alternate course.</u>					
7.2.8	150mm Thick walls for toilet and curtain	64.60	m2		\$	-
7.3	ROOF AND RAIN WATER DISPOSAL - 1 Latrine Block, 3 Stances and washroom attached				\$	-
	<u>Contractor to allow for hoisting and all angle brackets or gusset plates, bolts, cleats, fish tailing lugs, drilling holes and the likes for fixing members to position as per the details provided.</u>		Note			
	Roof Construction					
	<u>Unframed mild steel including hoisting and fixing in position and including drilling holes, all necessary welding, bolts plates/gusset plates and other jointing whether or not specifically described herein or shown on the drawing and with one coat of red oxide primer after erection.(see the drawings)</u>					
7.3.1	100 x 50 x 2mm thick Z-purlins securely fixed onto the steel trusses (MS) at 900mm c/c spacing including all the welding, straining, surface preparation and hoisting into position	36.40	m		\$	-
7.3.2	16mm diam anchor bolts L=250 to be welded on steel	12.00	Nr		\$	-
7.3.3	240x150x6mm plate (fillet weld of 6mm thick) welded to the truss and column	12.00	Nr		\$	-
7.3.4	100x60x3mm RHS Rafter/top chord including all the welding, straining, surface preparation and hoisting into position	20.90	m		\$	-
	100x60x3mm RHS Tie beam/bottom chord including all the welding, straining, surface preparation and hoisting into position	19.40	m		\$	-
	Roof Covering					

7.3.5	Supplying & fixing of gauge 28 pre-painted Super Five IT4 profiled roofing sheets (0.5mm) of approved colour: fixed with J-bolts to 100 x 50 x 2mm zed purlins (measured separately) and rubber capping to tops of bolts	47.54	m2	\$	-
	Rain Water Disposal				
	<u>Supply and fix rain water system including the all accessories required to manufacturer's instructions.</u>				
7.3.6	250x350 GMS 2mm thick gutter on both sides of the roof eave	18.20	m	\$	-
7.3.7	Rainwater outlets with nozzle for 100mm rainwater down pipe outlet.	1.00	Nr	\$	-
7.3.8	1000L Plastic tank including plumbing work (pipe connections and taps)	1.00	lump sum	\$	-
7.3.9	Water tank concrete plinth construction including supply and installation of all materials and labour	1.00	lump sum	\$	-
7.3.10	Soak pit construction including supply and installation of all materials and labour	1.00	lump sum	\$	-
7.3.11	Storm water drainage	25.50	m	\$	-
7.4	DOORS, WINDOWS, FINISHES, PLUMBING - 1 Latrine Block, 3 Stances and washroom			\$	-
	Doors				
	<u>Note: All doors to be supplied and fixed as per the details and schedule provided. All iron Mongery that has not been measured separately shall be priced together with the corresponding door.</u>				
7.4.1	Door D1 90x237cm - RHS steel frame 40mm x 40 mm x 2mm painted with 2 coat of antirust paint and 1 coat of enamel paint with door leaf 180D opening made of 0.5mm flat metal pane with burglar proofing (RHS 25x25x2mm vertical steel bars at equal intervals welded to frame on the interior side. Louvers is 0.5mm thick welded at to frame.	3.00	Nr	\$	-
7.4.2	Door D2 110x237cm - RHS steel frame 40mm x 40 mm x 2mm painted with 2 coat of antirust paint and 1 coat of enamel paint with door leaf 180D opening made of 0.5mm flat metal pane with burglar proofing (RHS 25x25x2mm vertical steel bars at equal intervals welded to frame on the interior side. Louvers is 0.5mm thick welded at to frame.	1.00	Nr	\$	-
7.4.3	Door D3 100x210cm - RHS steel frame 40mm x 40 mm x 2mm painted with 2 coat of antirust paint and 1 coat of enamel paint with door leaf 180D opening made of 0.5mm flat metal pane with burglar proofing (RHS 25x25x2mm vertical steel bars at equal intervals welded to frame on the interior side. Louvers is 0.5mm thick welded at to frame.	1.00	Nr	\$	-
	Windows				
7.4.4	600x600mm high windows, RHS steel frame 40x40x2mm painted with 2 coats of antirust paint & one coat of enamel paint with steel louvers	4.00	Nr	\$	-
	Finishes				
	Floor finishes				
	<u>In situ cement and sand (1:3) screed</u>				
7.4.5	50mm thick screed for floor and ramp	38.18	m2	\$	-
	Wall Finishes				
	<u>Internal and external Walls: 12mm thick cement sand plaster, with steel trowelled finish, as described to:-</u>				
7.4.6	Internal wall plaster	88.66	m2	\$	-
7.4.7	External wall plaster	57.84	m2	\$	-
	Miscellaneous				
7.4.8	Manhole Cover (supply and form concrete for 600x600x10mm RC cover)	1.00	Nr	\$	-
	Plumbing installations				
7.4.9	PSN Seat attached with handrails support, casted with concrete and finished with tiles with pvc corner strips (400mm x 300mm x 400mm).	1.00	Nr	\$	-
	Supply and install handwash basin and 50l water bucket with its drainage (refer to hand wash details on the drawing)	1.00	lump sum	\$	-
7.4.10	Well finished squat hole with foot rest	2.00	Nr	\$	-
7.4.11	Handrails for length of ramps (on both sides	1.00	Pairs	\$	-
7.4.12	Vent-pipe	1.00	Item	\$	-
BILL NO. 8	CONSTRUCTION OF PRIMARY HEALTH CARE UNIT AT NGOMBA AND KAABI			\$	-
8.1	SITE PREPARATION & SUBSTRUCTURE			\$	-
	Excavation and Earthwork (Provisional)				
8.1.1	Site clearance and removal of debris from site as directed by the Engineer	168.36	m2	\$	-
8.1.2	Excavate loose top soil average 150mm deep from ground level, wheel and deposit away from site as directed	120.36	m2	\$	-
8.1.3	Excavate 800mm wide in soft material for strip foundation trenches not exceeding 1,500mm deep starting from stripped level	70.74	m3	\$	-
	Backfilling				
8.1.4	Return, fill and ram selected excavated material around foundations	27.69	m3	\$	-
	Disposal of Surplus excavated materials				
8.1.5	Load and cart away surplus material from site to an approved dumping site	21.39	m3	\$	-
	Selected filling				
8.1.6	400mm thick hardcore fillings compacted in layers with top surfaces well levelled	68.57	m2	\$	-
8.1.7	50mm thick sand blinding to surfaces of hardcore (Measured Separately)	3.43	m3	\$	-
	Damp proof membrane				
8.1.8	1000 gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net- allow for laps). Cost to include anti termite treatment.	80.36	m2	\$	-
	Anti-termite Treatment				

8.1.9	Anti - termite treatment to building area, other excavated trenches and pits with "Aldrex 48" or other equal approved anti-termite solution in accordance with manufacturer's instructions and as directed by the IOM Engineer.	100.07	m2	\$	-
	Concrete work in substructure				
	<u>Mass plain concrete class 15 (mix 1:3:6)</u>				
8.1.10	50mm Thick surface blinding under strip foundation	2.36	m3	\$	-
	Insitu concrete class 25, vibrated and reinforced as described, in:-				
	Foundation strip, column footing and ground beam	16.50	m3	\$	-
8.1.11	100mm thick ground floor slab, grade 20 RCC	8.00	m3	\$	-
	Reinforcement				
	<u>High tensile steel reinforcement to B.S. 4461 in structural concrete work including cutting, bending, hoisting, fixing, tying wire and spacing blocks as described to:-</u>				
8.1.12	12mm bars to column footing, starter columns and ground beam	542.92	kg	\$	-
8.1.13	8mm mild steel bars links to starter columns and ground beam	156.33	kg	\$	-
	Mesh reinforcement ; B.S. 4483 Ref A98 cost shall include; bends, tying wire and spacing blocks				
8.1.14	Fabric mesh reinforcement to ground floor and ramp	87.56	m2	\$	-
	Sawn formwork to:-				
	Vertical sides of column foundation and starter columns	64.80	m2	\$	-
	Edges of ground slab 75-150mm girth and ramps	36.00	m	\$	-
	Foundation Plinth Wall				
	<u>Solid concrete block walling (mix 1:3:6); bedded, load bearing 7N/mm², jointed and pointed in cement sand (1:3) mortar; reinforced with hoop iron after every alternate course.</u>				
8.1.15	200mm Thick walling	135.72	m2	\$	-
	Plinths				
8.1.16	12 mm thick cement : sand (1:3) plaster to plinth	147.24	m2	\$	-
8.1.17	Three coats of bituminous paint to plinth surfaces.	147.24	m2	\$	-
8.1.18	Damp proof courses: hessian based bituminous felt: bedded in cement and sand (1:4) mortar: 300mm laps.	58.95	m	\$	-
	Splash Apron				
8.1.19	Excavate strip foundation for apron depth n.e 900mm, 450mm wide	11.12	m3	\$	-
8.1.20	Return, fill and ram selected excavated material around foundations	6.70	m3	\$	-
8.1.21	Remove surplus excavated materials from site as dispose as may be directed	1.85	m3	\$	-
8.1.22	100mm thick foundation concrete to bottom of excavation-1:3:6	2.01	m3	\$	-
8.1.23	200mm thick c/s block wall bedded in 1:4 mortar mix with hoop iron at every alternate course	20.60	m2	\$	-
8.1.24	150mm filling in imported materials, well watered and compacted	1.67	m3	\$	-
8.1.25	75mm thick grade 20 reinforced concrete in A98 BRC mesh on apron topping	20.07	m2	\$	-
8.1.26	20mm thick c/s screed on apron topping finished in steel float, mix 1:3	20.07	m2	\$	-
8.1.27	Sawn form work to sides of oversite apron concrete topping	8.92	m2	\$	-
8.2	STRUCTURAL FRAME			\$	-
	Reinforced Concrete				
	Insitu concrete class 25, vibrated and reinforced as described, in:-				
8.2.1	Ring beams	3.14	m3	\$	-
8.2.2	Columns	1.30	m3	\$	-
	Reinforcement				
	<u>High tensile steel reinforcement to B.S. 4461 in structural concrete work including cutting, bending, hoisting, fixing, tying wire and spacing blocks</u>				
8.2.3	8 mm diameter bars in columns and ring beam - stirrups	182.64	kg	\$	-
8.2.4	12 mm diameter bars in columns and ring beam	359.70	kg	\$	-
	Formwork				
	Formwork in sawn finish at any level to:-				
8.2.5	Sides and soffits of ring beams	24.86	m2	\$	-
8.2.6	Sides of columns	32.40	m2	\$	-
	WALLING			\$	-
	External Walling				
	<u>Solid concrete block walling (mix 1:3:6); bedded, load bearing 7N/mm², jointed and pointed in cement sand (1:3) mortar; reinforced with hoop iron after every alternate course.</u>				
8.2.7	200mm Thick walls	140.88	m2	\$	-
8.2.8	150mm Thick walls	15.53	m2	\$	-
	Sundries				
8.2.9	Allow for making 50mm openings in 200 mm thick wall	4.00	nr	\$	-
8.3	ROOF AND RAIN WATER DISPOSAL(contractors to cost for steel or timber roof members but not both)			\$	-
	Roof Construction(Steel Members)				
	<u>Structural steelwork grade 4.3C (factory primed) to be executed by an approved sub-contractor.</u>				
	<u>Unframed mild steel including hoisting and fixing in position and including drilling holes, all necessary welding, bolts plates/gusset plates and other jointing whether or not specifically described herein or shown on the drawing and with one coat of red oxide primer after erection.(see the drawings)</u>				
8.3.1	50 x 50 x 3mm Bottom chord, welded to the top of column	41.00	m	\$	-
8.3.2	50 x 50 x 3mm Top chord welded with 6mm fillet welds to 40 x 40 x 3mm RHS internals (RHS internals measured separately)	45.00	m	\$	-

8.3.3	50 x 50 x 3mm RHS internals welded with 6mm fillet welds to 50 x 50 x 3mm Bottom/top chords (Bottom and Top chords measured separately)	10.00	m	\$	-
8.3.4	40x40x3mm RHS section bracings welded to trusses at each intersection; including necessary drilling holes welding/bolts and washers	37.00	m	\$	-
8.3.5	100 x 50 x 2mm thick Z-purlins securely fixed onto the steel trusses (MS) including all the welding, straining, surface preparation and hoisting into position.	127.16	m	\$	-
8.3.6	16mm diam anchor bolts L=250 to be welded on steel reinforcement	12.00	nr	\$	-
8.3.7	150x150x8mm plate (fillet weld of 6mm thick) welded to the truss and column	12.00	nr	\$	-
	Roof Covering				
8.3.8	Supplying & fixing of gauge 28 pre-painted Super Five IT4 profiled roofing sheets (0.5mm) of approved colour: fixed with J-bolts to 100 x 50 x 2mm zed purlins (measured separately) and rubber capping to tops of bolts	116.66	m2	\$	-
8.3.9	Supplying & fixing Gauge 28 prepainted ridge cap; 650mm girth (average) in position complete with all necessary roofing screws or hooks as required.	11.66	m	\$	-
8.3.10	25x225mm high timber valance board / barge board bolted to 100 x 100 x 8mm thick mild steel plate with 4 No 12mm diameter bolts : plates welded to edges of rafters: all complete with approved wood preservative as specified. Painted with 1 coat of emulsion under coat and finished with 3 coats of an oil-based gloss paint in white	10.00	m2	\$	-
	Rain Water Disposal				
	Supply and fix rain water system to manufacturer's instructions.				
8.3.11	250 x 350 x 2mm galvanised metal sheet gutter welded on 40 x 25 x 2mm RHS; gutter sitting on 20 x 6mm thick metallic support bracket placed at 2000mm c/c	21.40	m	\$	-
8.3.12	Extra over for shoe.	16.00	Nr	\$	-
8.3.13	Ditto for rainwater outlets with nozzle for 80mm rainwater down pipe outlet.	2.00	Nr	\$	-
	Ceiling				
8.3.14	Construct a plastered ceiling using timbers of sizes 100x50mm attached to metallic roof struss by where necessary drilling and bolting the timber members to steel to ensure the suspended members are firmly holdup to its positions before plastering as approved quality by IOM engineer, cost includes ceiling joists, branders, vertical and horizontal supports, metal lathe, connections etc. c/s mix 1:4	94.17	m2	\$	-
8.4	DOORS AND WINDOWS			\$	-
	DOORS				
	Note: All doors to be supplied and fixed s per the details and schedule provided. All iron Mongery that has not been measured separately shall be priced together with the corresponding door.				
	Steel Plated Doors				
8.4.1	Mild steel plated single leaf door made out of cold rolled steel sections in 40x40x2mm SHS frame material, 25x25x2mm vertical SHS burglar welded internally, 0.5mm thick flat metal plate for shutter and 0.5mm thick louvers; thoroughly cleaned and phosphatized to resist corrosion before receiving 2 undercoats of anti-rust primer and one finishing coats of enamel paint on metal surfaces (D1 - Size: 1000x2700mm overall)	5.00	Nr	\$	-
8.4.2	Two leaf door made out of 0.5mm thick mild steel plate welded to 40x40x2mm SHS bars frames; fixed to 40x40x2mm thick mild steel SHS external frame; stainless steel parliament hinges, door lock with pull - push bar handle. All metals surfaces thoroughly cleaned and phosphatized to resist corrosion before receiving 2 undercoats of anti-rust primer and one finishing coats of enamel paint on metal surfaces (D2 - Size: 1200x900mm overall)	1.00	Nr	\$	-
	Painting and Decorating				
	Prepare and apply two coats of brown rust inhibiting primer finished with two coats of white matt oil paint on metal:-				
8.4.3	Surfaces steel plated doors and steel frames	10.45	m2	\$	-
	WINDOWS				
	Steel - Glazed windows				
	<u>Steel casement windows in 40x40x2mm RHS frames with and including burglars in 25x25x2mm vertical steel bars at equal interval welded to frames on the interior side. 0.5mm thick louvers fixed over with mosquito wire netting. thoroughly cleaned and phosphatized to resist corrosion before receiving 2 undercoats of anti-rust inhibiting primer and one finishing coats enamel paint to all metal surface. Cost includes window stays and fasteners.</u>				
8.4.4	W1. 1500x1700mm. door Frame material is LTZ steel frame 40mm x 40mm x 2mm, Painted with 2 coats of antirust paint & one coat of enamel paint glazed with 5mm thick clear glass. Bugler proofing is RHS 25 X 25 X 2 mm steel bars welded to frames at equal spacing behind glazings on the interior side and 0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net. Ironmongry stainless steel pull-push bar handle	3.00	Nr	\$	-
8.4.5	W2. 600x900mm door Frame material is LTZ steel frame 40mm x 40mm x 2mm, Painted with 2 coats of antirust paint & one coat of enamel paint glazed with 5mm thick clear glass. Ironmongry stainless steel pull-push bar handle	1.00	nr	\$	-
8.4.6	W3. 600x1500mm. door Frame material is LTZ steel frame 40mm x 40mm x 2mm, Painted with 2 coats of antirust paint & one coat of enamel paint glazed with 5mm thick clear glass. Bugler proofing is RHS 25 X 25 X 2 mm steel bars welded to frames at equal spacing behind glazings on the interior side and 0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net. Ironmongry stainless steel pull-push bar handle	2.00	Nr	\$	-

8.4.7	W4. 1200x1700mm. door Frame material is LTZ steel frame 40mm x 40mm x 2mm, Painted with 2 coats of antirust paint & one coat of enamel paint glazed with 5mm thick clear glass. Bugler proofing is RHS 25 X 25 X 2 mm steel bars welded to frames at equal spacing behind glazings on the interior side and 0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net. Ironmongry stainless steel pull-push bar handle	3.00	nr		\$ -
8.4.8	5mm thick clear glass fixed to windows with glass silcon and putty	10.12	Nr		\$ -
8.4.9	75mm pre cast concrete cill to all windows	11.00	m		\$ -
8.5	FINISHES				\$ -
	Floor finishes				
	Insitu cement and sand (1:3) screed				
8.5.1	50mm thick screed finish on floor in steel float	68.33	m2		\$ -
	Wall Finishes				
	<u>Internal Walls: 12mm thick cement sand plaster, with steel trowelled finish, as described to:-</u>				
8.5.2	Internal Sides of solid block/brick surfaces	169.62	m2		\$ -
8.5.3	To plastered wall surfaces	169.62	m2		\$ -
	External Walls: 12mm Cement and sand (1:3) render on stone or concrete work to:-				
8.5.4	Concrete or block work	136.07	m2		\$ -
	Prepare and apply two undercoats of soft white/cream permaplast weather proof paint which is offering protection against severe tropical weather and 15mm thick wall master textured paint finish as ruff & tuff to:-				
8.5.5	External wall surfaces	136.07	m2		\$ -
	Ceiling finishes				
8.5.6	Apply 15mm thick c/s plaster of mix 1:3 to ceiling soffit	94.00	m2		\$ -
8.5.7	Prepare and apply one undercoat and 2 finishing coats of matt paint to protect ceiling soffit	94.00	m2		\$ -
8.6	ELECTRICAL INSTALLATION	1.00			\$ -
	Conduit work				
	<u>Supply and installation of upvc electrical conduits for passage of wires in walls and ceiling, rates inclusive of wall chesiling</u>				
8.6.1	25mm conduits	86.00	m		\$ -
8.6.2	Extra over to corners (bents 25mm)	15.00	Nr		\$ -
8.6.3	Couplers 25mm	10.00	Nr		\$ -
8.6.4	Circular boxes 25mm	18.00	Nr		\$ -
8.6.5	Metallic MK boxes (Double)	9.00	Nr		\$ -
8.6.6	Metallic MK boxes (Single)	5.00	Nr		\$ -
8.6.7	Supply and installation of main switch 4-way (MCB) 16A	1.00	Nr		\$ -
	Wiring work				
8.6.8	Supply and installation of insulated twin cables in conduits, twin cable.				
8.6.9	Load cable, 16mm2 (single)	18.00	m		\$ -
8.6.10	Power cable 2.5mm2	100.00	m		\$ -
8.6.11	Light cables 1.5mm2	150.00	m		\$ -
	FIXTURES				\$ -
	Bench Seats				
8.6.12	450 x 500 x 2,900mm bench seat made of precast concrete with bench of 100mm thick and 2 legs, masonry base wall 350mm x 500mm x 350mm high all according to detail drawing. Bench shall be smooth finish.	8.00	Nr		\$ -
BILL NO. 9	BOQ - REHABILITATION OF 1 PHCU BLOCK IN ABUSHAKA.	unit			\$ -
	SUBSTRUCTURE				\$ -
	Excavation				
9.1.1	Site clearance of 40m x 2m and removal of debris from site as directed	m2	80		\$ -
9.1.2	Excavate strip foundation for ramp not exceeding width of 1200mm and depth of 400 mm including removal of surplus material from site.	m3	4.32		\$ -
	Backfilling				
	<u>Return, fill in and ram selected excavated material around foundations</u>	m3	0.045		\$ -
	Disposal of Surplus spoils				
	<u>Load and cart away surplus material from site to an approved dumping site</u>	m3	4.275		\$ -
	Crushed stone fill				
	Imported filling				
9.1.3	min 100mm thick compacted selected fill to grade to the ramp	m3	2.16		\$ -
	Anti-termite treatment				
9.1.4	TERMIDOR' or other equal and approved insecticide with a ten-years guarantee to surfaces of fill and tops of ramp foundations	m2	21.6		\$ -
	Damp Proofing				
2.1.5	1000 gauge polythene sheet damp proof membrane: to floors: laid on blinded smooth finished hardcore bed with 300mm side and end laps to receive concrete floor bed (m/s) - measured net with no allowance for overlaps	m2	21.6		\$ -
2.1.6	Concrete ramps at slope not exceeding degree 1:20	lump sum	2		\$ -
	Concrete work in substructure				
	<u>Plain concrete class 15 (mix 1:3:6)</u>				
9.1.7	50mm Thick surface blinding under ramp foundations	m3	1.08		\$ -
	In Situ concrete class 25, vibrated and reinforced as described, in:-				
9.1.8	Construct concrete Ramp not exceeding 100mm	m3	2.16		\$ -
	Reinforcement				

9.1.9	Fabric mesh reinforcement to ramp	m2	21.6	\$	-
	Sawn formwork to:-				
9.1.10	Horizontal sides of ramp foundations	m2	15.84	\$	-
9.1.11	Edges of 100mm high ramp floor slab	m2	2.64	\$	-
	Foundation walling				
	Plinths				
9.1.12	12 mm thick cement : sand (1:3) plaster to plinth	m2	15.84	\$	-
9.1.13	Prepare and apply one priming coat and two coats of black bitumastick paint on rendered plinths	m2	15.84	\$	-
9.2	Ceiling			\$	-
9.2.1	Supplying & fixing of Gypsum Ceiling board including; Channels GCS 52mm*10ft (Drywall Metal Profile) Gypsum Board Hada 4ftx8ftx9mm (Drywall for Ceiling), Gypsum Stud GCS 2.8mx52mm, Gyproc Gypsum Board 9mm, Gypsum Cornice GC01C 4Inch, Moulding Cornice Panel Moulding Stucco Decoration 2 m Orac Decor CX111 AXXENT, Gyproc Gypsum Filler 25kg, Gypsum Drywall Screws 1Inchx1000pcs, Plain PVC Laminated Gypsum Board with Waterproof and Fireproof Features	m2	171.58	\$	-
	Valance / Barge Board				
9.2.2	Wooden fascia boards bolted to edges of rafters: all complete with approved as specified and as per Drawing.	m	123.6	\$	-
	DOORS and Windows			\$	-
	<i>Note: All doors to be supplied and fixed as per the details and schedule provided. All iron Mongery that has not been measured separately shall be priced together with the corresponding door.</i>				
9.2.3	Steel doors to fit structural opening size 1100mm x 2200mm high: RHS steel frame 40mm x 40mm x 2mm, Painted with 2 coats of antirust paint & one coat of enamel paint, 180D Opening, 0.5mm casement metal pane, with Bugalar proofing with RHS 25mm x 25mm x 2mm Vertical steel bars at equal intervals welded to frames on the exterior side. Ironmongry stainless steel pull-push bar handle, 0.5mm thick steel louvers at top welded to RHS frame. Louver to be covered with approved mosquito net.	Nr	12	\$	-
	<u>Painting and Decorating: Prepare and apply two coats of brown rust inhibiting primer finished with two coats of white matt oil paint on metal:-</u>				
9.2.4	Surfaces steel plated doors and steel frames	m2	38.72	\$	-
	<u>Purpose made steel casement windows manufactured from standard strong Z sections: manufacture, assemble and deliver to site: Supply and fix ironmongery comprising approved hinges, stays, fasteners to opening lights: frames drilled, plugged and screwed or built into walling: one coat red oxide primer before delivery.</u>				
9.2.5	Window 1000x1200mm. door Frame material is LTZ steel frame 40mm x 40mm x 2mm, Painted with 2 coats of antirust paint & one coat of enamel paint glazed with 5mm thick clear glass. Bugler proofing is RHS 25 X 25 X 2 mm steel bars wended to frames at equal spacing behind glazings on the interior side and 0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net. Ironmongry stainless steel pull-push bar handle	Nr	12	\$	-
9.3	FINISHES			\$	-
	Floor Finishes				
	External wall finishes Cement and sand(1:4)				
9.3.1	100mm thick ground floor slab (rooms & Verandah) C-25 concrete	m3	24.36	\$	-
	<u>Cement and sand (1:3) screeds and pavings: one coat: steel trowel finish: laid on concrete</u>				
9.3.2	50mm thick screeding	m2	243.58	\$	-
9.3.3	300mm x 10mm rendered skirt, 15mm thick cement sand plaster (1:4), with steel trowelled, finish with 3 coats of bituminous paint	m	147	\$	-
	<u>Internal and external Walls: 15mm thick cement sand plaster (1:4), with steel trowelled finish.</u> <u>Paint: 1 coat of emulsion under coat on all walls. For interior walls, finish with 3 coats of matte vinyl paint in soft white. For exterior walls, finish with 3 coats of emulsion wather guard paint in smoked grey</u>				
9.3.4	External wall rendering and paint, 15mm thick cement sand plaster (1:4), with steel trowelled finish, Paint: 1 coat of emulsion under coat, finish with 3 coats of emulsion wather guard paint in smoked grey	m2	204.2	\$	-
9.3.5	Internal wall plastering and paint, 15mm thick Cement/lime putty/sand (1:2:9), with steel trowelled finish, Paint: 1 coat of emulsion under coat, finish with 3 coats of matte vinyl paint in soft white	m2	203.2	\$	-
	FITTINGS & FIXTURES				
	Water Tank Supply				
9.3.6	500L top tank including plumbing work (pipe connections and taps)	lump sum	1.00	\$	-
9.3.7	Water tank concrete plinth construction including supply and installation of all materials and labour	lump sum	1.00	\$	-
9.3.8	Supply and fix 250 x 350mm x 4mm PVC gutter with all the accessories connect to the tank.	lump sum	1.00	\$	-
BILL NO. 10	BOQ - REHABILITATION OF 2 BLOCKS LATRINE EACH OF 3-STANCES AT ABUSHAKA PHCU			\$	-
10.1.0	CONCRETE & MASONRY WORK			\$	-

10.1.1	Construct a 200mm x 200mm Ring beam, C-25 concrete, after removing the top wall and shall be directed by the site Engineer Class	Lump sum	1.00		\$ -
10.1.2	Lobby construction (1.5 m wide): excavate 500 mm deep and place min 500 mm thick compacted selected fill to grade, pour a 100 mm thick concrete floor slab (C-20) reinforced with BRC mesh A98 as shall be directed by the site Engineer	Lump sum	1.00		\$ -
10.1.3	Curtain Wall construction 200mm thick (1.5 m high): excavate 500 mm deep as directed by the engineer.	Lump sum	1.00		\$ -
10.1.4	Construct access ramp with hand rails and a slope of 5% as shall be directed by the site Engineer; Min 1.5 m wide ramp, In Situ concrete class 20, vibrated with a minimum concrete thickness of 100mm at all points with reinforced Mesh; B.S. 4483 weighing 2.22 kgs per square meter including bends, tying wire and spacing blocks. Supply & install a pair of handrails for length of ramps on both sides, CHS 50mm dia. and 2.5 mm thickness, painted with 2 coats of antirust paint and 1 coat of enamel paint	Nr	1.00		\$ -
10.1.5	Construct flash apron, 500 mm wide	Lump sum	1.00		\$ -
10.2	ROOF AND RAIN WATER DISPOSAL				\$ -
	Roof Construction				
	Timber structure with Mahogany wood in the same configuration of the steel roof design in the drawings				
	<u>Rates inclusive of nails, hoop iron at joints, cutting and application of creosote or other approved wood preservative on the timber surfaces in two coats.</u>				
10.2.1	100x75mm wall plate	m	15.60		\$ -
10.2.2	100x50mm rafters	m	9.60		\$ -
10.2.3	100x50mm purlins	m	15.60		\$ -
	Roof Covering				
10.2.4	Supplying & fixing of gauge 28 pre-painted Super Five IT4 profiled roofing sheets (0.5mm) of approved colour: fixed with roofing nails to 100 x 50 timber as purlins (measured separately) and rubber seals	m2	8.32		\$ -
10.2.5	25x225mm high timber fascia board nailed to 100 x 50mm rafters edges: all complete with approved wood preservative as specified. Painted with 1 coat of emulsion under coat and finished with 3 coats of an oil-based gloss paint in white	m	15.60		\$ -
10.2.6	Supply and install 6" (150mm) dia. and 4mm thick PVC gutter and all the down pipe fittings, screwed on 25 x 225mm wooden fascia board with support bracket placed at 2000mm c/c	m	5.20		\$ -
10.2.7	Install 4 inch PVC Vent Pipe with Cap and fly screen as recommended by the site Engineer	Nr	2.00		\$ -
10.3	DOORS				\$ -
	<u>Note: All doors to be supplied and fixed as per the details and schedule provided. All iron Mongery that has not been measured separately shall be priced together with the corresponding door.</u>				
10.3.1	Steel doors to fit structural opening size 800mm x 2100mm high: RHS steel frame 40mm x 40mm x 2mm, Painted with 2 coats of antirust paint & one coat of enamel paint, 180D Opening, 0.5mm casement metal pane, with Bugalar proofing with RHS 25mm x 25mm x 2mm Vertical steel bars at equal intervals welded to frames on the exterior side. Ironmongry stainless steel pull-push bar handle, 0.5mm thick steel louvers at top welded to RHS frame. Louver to be covered with approved mosquito net.	Nr	3.00		\$ -
10.3.2	Painting: Prepare and apply two coats of brown rust inhibiting primer finished with two coats of white matte oil paint on metal:-	Lump sum	1.00		\$ -
	Supply and fix the following LOUVERS				
10.3.3	Louvers 300x800mm Ventilation. door Frame material is LTZ steel frame 40mm x 40mm x 2mm, Painted with 2 coats of antirust paint & one coat of enamel paint welded with recommended mosquito wire as per the drawing.	Nr	3.00		\$ -
10.4	FINISHES				\$ -
10.4.1	50mm thick floor screed, including lobby	m2	4.20		\$ -
	External wall finishes, Cement:sand (1:4)				
10.4.2	10mm plaster to: walls and concrete surfaces: steel trowelled smooth	m2	98.41		\$ -
	Internal Wall finishes, Cement:sand (1:4)				
10.4.3	15mm plaster to: walls and concrete surfaces: steel trowelled smooth	m2	81.00		\$ -
10.4.4	Prepare surfaces: apply three coats weather guard emulsion to exterior plastered surface.	m2	98.41		\$ -
10.4.5	Supply and install one hand washing station as per the hand wash tank stand including the foundation, plinth wall, concrete slab, brick wall, compacted murrum, top slab and 500L water tank with all fittings. See ToR and Scope of work.	Lump sum	1.00		\$ -
10.4.6	Provide foot rest for the squat hole and smooth finish as directed by the site Engineer each stance	Nr	3.00		\$ -
BILL NO. 11	BOQ - REHABILITATION OF 1 STORE BLOCK IN ABUSHAKA PHCU.	1			\$ -
	SUBSTRUCTURE				
	Excavation				
	Solid blocks 200mm thick				\$ -
11.1.1	Repair of minor cracks on the Wall patching up cement and sand	LS	1		\$ -
	ROOF AND RAIN WATER DISPOSAL				\$ -
	Roof Covering				
11.1.2	Supplying & fixing of gauge 28 pre-painted Super Five IT4 profiled roofing sheets (0.5mm) of approved colour: fixed with J-bolts to 100 x 50 x 2mm zed purlins (measured separately) and rubber capping to tops of bolts	m2	30		\$ -

11.1.3	Wooden fascia boards nailed to edges of rafters: all complete with approved as specified and as per Drawing.	m	22		\$	-
	DOORS and Windows					
	<i>Note: All doors to be supplied and fixed as per the details and schedule provided. All iron Mongery that has not been measured separately shall be priced together with the corresponding door.</i>					
11.1.4	Steel door to fit structural opening size 1100mm x 2200mm high: RHS steel frame 40mm x 40mm x 2mm, Painted with 2 coats of antirust paint & one coat of enamel paint, 180D Opening, 0.5mm casement metal pane, with Bugalar proofing with RHS 25mm x 25mm x 2mm Vertical steel bars at equal intervals welded to frames on the exterior side. Ironmongry stainless steel pull-push bar handle, 0.5mm thick steel louvers at top welded to RHS frame. Louver to be covered with approved mosquito net.	Nr	1		\$	-
	Painting and Decorating					
	<i>Prepare and apply two coats of brown rust inhibiting primer finished with two coats of white matt oil paint on metal:-</i>					
11.1.5	Surfaces steel plated doors and steel frames	m2	9.68		\$	-
	WINDOWS					
	<i>Purpose made steel casement windows manufactured from standard strong Z sections; manufacture, assemble and deliver to site: Supply and fix ironmongery comprising approved hinges, stays, fasteners to opening lights: frames drilled, plugged and screwed or built into walling: one coat red oxide primer before delivery.</i>					
	Supply and fix the following					
11.1.6	W 1000x1200mm. door Frame material is LTZ steel frame 40mm x 40mm x 2mm, Painted with 2 coats of antirust paint & one coat of enamel paint glazed with 5mm thick clear glass. Bugler proofing is RHS 25 X 25 X 2 mm steel bars wended to frames at equal spacing behind glazings on the interior side and 0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net. Ironmongry stainless steel pull-push bar handle	Nr	1		\$	-
11.2	FINISHES				\$	-
	Wall Finishes					
	<i>Internal and external Walls: 15mm thick cement sand plaster (1:4), with steel trowelled finish. Paint: 1 coat of emulsion under coat on all walls. For interior walls, finish with 3 coats of matte vinyl paint in soft white. For exterior walls, finish with 3 coats of emulsion wather guard paint in smoked grey</i>					
11.2.1	External wall rendering and paint, 15mm thick cement sand plaster (1:4), with steel trowelled finish, Paint: 1 coat of emulsion under coat, finish with 3 coats of emulsion wather guard paint in smoked grey	m2	75		\$	-
11.2.2	Internal wall plastering and paint, 15mm thick Cement/lime putty/sand (1:2:9), with steel trowelled finish, Paint: 1 coat of emulsion under coat, finish with 3 coats of matte vinyl paint in soft white	m2	60		\$	-
11.2.3	300mm x 10mm rendered skirt, 15mm thick cement sand plaster (1:4), with steel trowelled, finish with 3 coats of bituminous paint	m	22		\$	-
Project Description: Expansion of Ngomba PHCU & construction of 3 stance latrine and Chain link fence; Expansion of Kaabi PHCU & construction of 3						
BILL SUMMARY						
BILL NO. 1	PRELIMINARIES	1.00	UNIT	\$	-	\$ -
BILL NO. 2	BOQ - REHABILITATION OF KHOR GHANA PHCU-BESSILIA PAYAM	1.00	UNIT	\$	-	\$ -
BILL NO. 3	BOQ -KHOR GHANA PHCU STORE REHABILITATION (NORMAL SOIL)	1.00	UNIT	\$	-	\$ -
BILL NO. 4	CONSTRUCTION OF CHAIN-LINK FENCE (50MX50M) WITH VEHICULAR GATE AT KHORGHANA PHCU	4.00	UNIT	\$	-	\$ -
BILL NO. 5	REHABILITATION OF I BLOCK OF 3 STANCES VIP LATRINE AT KHOR GHANA PHCU	1.00	UNIT	\$	-	\$ -
BILL NO. 6	REHABILITATION OF I BLOCK OF 2 STANCES VIP LATRINE AT KHOR GHANA & KAABI PHCU	2.00	UNIT	\$	-	\$ -
BILL NO. 7	BoQ 3-STANCE LATRINE AND WASHROOM ATTACHED NORMAL SOIL-NGOMBA & KAABI PHCU	2.00	UNIT	\$	-	\$ -
BILL NO. 8	CONSTRUCTION OF PRIMARY HEALTH CARE UNIT AT NGOMBA AND KAABI	2.00	UNIT	\$	-	\$ -
BILL NO. 9	BOQ - REHABILITATION OF 1 PHCU BLOCK IN ABUSHAKA.	1.00	UNIT	\$	-	\$ -
BILL NO. 10	BOQ - REHABILITATION OF 2 BLOCKS LATRINE EACH OF 3-STANCES AT ABUSHAKA PHCU	2.00	UNIT	\$	-	\$ -
BILL NO. 11	BOQ - REHABILITATION OF 1 STORE BLOCK IN ABUSHAKA PHCU.	1.00	UNIT	\$	-	\$ -
GRAND TOTAL					\$	-