

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BILLS OF QUANTITIES For the Proposed CONSTRUCTION OF MATUWA MINI HOSPITAL AND ASSOCIATED EXTERNAL WORKS IN SIAVONGA DISTRICT, SOUTHERN PROVINCE FOR SIAVONGA TOWN COUNCIL (STC) FINANCED BY ZAMBEZI VALLEY DEVELOPMENT FUND (ZVDF) GENERAL SUMMARY				
	BILL NR. 1 PRELIMINARIES AND GENERAL ITEMS			K	-
	BILL NR. 2 HOSPITAL BLOCK			K	-
	TOTAL CARRIED TO CONTRACTOR'S BID FORM			K	-
	Signature of Contractor :.....				
	Name of Firm:.....				
	Address:.....				
	Date:.....				

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT ZMW
	PRELIMINARIES AND GENERAL ITEMS <i>NOTE: The value of preliminaries and general items shall not exceed 5% of the value of measured works of the project</i>			
1.01	Site Mobilization The contractor shall set up the site working areas and material storage facilities as may be deemed necessary including all required site mobilization activities such as all the plant, tools and vehicles required for the due execution of the whole of the Works.	Item	1	
1.02	Site Meetings, Works Supervision an Management: The Contractor shall allow for all expenses associated with convening and attending monthly site progress meetings with client's staff and stage inspection of works quality and progress .	Item	1	
1.03	Site temporary water supply Provide and maintain an adequate temporary supply of clean fresh water for the whole of the works, complete with all necessary plumbing, stop and bib taps, tubs, tanks or other storage and all the necessary plumber's works.	Item	1	
1.04	Lighting and Power for the Works Provide and maintain at all times, including periods temporary power supply at the appropriate voltage, with all required temporary wiring equipment	Item	1	
	Carried To Collection			-

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT ZMW
1.05 Notice Board	The Contractor is to provide 1No. Notice Boards in accordance with the requirements of the Project Manager / Architect and erect it where directed	Item	1	
1.06 Sanitation of the Works	Sanitation at the Works shall be arranged and maintained by the Contractor to the satisfaction of the Local Authorities	Item	1	
1.07 Description	The contractor shall upon completion of the works remove all equipment, tools and remaining materials and clean the site as may be approved by the Project Engineer	Item	1	
To Collection				-

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT ZMW
1.08	Site Healthy, Safety and Welfare; The Contractor shall provide full PPE to all workers on site throughout the project duration. The contractor shall ensure to maintain a healthy and safe site environment and welfare of workers in accordance with national regulations In addition the Contractor will be required to appoint a Safety Officer in accordance with the requirements of the Health and Safety Act.	Item	1	
	1.09 Quality Control and Assurance The Contractor shall provide all the costs associated with providing samples of materials and carrying out necessary concrete tests for the footing, slab and ringbeam concrete in the presence of the supervising officer. The contractor will produce compressive strength test for three samples the prescribed blockwork sizes. The supervising officer shall certify such materials as fit for site use.	Item	1	
	To Collection			-
	COLLECTION			
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	TOTAL P&Gs CARRIED TO GENERAL SUMMARY			-

CLINIC BLOCK

BILL No. 2 - CLINIC BLOCK					
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUBSTRUCTURE				
	<u>Preambles</u>				
	The substructure has been measured up to and including the concrete floor. The site is assumed to be level and the substructure has been measured accordingly				
	EXCAVATION AND EARTHWORK				
	Site Preparation				
A	Treating surface top of hardcore filling under floor bed and bottoms and sides of excavations with approved ant-treatment as described	1,200	m ²		
B	Stripping and overburden material average depth 150mm and disposal off site	794	m ²		
	Excavation				
C	Excavating trenches to receive foundations starting from reduced level and depth not exceeding 1.50m	278	m ³		
D	Extra over excavating in hard rock	2	m ³		
E	Backfilling and compacting around foundations as described	38	m ³		
F	Levelling and compacting bottoms of excavations	185	m ²		
	Disposal of Water				
G	Keep all excavations free from general water (Provisional)		Item		
	Planking and Strutting				
H	Description faces of excavations as described		Item		
	To Collection			K	-

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUBSTRUCTURE (All Provisional)				
	Hardcore filling				
A	150mm thick hardcore filling laid level, compacted	670	m ²		
	CONCRETE WORK				
	Plain in-situ concrete				
	<u>Plain in-situ concrete grade C15 as described</u>				
B	50mm thick Blinding in trenches	185	m ²		
	Reinforced in-situ concrete				
	<u>Reinforced in-situ concrete Grade 25 as described</u>				
C	Strip footing in trenches (200mm thick)	37	m ³		
F	100mm thick floor bed	67.60	m ³		
G	100mm thick ramp	0.60	m ³		
	To Collection			K	-

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUBSTRUCTURE (All Provisional)				
	CONCRETE WORK				
	Reinforcement				
	<u>High yield steel deformed bar reinforcement as described including all cutting bending, hooking and cranking, assembling etc, in accordance with the drawings and wiring with and including No. 16 SWG annealed iron binding wire and hoisting and lowering and fixing in position</u>				
B	12mm diameter bars required quantities 567kg (Materials available on site 106.6kg) <u>High yield round bar reinforcement as described including all cutting bending, hooking and cranking, assembling etc, in accordance with the drawings and wiring with and including No. 16 SWG annealed iron binding wire and hoisting and lowering and fixing in position</u>	460	kg		
C	8mm diameter bars for stirrups	300	kg		
D	Conforce mesh No.257 fabric reinforcement with 150mm side and end laps including all necessary tying wire and distance blocks (measured net no allowance made for laps)	676	m ²		
	Formwork				
E	Formwork to edges of floor bed height exceeding 100mm but not exceeding 200mm	184	m		
	Sundries				
G	500 gauge polythene damp proof membrane laid on blinded hardcore with 150mm side and end laps with approved adhesive tape both side (no allowance made for laps)	676	m ²		
	To Collection			K	-

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUBSTRUCTURE (All Provisional)</u>				
	<u>BLOCKWORK</u>				
	<u>Precast Concrete Hollow Block Type 'A' (5N/mm2) filled solid with Grade C10 plain Insitu Concrete bedded in cement and sand (1:4) mortar</u>				
A	200mm thick walls (average 5 courses max)	280	m ²		
	150mm thick walls	24	m ²		
	<u>Brickforce laid horizontally every third course as described</u>				
B	200mm wide (no allowance made for laps)	560	m		
C	Forming 20mm wide cavity in hollow walls and concrete floor bed, filled with flexel or other equal and approved cavity filler	20	m ²		
	<u>Floor and Wall Finishings</u>				
	<u>In-situ finishing - externally</u>				
	<u>12mm cement and sand (1:4) plaster with wood float finish as described on:</u>				
D	Concrete block walls and edges of floor bed	185	m ²		
	<u>PAINTING AND DECORATING</u>				
E	Prepare and apply three coats of black bituminous paint as described on plastered walls	185	m ²		
	To Collection			K	-
	<u>COLLECTION</u>				
	Page No 3/1				-
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	Page No 3/3				-
	Page No 3/4				-
	<u>SUBSTRUCTURE - TOTAL</u>				
	<u>CARRIED TO SUMMARY</u>			K	-

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUPERSTRUCTURE</u>				
	<u>CONCRETE WORK</u>				
	<u>Reinforced in-situ concrete Grade C25 as described</u>				
A	100mm thick worktop to receive granite finish (measured separately)	5	m ³	-	-
B	Ring beam and lintel	11	m ³	-	-
	<u>High yield round bar reinforcement as described including all cutting bending, hooking and cranking, assembling etc, in accordance with the drawings and wiring with and including No. 16 SWG annealed iron binding wire and hoisting and lowering and fixing in position for ring beam</u>				
D	Y12mm diameter bars	1,015	kg		
E	8mm diameter bars	576	kg		
	<u>Sawn formwork to reinforced in-situ concrete as described</u>				
F	Sides and soffits of ring beam and lintols	100	m ²		
G	Soffits of concrete worktops	25	m ²		
H	To edges of concrete worktop not exceeding 100mm high	15	m		
	<u>CONCRETE WORK - TOTAL</u>				
	<u>CARRIED TO SUMMARY</u>			K	-

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>BLOCKWORK</u>				
	<u>Precast concrete hollow block Type 'A' (3.5N/mm²) as described bedded in cement and sand (1:4) mortar</u>				
A	200mm thick wall	484	m ²		
B	100mm thick wall	725	m ²		
	<u>Expansion Joints</u>				
C	Forming 20mm wide expansion joint for concrete blockwork	66	m ²		
D	20 x 20mm mastic pointing to vertical and horizontal ends of 20mm wide expansion joint	32	m		
E	20mm thick flexcel material or other equal and approved joint filler in concrete blockwork walls	66	m ²		
	<u>Damp Proof Courses</u>				
	<u>Three ply bituminous felt damp proof course as described bedded and pointed in cement and sand mortar (1:4) lapped 75mm in the running length and the full width at angles</u>				
F	150mm wide (Measured Net)	160	m		
G	200mm wide (Measured Net)	210	m		
	<u>Sundries</u>				
	<u>Brickforce laid horizontally every third course as described</u>				
H	150mm wide (Measured Net)	800	m		
I	200mm wide (Measured Net)	1,050	m		
	<u>BRICKWORK AND BLOCKWORK</u>				
	<u>TOTAL CARRIED TO SUMMARY</u>			K	-

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
ROOFING					
<u>0.5mm chromadek IT4 corrugated galvanised steel roofing sheets with approved end and side lapping fixed in accordance with manufacturers recommendations as described</u>					
A	Roofing sheets fixed to Square tubes (measured separately) with self tapping screws of required quantities 792m2 (Materials available on site 1336m.sq)		m ²		-
B	Galvanised iron ridge capping required quantities 64m (Materials available on site 84m)		m		-
C	Galvanised iron sheet flashing 450mm girth bent twice and tucked into wall above roof sheets required quantities of 36m. Materials available on site 84m (2.0m)		m		-
D	Galvanised iron valleys required total quantities of 50m (Materials available 28m)	22	m		
E	Galvanised iron hips	25	m		
ROOFING - TOTAL CARRIED TO SUMMARY					-
CARPENTRY, JOINERY AND IRONMONGERY					
CARPENTRY					
<u>Hospital Doors</u>					
<u>Supply, deliver and install Timber doors preferably hard wood, coupled with steel fabricated door frames.</u>					
A	Door D1 (800mm) supply and install door and door frame. Door frames to be refabricated to fit 800mm doors from 900mm for the 19Nr Door frames available on site to meet this specification	19	Nr		
B	Door D2 (900mm) supply and installation with a door frame currently available on site are 12Nr. Door frames	12	Nr		
C	Double Swing Door D3 (1800) complete with a door frame at the wards entrances	8	Nr		
D	Double Door D4 (1800) complete with a door frame at the Hospital main exits	2	Nr		
E	Door D4 (800mm) supply and install door and door frame. Door frames to be refabricated to fit 800mm doors from 900mm for the 4Nr Door frames available on site to meet this specification	4	Nr		
F	Double Door D5 (1000mm) complete with a door frame - For persons with disability WC	2	Nr		
G	Dutch Door D6 (900mm) mounted in half frame at reception	1	Nr		

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	CARPENTRY CONT'D				
H	Three levers "DORMA" mortice lock complete with Chromium plated lever furniture with short shaft and handles, fixed to flush doors	45	Nr		
I	<u>Rates for locks are to include for providing each lock with a pair of keys. Each key is to have an approved plastic or metal tag with the name of the room or other necessary identification indelibly printed thereon and attached to the key with a split steel ring</u>				
	To Collection			K	-
	Joinery				
	<u>Bulletin board of approved manufacture comprising cork-filled polymer elastomer composite board or other equally approved, including hardwood frame, fixed appropriately to walls as described (Provisional)</u>				
A	White bulletin board size 1240 x 1240mm	2	Nr		
	Sundries				
A	Soap Dispenser Unit of approved model	20	Nr		
B	Toilet roll holders, fixed to walls	12	Nr		
C	38mm diameter rubber door stop plugged and screwed to concrete floor	20	Nr		
	To Collection			K	-
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	COLLECTION				
	Page No 3/8				-
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	<u>CARPENTRY, JOINERY AND IRONMONGERY</u>				
	<u>TOTAL CARRIED TO SUMMARY</u>			K	-

METAL WORK			
Standard Units			
Window Frames			
<u>All windows shall have opening and fixed sections fitted with standard pattern burglar bars welded to window frames including aluminium flyscreens</u>			
<u>Supply and fix steel fabricated window frames couples with clear glass including all window accessories.</u>			
A	Window W1 with clear glass	25	Nr
B	Window W2 with clear glass	13	Nr
C	Window W3 with clear glass	12	Nr
D	Dispensery Hatch H-2	1	Nr
E	One-Way Hatch H-1	2	Nr
To Collection			K
METAL WORK - TOTAL			
CARRIED TO SUMMARY			K

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<u>STEEL FABRICATION AND INSTALLATION WORK</u>					
<u>Framed Steel Work</u>					
<u>Preambles</u>					
i)	All steel to be Grade 43				
ii)	Steel shall be prefabricated in sections by an approved steel fabricator				
iii)	All welds to be 6mm minimum fillet welds unless otherwise specified				
<u>The following members in Steel Trusses, shop primed before delivery including bolting, hoisting, jointing and welding in position</u>					
A	60 x 60 x 5mm x 4.57kg/m equal angle bar of required total quantity 4232kg. Quantities available on site 758kg	3474	kg		
B	150 x 50 x 20 x 2mm x 4.32kg/m C-channel in purlins of required total quantity 2592kg replaced with materials on site 100x40x2.5mm rectangular tubes of total quantity 4302.72kg		kg		
C	100x2.5mm diameter Circular hollow Section (Materials on site 8No 2.5mmx6m)	2	m		
D	100x100x4mm Square hollow Section of required 100m replaced with Material on site 40x40x2.5mmx4.32kg/m square tubes of total quantity 7483.97kg)		m		
E	25mm thick cement and sand (1:3) Grouting	25	m ²		
<u>STEEL FABRICATION AND INSTALLATION WORK - TOTAL CARRIED TO SUMMARY</u>				K	-
<u>PLUMBING INSTALLATION</u>					
<u>Gutters and Drains</u>					
<u>UPVC rain water gutter fixed to blockwork as shown on drawing</u>					
A	150mm diameter semi circular gutter	44	m		
<u>UPVC rain water down pipe fixed to brick/block work with holder bats, cut and pinned</u>					
B	100mm diameter rain water down pipe	11	m		
C	Extra over 100mm diameter rain water down for horse shoe	4	Nr		

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Gutters and Drains Cont'd</u>				
D	<u>Extra over</u> 100mm diameter rain water down pipe for 100mm diameter PVC grating to inlet	4	Nr		
E	<u>Extra over</u> 100mm diameter rain water down pipe for swan neck	4	Nr		
F	110mm PVC Drain Pipe to catch pit and then to manhole	52	m		
G	Drain grate cover 150 x 150mm from rain water down pipe	4	Nr		
H	Drain grate cover 650 x 650mm for Catch pit	1	Nr		
	To Collection			K	-
	<u>Sanitary Installation</u>				
	<u>UPVC pipes (High Grade), fittings, jointing and fixing as described</u>				
A	110mm diameter vent pipe fixed to blockwork with holder bats, cut and pinned	24	m		
B	Extra over 110mm diameter pipe for bend with bolted 'inspection cover	8	Nr		
C	Extra over 110mm diameter pipe for pan connector and 'joint to W.C outlet	10	Nr		
D	Extra over 110mm diameter pipe for soil bend	10	Nr		
E	Extra over 110mm diameter pipe for Y junction	5	Nr		
F	Extra over 110mm diameter pipe for equal tee with 'inspection cover	5	Nr		
G	<u>Extra over</u> 110mm diameter pipe for gully trap	18	Nr		
H	100mm diameter vent valve to suit 110mm vent pipe	8	Nr		
I	<u>Extra over</u> 100mm diameter sewer pipe for 110mm Roding Eye	4	Nr		

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Sanitary Installation Cont'd				
	<u>UPVC pipes (High Grade), fittings, jointing and fixing as described</u>				
J	32mm diameter waste pipe fixed to blockwork with holder bats,'cut and pinned	40	m		
K	38mm diameter waste pipe ditto	30	m		
L	Extra over 32mm waste pipe for equal tee	5	Nr		
M	<u>Extra over</u> 32mm diameter pipe for bend with inseption eye	5	Nr		
N	Extra over 32mm diameter pipe for plain bend	10	Nr		
O	<u>Extra over</u> 38mm diameter waste pipe for equal tee	4	Nr		
P	<u>Extra over</u> 38 diameter waste pipe for bend with inspection	6	Nr		
Q	Extra over 38 diameter waste pipe for 38mm diameter plain bend	4	Nr		
	<u>Rubber Fittings as described</u>				
R	P' trap, 32mm inlet, 32mm outlet, with 62mm seal and 'jointing and pipes with red lead to waste fitting	10	Nr		
S	P' trap, 38mm inlet, 38mm outlet ditto	6	Nr		
T	P' trap 50mm inlet, outlet	5	Nr		
	To Collection			K	-

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	PLUMBING INSTALLATIONS				
	Sanitary Fittings Cont'd				
	<u>Supply and fix the following sanitary fittings including assembling, forming all joints and connections in accordance with the manufacturer's instructions, building in, cutting, pinning or plugging and screwing to walls/floors making good as described. All items to be approved by the Engineer before installation.</u>				
A	"Vaal" or other equal and approved white sanitary ware vitreous china low level wash down Water Closet suite reference No.V243 to BS3402 comprising V1214 wash down water closet 'with orchid back inlet, concealed bottom outlet at back with vent, "Hibiscus" duct cistern with side supply and over flow, with lid, fitments, push button mechanism, duct flush pipe,with side supply and over flow; 5328 Armitheene water waste preventing "freeflo" plastic syphon fitting with 13mm side supply ball valve, 19mm side overflow, flush bend, 811 simple inlet connection and concealed seat and cover. plugged and screwed to wall and floor.	12	Nr		
B	"Vaal" or other equal and approved white sanitary ware vitreous china ceramic fire clay Wash Hand Basin "Cameo" product code: 7028 overall size 595 x 455mm, oval self rimming vanity basin with three semi punched tap holes and chainstay hole through the center complete with overflow, complete with 19mm chromium plated wash hand basin laboratory mixer, including concealed cast iron brackets plugged and screwed to wall. complete with pedestal	26	Nr		
C	Provision for Sluice as Armitage shanks ref 3710000 in white glazed fire day complete with bottle and bed pan with lever and etc, including two 13mm mounted mixer with lever operation, sluiced, nozzle anti splash outlet, 38mm strainer waste with 65 unslotted tail, 38mm plastic vertical waste pipe; 610mm x 455mm drawer with SS leg including aluminium alloy screw to wall bearer	2	Nr		
D	Stainless steel "Franke" single bowl single drain Kitchen Sink complete with 1Nr. Chromium plated single lever sink mixer with a pull-out spray swived spout, "Hansgrohe" brand type 14877-000-800, 38mm waste, plug and chain, the whole mounted and fixed to the wall and floor	4	Nr		

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<u>PLUMBING INSTALLATIONS</u>					
<u>Sanitary Fittings Cont'd</u>					
A	900 x 900mm vitreous China shower tray complete with shower riser, rose and shower 'mixer the whole mounted to wall	5			
B	"Franke" or other equal and approved 100 x 100mm stainless steel flush mounted floor drains to concrete slab with 50mm 'outlet	10	Nr		
C	Heavy Duty Stainless steel sink unit, minimum 1.2 mm (16 gauge) thick, single bowl with radiused corners and seamless construction, complete with satin finish, integral backsplash (min. 150 mm high), and mounted on a stainless steel frame with legs. Sink to include removable stainless steel strainer waste outlet, compatible with standard lab/medical waste fittings, and provision for hands-free tap installation (elbow/knee/sensor type). Suitable for use in lab, laundry and scrub room environments	3	Nr		
	To Collection			K	-
<u>Hot and Cold Water Installation</u>					
<u>Polypropylene Random Copolymer (PPR) Pipes including 'fittings, jointing and fixing as described</u>					
D	15mm diameter pipe fixed to blockwork with holder bats, cut and pinned	150	m		
E	20mm diameter pipe fixed to blockwork with holder bats, cut and 'pinned	100	m		
F	25mm diameter pipe fixed to blockwork with holder bats, cut and 'pinned	70	m		
<u>Extra over Polypropylene Random Copohymer (PPR) pipes for the following fittings</u>					
G	15mm bend	50	Nr		
H	20mm bend	30	Nr		
I	25mm bend	20	Nr		

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PLUMBING INSTALLATIONS</u>				
	<u>Hot and cold water installation Cont'd</u>				
J	25x15mm reducing bend <u>Extra over Polypropylene Random Copolymer (PPR) pipes for the following fittings</u>	20	Nr		
K	25mm equal tees	15	Nr		
L	25x25x15mm reducing tees <u>Steel Braided Connectors</u>	15	Nr		
M	15mm diameter steel braided connector 450mm long, bend as required with one end jointed to PPR pipe, cistern or taps	20	Nr		
N	20mm diameter steel braided connector 450mm long, bend as required with one end jointed to PPR pipe, cistern or taps <u>Solar heater "FRANKE" or other equal and 'approved as described</u>	10	Nr		
O	100 litres solar water heater geyser wall mounted 25mm inlet, outlet and overflow fitted with a safety valve, vaccum breaker non return valve and drain <u>Supply and fix the following valves obtained from approved 'manufacturers, including jointing to pipes as described</u>	4	Nr		
P	15mm chromium plated angle valves	20	Nr		
Q	20mm chromium plated angle valves	10	Nr		
R	25mm PPR Leso ball valves	6	Nr		
	To Collection			K	-

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<u>PLUMBING INSTALLATIONS</u>					
<u>General</u>					
A	Allow for testing the complete plumbing installation as described		item		
B	Allow for sterilisation of all pipe work and storage vessels asdescribed		item		
<u>Builders work in connection with plumbing installation</u>					
C	Hole through 100mm thick reinforced concrete slab for large pipe and make good	5	Nr		
D	Hole through 100mm thick concrete blockwork wall for large pipe and make good	3	Nr		
E	Hole through 100mm thick concrete blockwork wall for small 'pipe and make good	40	Nr		
	To Collection			K	-
<u>COLLECTION</u>					
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	Page No 3/16				
<u>PLUMBING INSTALLATION - TOTAL</u>				K	-
<u>CARRIED TO SUMMARY</u>					

ELECTRICAL AND MECHANICAL INSTALLATION**Preambles**

The contractor is deemed to have included in his rates for the following:-

- (i) Cutting or forming holes, chases and other general building work required including making good finishings and other works disturbed.*
- (ii) Constant supervision by a supervisor possessing approved qualifications.*
- (iii) Protection of installation until handed over, for taking requisite precautions to protect workmen and the public from electric shock or burns.*
- (iv) Comply with all necessary bye-laws and rules with which the installations shall be required to comply*
- (v) Allow for bonding all roofs, water pipes, waste pipes sinks etc.*
- (viii) All services are to be sub-contracted to specialised service providers as per relevant National Council for construction category.*

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELECTRICAL AND MECHANICAL INSTALLATION Cont'd				
	<u>Supply, install, test and commission complete 50kVA transformer power supply system for mini system including transformer, poles, protection equipment, cabling, earthing and all associated works to supply power to the mini hospital</u>	1	Nr		
	<u>Distribution Boards</u>				
	<u>Supply,install and connect all conduits, conduit fittings, cables, cable connections and chiselling from Meter Box to Distribution Board</u>				
A	Flush mounted Main Distribution Board -1 (MDB-1) labelled 32 ways TP & N free standing comprising: 1Nr 150A MCCB TP & N (incoming) 1Nr 125A TP MCCB 1Nr 63A TP MCB 1Nr 50A TP MCB 1Nr 40A TP MCB 1Nr 30A SP MCB 14Nr 20 A SP MCB 9Nr 10A SP MCB 2Nr spares Earth bar Neutral bar 350A Three phase copper busbar Inspection box 4m² Earth matt made out of 16mm² earth copper cable 16mm diameter 2.4m Long copper earth rod 3mm diameter Class I SPD 3nr TP surge arrestor Conduits, fittings, lugs, glands, consumables Chiselling/ Wall works	1 1 1 1 1 1 1 14 9 2 1 1 1 1 1 1 3 1 1	Nr Nr Nr Nr Nr Nr Nr Nr Nr Nr Nr Nr Nr Nr Nr Nr Nr Nr		
	To Collection			K	-
	<u>Lighting Installation</u>				
	<u>Supply, install and connect all conduits, conduit fittings cables and cable connection from Distribution Boards to supply points, connected conduit installations, switches and light fittings (measured separately)</u>				
A	Single ceiling mounted light point on one gang one way switch	30	Nr		
B	Single ceiling mounted light point on one gang one way by-pass switch	6	Nr		
C	Single high ceiling mounted light point on one gang two way switch	8	Nr		

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Lighting Installation Cont'd</u>				
D	Single ceiling mounted light point on two gang two way switch	10	Nr		
E	Single wall mounted light point on two gang one way switch	8	Nr		
F	Single wall mounted light point on photo cell switch	6	Nr		
	<u>Supply, install and connect the following light fittings in accordance with manufacturers instructions, "Eurolux" range or other equal and approved</u>				
G	600 x 600mm LED recessed panel light fitting complete with 4No. 42W 600mm LED tubes and glass cover, fitting 230V, single phase, 50Hz with all required accessories	15	Nr		
H	1200mm x 2No. 36W LED surface mounted light fitting complete with 18W 1200mm LED tubes, aluminium reflector and glass cover, fitting 230V, single phase, 50Hz with all required accessories	15	Nr		
I	9W LED moisture proof and anti fog LED recessed down light fitting complete with Philips driver - IP41 and all required accesories	20	Nr		
J	12W, ceiling mounted LED slip pannel downlight fitting 230V, single phase, 50Hz complete with all required accesories	15	Nr		
K	22W, wall mounted LED surface bulkhead light fitting 230V, single phase, 50Hz complete with all required accesories	10	Nr		
	<u>Flush mounted MK or other equal and approved light switches</u>				
L	10A, 250V, 50Hz single phase one gang, one way switch	35	Nr		
M	10A, 250V, 50Hz single phase one gang, two way switch	10	Nr		
N	10A, 250V, 50Hz single phase two gang, one way switch	8	Nr		
O	10A, 250V, 50Hz single phase two gang, two way switch	10	Nr		
P	10A, 250V, 50Hz single phase one gang, intermidiate switch	6	Nr		

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Lighting Installation Cont'd				
Q	20A Double Pole Hand dryer switch with neon light indicator	12	Nr		
R	20A Water heater isolator switch	8	Nr		
S	10 Amp, photocell, 230V, single phase, 50Hz	6	Nr		
	<u>Supply, install and set to work the following power points 'including all conduits, conduit fittings, cables and cable 'connections to connect the power point to the distribution 'board, 'LEGRAND' Range or other equal and approved</u>				
T	Wall mounted power point 450mm above floor finish level	40	Nr		
U	Wall mounted power point 1100mm above floor finish level	20	Nr		
	<u>Flush mounted Legrand Range or other equal and approved socket outlets</u>				
V	13Amp double socket outlet, complete with steel metal box	20	Nr		
W	45A cooker control unit with neon light indicator, complete with steel metal box	2	Nr		
X	20A AC Double Pole Socket	6	Nr		
	To Collection			K	-
	Extraction fans				
	<u>Supply, Install and set to work the following extractor fans including all switches, conduit, conduit fittings, cables, cable connections connect the fans to the Distribution Boards as 'described as "XPELAIR" range or other equal and approved</u>				
A	Wall mounted Axial fan with a rating of 403.2m³/h; 0.085KW 230V, single phase, 50Hz as shown on drawing	10	Nr		
	Wire mesh cable tray				
	<u>Supply and Installation of Power and Communication Medium Duty Wire Mesh Cable trays complete with risers, end caps, tees and unions mounted on P8000 fire resistance wiring anchored on threaded rods, bolted to the steel members complete with earthed joint</u>				
B	3mm thick 114mm wide x 38mm high wire mesh cable tray	150	m		
C	Internal and external elbows	20	Nr		
D	4-ways crossover Junction	5	Nr		
E	Tee	8	Nr		
	General				
F	Allow for all necessary earthing and bonding as described		item		
G	Allow for testing of the electrical installations as required		item		
	To Collection			K	-
	COLLECTION				
	Page No 3/18			K	-
	Page No 3/20			K	-
	Page No 3/21			K	-

<u>ELECTRICAL AND MECHANICAL INSTALLATION - TOTAL CARRIED TO SUMMARY</u>						K	-
<u>FLOOR, WALL AND CEILING FINISHINGS</u>							
<u>Cement and sand (1:3) screed with steel trowel finish as described</u>							
A	40mm thick floor screed laid level on concrete floors	605	m ²				
B	20mm thick screed skirting not exceeding 100mm high	370	m				
<u>a smooth finish should be applied to concrete counter tops, and work tops</u>							
To Collection						K	-

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>FLOOR, WALL AND CEILING FINISHINGS Cont'd</u>				
	<u>19mm cement and sand (1:4) plaster with wood floated finish externally as described on:</u>				
A	Blockwork walls	410.0	m ²		
B	To returns and reveals, girth not exceeding 100mm	136	m		
	<u>12mm cement and sand (1:4) plaster with steel trowel finish internally as described on:</u>				
C	Blockwork walls	2,000	m ²		
D	To returns and reveals, girth not exceeding 100mm	100	m ²		
	<u>PVC Ceiling (Provisional)</u>				
	<u>Suspended PVC ceiling, 25mm wide white panels symmetrical layout, laying position to 1500x1500mm aluminium grid system on standard hangers to lipped channels</u>				
E	Panels	676	m ²		
F	Edge trim (cornice) (Provisional)	300	m		
	To Collection			K	-
	<u>COLLECTION</u>				
	Page No 3/21			K	-
	Page No 3/22			K	-
	<u>FLOOR, WALL AND CEILING FINISHES</u>				
	<u>TOTAL CARRIED TO SUMMARY</u>			K	-

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>GLAZING</u>				
	<u>Mirrors</u>				
	<u>BS152 clear float, SG silvered and protected with copper backing, undercoat paint and stoved enamel 6mm thick polished, fixing to walls with chromium plated, domical covers, rubber sleeves and washers</u>				
A	6mm thick polished size 600 x 600mm fixed to walls with chromium plastered domical covers, rubber sleeves	26	Nr		
	<u>5mm clear sheet glass and glazing to metal frames with putty</u>				
B	To metal in panes exceeding 0.10 square metres and not exceeding 0.50 square meters	5	m ²		
C	To metal in panes exceeding 0.50m square meters	50.24	m ²		
	<u>GLAZING - TOTAL CARRIED TO SUMMARY</u>			K	-
	<u>PAINTING AND DECORATIONS</u>				
	<u>Prepare and apply one undercoat and two coats of plascon washable PVA matt paint as described and to manufacturer's specifications to the following surfaces externally</u>				
A	To plastered walls	410	m ²		
B	To returns and reveals, girth not exceeding 100mm	136	m ²		
	<u>Prepare and apply two coats of plascon washable PVA matt paint as described to the following surfaces internally</u>				
C	To plastered walls	2,000	m ²		
D	To returns and reveals, girth not exceeding 100mm	100	m		
	<u>Touch up manufacturer's primer and apply one undercoat and two hard gloss finishing coats as described</u>				

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PAINTING AND DECORATIONS Cont'd</u>				
F	Window and door frames surfaces	250	m ²		
G	Metal surfaces of tubes	225	m		
	<u>PAINTING AND DECORATIONS - TOTAL CARRIED TO SUMMARY</u>			K	-
	<u>EXTERNAL WORKS</u>				
	<u>SEPTIC TANK AND SOAKAWAY</u>				
A	Site clearing	18.3	m ²		
B	Excavation of pits for septic tank (8.2x1.5x2.2m) and soakaway (3x2x2.7m)	43.26	m ³		
C	Apply termidant ant poison concentrated to all excavation surfaces	44	m ²		
	<u>FOUNDATION CONCRETE</u>				
D	Place vibrated mass concrete footing 150mm thick (mix 1:2:4) in both for the septic tank and soakaway	1.6	m ³		
	<u>BLOCKWORK IN FOUNDATION SLAB TO 2.2m HEIGHT</u>				
E	200mm solid block walls in foundation area (mortar mix 1:4)	44	m ²		
F	Approved brickforce reinforcement to suit 200mm every course	213.4	m		
G	Formwork to edges of surfaces beds not exceeding 200mm	9.45	m2		
H	Allow for 50x100mm softwood struts to shutter boards	12	Nr		
	<u>REINFORCEMENT</u>				
I	Conforce mesh wire 386 for footing	19.4	m		
	<u>CONCRETE COVER</u>				
J	610x457mm Concrete manhole cover	0.05	m3		
K	Plaster to internal walls	44	m2		

CLINIC BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	CONCRETE COVER Cont'd				
L	Importation of boulders for the soakaway of minimum size 1500mm	9.72	m ³		
	SUNDRIES				
M	Allow for all manholes, benching and manhole covers	3	Nr		
N	Allow for all PVC waste water pipes and connections	3.9	m		
	EXTERNAL WORKS TOTAL CARRIED TO SUMMARY			K	-
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUMMARY		PAGE		
	SUBSTRUCTURE		3/4	K	-
	CONCRETE WORK		3/5	K	-
	BLOCKWORK AND BRICKWORK		3/6	K	-
	ROOFING		3/7	K	-
	CARPENTRY, JOINERY AND IRONMONGERY		3/9	K	-
	METAL WORK		3/9	K	-
	STEEL FABRICATION AND INSTALLATION WORK		3/10	K	-
	PLUMBING INSTALLATION		3/17	K	-
	ELECTRICAL INSTALLATION		3/21	K	-
	FLOOR AND WALL FINISHINGS		3/22	K	-
	GLAZING		3/23	K	-
	PAINTING AND DECORATING		3/24	K	-
	EXTERNAL WORKS		3/24	K	-
	TOTAL CARRIED TO GENERAL SUMMARY			K	-