

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	GENERAL PRELIMINARIES				
1.0	<u>Site</u> The proposed Works will be located at , in Kwale County.				
2.0	<u>Scope of the works.</u> <u>The works involve construction of Dispensary at</u> The major work to be carried out in this contract include the following: 1. Excavation & Earthworks including fillings 2. Waterproofing. 3. Concrete works 4. Reinforcement 5. Formwork. 6. Walling. 7. Roofing. 8. Doors 9. Windows 10. Fittings. 11. Finishes. 12. Electrical works. 13. Plumbing & internal drainage 14. External soil drainage.				
3.0	<u>SIGN BOARD</u> Allow for providing, erecting ,maintaining throughout the course of the contract and afterwards clearing away a signboard as designed,specified and approved by the Project Manager.				
4.0	<u>Temporary building.</u> The Contractor must provide for a temporary building required for the storage of materials and clear it away on completion of the works to the satisfaction of the client.				
	<u>TOTAL PRELIMINARIES CARRIED TO SUMMARY</u>				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>SUB-STRUCTURES (ALL PROVISIONAL)</u>				
1.0	Clear site of grass, shrubs and small trees and dispose	SM	280		
2.0	Excavate to remove vegetable topsoil average 150mm and remove from site	SM	280		
	<u>Excavation</u>				
3.0	Excavate for foundation trenches commencing from reduced levels and not exceeding 1.5 meters deep.	CM	60		
4.0	Ditto in column bases	CM	100		
5.0	Extra over normal excavation for rock class 'A'	CM	5		
	<u>MASS EXCAVATIONS AND FILLINGS</u>				
6.0	Mass excavation; excavate in bulk approximately 2m deep to level site and dispose off site as directed.	CM	400		
7.0	Return fill in and ram selected excavated material in foundations	CM	57		
8.0	Load wheel and cart away surplus excavated material from site	CM	110		
	<u>Filling</u>				
9.0	300mm thick approved hardcore:laid and compacted in 100mm layers: well-watered	SM	180		
10.0	50mm thick approved murram blinding to surface of hardcore	SM	180		
11.0	500 gauge approved damp proof membrane :laid with laps as instructed	SM	180		
12.0	Treat surface of hardcore with approved insecticide to the Manufacturers instruction	SM	180		
13.0	Allow for keeping excavations free from loose/ falling material (Planking & Strutting)	ITEM	1		
14.0	Allow for keeping excavations free from surface water	ITEM	1		
	<u>Concrete works</u>				
15.0	50mm thick mass concrete 1:4:8 blinding	SM	66		
16.0	V.R.C 1:2:4 in foundations/columns	CM	15		
17.0	150mm thick concrete 1:2:4 in floor bed	SM	180		
	CARRIED FORWARD				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>Formwork</u>				
1.0	Sawn formwork as described to edges of floor slab girth 150 - 225mm	LM	90		
	<u>3-ply black bituminous felt damp proof course: laid with laps as instructed:</u>				
2.0	200mm wide	LM	60		
3.0	200mm thick machine coral stone foundation walling in cement/sand (1:4) mortar reinforced with / including hoop iron in alternate courses: machine cut	SM	150		
	<u>British standards including laps, bends, tying wire and spacer blocks:</u>				
4.0	12mm diameter	KG	300		
5.0	10mm ditto	KG	440		
6.0	One layer No A142 steel fabric mesh reinforcement in floor slab	SM	180		
7.0	600 X 600 X 50mm precast concrete paving slabs laid on and including 50mm consolidated sand bed	SM	80		
	<u>Plinths:</u>				
8.0	15mm cement / sand render to plinths	SM	40		
9.0	Prepare and apply 3 coats black bituminous paint to rendered plinths	SM	40		
	<u>SUBSTRUCTURE CARRIED TO COLLECTION</u>				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>SUPER-STRUCTURE</u>				
	<u>WALLING</u>				
	<u>Machine cut coral stone block walling incement / sand(1:3) mortar reinforced with /including hoop iron in every alternate course:</u>				
1.0	200mm thick: external	SM	160		
2.0	200mm ditto walling: internal	SM	80		
3.0	100mm ditto walling: internal	SM	4		
4.0	Vibrated reinforced concrete (1:2:4): in beams/lintols	CM	5		
	<u>Sawn formwork:</u>				
5.0	to sides of beams	SM	54		
6.0	to soffites of beams over openings	SM	10		
	<u>High tensile square twisted bar reinforcement to British standards: including bends, laps, tying wire and spacer blocks:</u>				
7.0	12mm diameter	KG	300		
8.0	8mm diameter	KG	160		
	<u>Steel Columns</u>				
9.0	100mm x 4mm thick Circular Hollow Section CHS3000mm long fixed with fish tail lugs to concrete floor slab, including cap and shoe plates to receive timber beam (ms)	No	8		
	<u>SUPERSTRUCTURE WORKS CARRIED TO SUMMARY</u>				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>ROOF</u> <u>The following in 20NO roof trusses spanning 7500mm and 1800mm high: all to structural Eng.s details.</u>				
1.0	150 X 50mm tie beams	LM	82		
2.0	150 X 50mm rafters	LM	180		
3.0	150 X 50mm struts/ ties	LM	200		
4.0	75 X 50mm purlins nailed to rafters (m.s)	LM	275		
5.0	100 X 50mm wall plate fixed with and including J-bolts at 1200mm centres	LM	60		
6.0	225 X 25mm fascia / barge boards: wrot cypress	LM	66		
7.0	Knot, prime and stop: prepare and apply one undercoat and two coats gloss oil paint 200 - 300mm	LM	66		
8.0	28 gauge prepainted IT 4 roofing sheets fixed to steel purlins (m.s) in accordance with the Manufacturers instructions: Galsheet or equal and approved	SM	230		
9.0	28 gauge ridge cover	LM	25		
	<u>RAIN WATER DISPOSAL</u>				
10.0	U.P.V.C Plastic gutter fixed with rubber sealed joints fixed to timber with approved U.P.V.C Brackets.	LM	38		
11.0	Extra over for stopped ends with 75mm diameter outlet for 100mm diameter PVC down pipe	NO	2		
12.0	Extra over for 90 degrees bends	NO	4		
13.0	100mm diameter rainwater PVC down pipe fixed with and including PVC clips at 900mm centers, plugged and screwed to wall	LM	6		
14.0	Extra over for swan neck bend	NO	2		
15.0	Extra over for horse shoe bend	NO	2		
	CARRIED FORWARD				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>Painting and Decorations</u> <u>On woodwork</u>				
	<u>Prepare and apply one undercoat and two coats</u> <u>of "CROWN SOLO" or other equal and</u> <u>approved super gloss oil paint to:-</u>				
1.0	Fascia boards; 200 to 300mm girth ;external.	LM	38		
	<u>10,000litres PVC Water storage tank as</u> <u>EXOTANK or equal approved size 2360mm</u> <u>diameter x 2285mm high</u>				
2.0	Supply and fix 10000litres PVC Water tank as before described including all necessary fittings	NO	1		
	ROOF WORK CARRIED TO SUMMARY				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>DOORS</u>				
	<u>Wrot mahogany or equal and approved</u>				
1.0	150 X 50mm once rebated door frame: with one labour	LM	104		
2.0	75 X 25mm architraves	LM	96		
3.0	19mm quadrant	LM	96		
4.0	50mm thick hwd panelled door to architectural details overall size 800 X 2050mm and 600 mm high fanlight	NO	13		
	<u>Fanlight</u>				
	<u>Anodized aluminium louvre frames: screwed totimber and with jambs set to receive glass(m.s)</u>				
5.0	4 - blade carrier	PRS	26		
	<u>6mm louvre glass blades: with edges ground smooth: including fixing to jambs(m.s)</u>				
6.0	450mm long	NO	104		
	<u>Knot prime and stop: prepare and apply one undercoat and two finishing coats gloss oil paint;</u>				
7.0	to general wood surfaces	SM	120		
8.0	to isolated wood surfaces	LM	104		
	<u>Supply and fix the following ironmongery: 'Union' or equal and approved specification:</u>				
9.0	2 - lever mortice lock	NO	13		
10.0	100mm brass butt hinges	PRS	39		
11.0	100mm tower bolt	NO	13		
12.0	rubber door stop: rawl bolted to floor or wall	NO	13		
	<u>DOORS CARRIED TO SUMMARY</u>				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>WINDOWS</u>				
	<u>WROT CEDAR OR EQUAL AND APPROVED</u>				
1.0	150 X 40mm frame / mullion / transomes	LM	172		
2.0	75 X 20mm splayed architrave	LM	172		
3.0	19mm quadrant	LM	172		
4.0	150 X 25mm weather board	LM	25		
	<u>Anodized aluminium louvre frames: screwed totimber and with jambs set to receive glass(m.s)</u>				
5.0	8 - blade carrier	PRS	36		
6.0	4 - blade carrier	PRS	41		
	<u>6mm louvre glass blades: with edges ground smooth: including fixing to jambs(m.s)</u>				
7.0	550mm long	NO	452		
	<u>Curtain rods</u>				
8.0	40mm diameter hardwood rod with rollers finished with approved clear wood varnish supported by timber hooks screwed to wall to Architectural details.	LM	27		
	<u>WINDOWS CARRIED TO SUMMARY</u>				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>FINISHES</u>				
1.0	32mm thick cement / sand (1:3) screed:steel trowelled:to fall to receive ceramic tiles	SM	180		
2.0	100 X 20mm skirting	LM	150		
3.0	Supply and fix 300 x300 mm ceramic tiles fixed with 2mm spacers(m.s)	SM	180		
	<u>Wall Finishes</u>				
4.0	internal	SM	264		
5.0	13mm cement / sand (1:4) key-pointing to walls: external	SM	160		
6.0	cement and sand (1:4) screeding smooth trowelled				
7.0	15 mm thick screeding and 300 x300 mm ceramic tiles fixed with 2mm spacers(m.s) (wet areas)	SM	50		
	<u>Ceiling Finishes</u>				
8.0	12mm thick chipboard ceiling nailed to timber bradering (m.s) in neat V-joints.	SM	180		
9.0	75 X 50mm sawn cypress bradering	SM	360		
10.0	50 X 12mm chipboard cornice	LM	150		
	CARRIED FORWARD				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	BROUGHT FORWARD				
	<u>PAINTING & DECORATING</u>				
	<u>Prepare and apply three coats plastic emulsion paint:</u>				
1.0	to external rendered surfaces	SM	160		
	<u>Prepare and apply three coats plastic emulsion paint:</u>				
2.0	to external rendered surfaces	SM	160		
3.0	to plastered internal surfaces	SM	264		
4.0	to internal chipboard ceiling surfaces	SM	180		
	FINISHES CARRIED TO SUMMARY				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>MECHANICAL WORKS</u>				
	<u>INTERNAL PLUMBING AND DRAINAGE</u>				
	<u>Pipes</u>				
1.0	25mm diameter PPR pipe	LM	12		
2.0	20mm ditto	LM	12		
3.0	15mm ditto	LM	12		
	<u>Extra-over pipe work for:-</u>				
	<u>Tees</u>				
4.0	25mm diameter	NO	6		
5.0	20mm ditto	NO	6		
6.0	15mm ditto	NO	6		
7.0	20 x 20 x 15mm ditto	NO	5		
	<u>Elbows</u>				
8.0	25mm diameter	NO	10		
9.0	20mm ditto	NO	10		
10.0	15mm ditto	NO	10		
	<u>Plugs</u>				
11.0	25mm diameter	NO	5		
	<u>Extra-over pipework for :-</u>				
	<u>Unions</u>				
12.0	25mm diameter	NO	5		
13.0	20mm diameter	NO	5		
14.0	15mm diameter	NO	5		
	<u>Sockets</u>				
15.0	25mm diameter	NO	5		
16.0	20mm diameter	NO	5		
17.0	15mm diameter	NO	4		
	CARRIED FORWARD				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	BROUGHT FORWARD				
	<u>INTERNAL PLUMBING AND DRAINAGE</u>				
	<u>Nipples</u>				
1.0	25mm diameter	NO	5		
2.0	20mm diameter	NO	5		
3.0	15mm diameter	NO	5		
	<u>Brass work and sundries</u>				
	<u>Gate valves</u>				
4.0	25mm diameter	NO	4		
5.0	20mm diameter	NO	4		
	<u>Flexible tubes</u>				
6.0	15mm diameter	NO	3		
	<u>Sanitary fittings</u>				
	<u>Supply, deliver and and the following sanitary fittings complete with all necessary fittings</u>				
	<u>WC suites</u>				
7.0	Tyford or Equivalent White Glazed Ceramic Water Closet suite comprising Pan Heavy duty Plastic Seat & cover ceramic Cistern flush pipe and P or S trap.	No	4		
	<u>Toilet roll holder</u>				
8.0	White semi-recessed toilet roll holder size 150mm x 150mm as "Armitage Shanks"	NO	4		
	<u>Wash hand basins</u>				
9.0	Whisper white cassara wash hand basin size 450mm x 280mm as " Armitage Shanks "	NO	4		
10.0	White plastic 32mm diameter bottle " P" trap	NO	4		
11.0	White plastic 32mm diameter chain waste fitting with plug and chain	NO	4		
12.0	Medium duty chrome plated 15mm diameter pillar taps as" Cobra" No. 211-15	Pairs	4		
	CARRIED FORWARD				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	BROUGHT FORWARD				
	<u>Mirrors</u>				
1.0	Plain mirror size 610mm x 450mm with bevelled edges and dome headed screws as " Impala "	NO	4		
	<u>Shower</u>				
2.0	Shower fitting as Turyfords" Cat No. SF7236CP or any other equal and approved	NO	4		
	<u>Sink</u>				
3.0	Single bowl single drain stainless steel laboratory sink gauge 18 s.w.g size 1000mm x 500mm complete.	NO	2		
	<u>Sluice Unit</u>				
4.0	Supply and fix Sluice unit Comprising of 750x400mm Trough Ceramic worktop in Concealed Brackets and flushing unit complete with Cistern and Typical Circular Drying grill made of 12mm Diameter mild Steel Bars.	NO	1		
	<u>Drain Channel</u>				
5.0	Allow for boxing out floor slab to form a drain channel size 200mm wide x 150mm deep x 3500mm long at the delivery area	Item			
6.0	Supply and lay precast concrete units as cover slabs size 50mm thick x 200mm ² along the drain channel	SM	1		
	<u>WATER RETICULATION (PROVISIONAL)</u>				
7.0	Excavate trench for service pipe average 600mm deep part return fill and ram and remainder cartaway	LM	30		
8.0	40mm diameter PPR pipe laid in trench and jointed	LM	30		
	<u>Extra-over pipe work for:-</u>				
9.0	40mm sockets	NO	5		
10.0	40mm elbows	NO	5		
11.0	40mm equal tees	NO	5		
12.0	40mm union	NO	5		
13.0	40mm plug	NO	2		
14.0	40mm gate valve	NO	1		
	CARRIED FORWARD				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>EXTERNAL SOIL DRAINAGE</u>				
	<u>110mm diameter soil drain pipe</u>				
1.0	Excavate trench for drain pipe average 750mm deep part return fill and ram remainder cart away where directed	LM	24		
2.0	110mm diameter "Golden Brown " PVC pipe	LM	24		
3.0	Make or leave holes in 200mm coral block walling and make good disturbed surfaces	NO	4		
4.0	100mm diameter PVC gulley traps	NO	4		
	<u>Manholes(5No) size 600mm x 600mm wide</u>				
5.0	Excavate pit for manholes not exceeding 1.5m deep,part return and ram and remainder cart away.	CM	5		
6.0	Plain concrete mix 1:3:6 in 150mm surface bed	SM	13		
7.0	Reinforced mix 1:2:4 in cover slab- 100mm thick	SM	13		
	<u>Formwork to:-</u>				
8.0	Soffits of suspended slab	SM	13		
9.0	Edges of slab 75 to 150mm high	LM	43		
10.0	Box out formwork to form opening size 600mm x 450mm	NO	5		
	<u>Reinforcement</u>				
11.0	BRC mesh type A142 in suspended slab	SM	13		
	<u>Benching</u>				
12.0	Plain concrete mix 1:3:6 in benching size 600mm x 450mm x230mm (average) high	NO	5		
	<u>Walling</u>				
13.0	200mm thick natural coral stone walling in cement and sand mortar mix 1:3	SM	20		
	<u>Manhole covers and frames</u>				
14.0	Medium duty cast iron manhole covers and frames size 600mm x 450mm	NO	5		
	<u>Finishes</u>				
15.0	15mm thick cement and sand 1:3 water proof plaster	SM	40		
	CARRIED FORWARD				

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	<u>BROUGHT FORWARD</u>				
	<u>EXTERNAL SOIL DRAINAGE CONTINUED:-</u> <u>SEPTIC TANK SIZE 3600mm long x 1500mm</u> <u>wide x 2400mm deep</u>				
1.0	Excavate pit for septic tank not exceeding 1.5m deep	CM	31		
2.0	Ditto 1.5m but not exceeding 3.0m deep	CM	18		
3.0	Return fill and ram	CM	17		
4.0	Cart away surplus excavated material	CM	32		
5.0	Mass concrete 1:3:6 in surface bed-150mm thick	SM	8		
6.0	<u>Reinforced concrete 1:2:4 in:-</u> 100mm thick suspended slab	SM	8		
7.0	100mm scum baffles	SM	7		
8.0	<u>Formwork to:-</u> Soffits of suspended slab	SM	8		
9.0	Sides of scum baffles	SM	14		
10.0	Edges of suspended slab 75-150mm high	LM	10		
11.0	Box out formwork to form opening size 600mm x 450mm	NO	4		
12.0	<u>Walling</u> 200mm thick natural coral stone walling bedded in cement and sand mortar mix 1:3	SM	30		
13.0	<u>Reinforcement</u> 10mm diameter high yield bars in suspended slab	KG	50		
14.0	12mm diameter high yield bars in beams	KG	40		
15.0	8mm diameter mild steel bars in beams	KG	30		
16.0	BRC mesh type A142 in scum baffles	SM	7		
17.0	<u>Finishes</u> 15mm thick cement and sand mix 1:3 waterproof plaster	SM	72		
18.0	<u>Manhole covers</u> Medium duty cast iron manhole cover and frame	No	4		
	CARRIED FORWARD				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>Soak pit size 1800mm diameter</u>				
1.0	Excavate pit for soak pit not exceeding 1.5m deep	CM	17		
2.0	Ditto 1.5m but not exceeding 3.0m deep	CM	17		
3.0	Ditto 3.0m but not exceeding 4.5m deep	CM	17		
4.0	Ditto 4.5m but not exceeding 6.0m deep	CM	17		
5.0	Return fill and ram	CM	15		
6.0	Cart away surplus excavated material	CM	53		
7.0	Mass concrete 1:3:6 in surface bed-150mm thick	SM	3		
	<u>Reinforced concrete 1:2:4 in:-</u>				
8.0	100mm thick suspended slab	SM	3		
	<u>Formwork to:-</u>				
9.0	Soffits of suspended slab	SM	3		
10.0	Edges of suspended slab 75-150mm high	LM	6		
11.0	Box out formwork to form opening size 600mm x 450mm	NO	1		
	<u>Walling</u>				
12.0	200mm thick natural coral stone walling bedded in cement and sand mortar mix 1:3	SM	36		
	<u>Reinforcement</u>				
13.0	10mm diameter high yield bars in suspended slab	KG	50		
14.0	8mm diameter mild steel bars in beams	KG	30		
	<u>Finishes</u>				
15.0	15mm thick cement and sand mix 1:3 waterproof plaster	SM	36		
	<u>Manhole covers</u>				
16.0	Medium duty cast iron manhole cover and frame	NO	1		
	<u>MECHANICAL WORKS CARRIED TO SUMMARY</u>				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>PLACENTA PIT</u>				
	<u>The following in 1No.Placenta pit size 1200mm diameter x 4000mm deep.</u>				
1.0	Excavate for placenta pit commencing from existing ground level but not exceeding 1.5m deep	CM	2		
2.0	Ditto 1.5m but not exceeding 3.0m deep	CM	2		
3.0	Ditto 3.0m but not exceeding 4.5m deep	CM	1		
4.0	Extra over for excavating in rock	CM	1		
5.0	Return fill and ram	CM	1		
6.0	Cart away surplus excavated material	CM	4		
7.0	Mass concrete 1:3:6 in surface bed-150mm thick	CM	1		
	<u>Reinforced concrete 1:2:4 in:-</u>				
8.0	100mm thick suspended slab	CM	2		
	<u>Formwork to:-</u>				
9.0	Soffits of suspended slab	SM	1		
10.0	Edges of suspended slab 75-150mm high	LM	4		
11.0	Box out formwork to form rebated opening size 300mm x 300mm	NO	1		
	<u>Walling</u>				
12.0	200mm thick natural coral stone walling bedded in cement and sand mortar mix 1:3	SM	3		
	<u>Reinforcement</u>				
13.0	12mm diameter high yield bars in suspended slab	KG	18		
14.0	8mm diameter mild steel bars in beams	KG	18		
	<u>Finishes</u>				
15.0	15mm thick cement and sand mix 1:3 waterproof plaster	SM	3		
	<u>Manhole covers</u>				
16.0	300 x 300mm light duty lockable iron manhole cover and frame as before described and bedding frame in cement and sand mortar (1:3)	No	1		
	<u>PLACENTA PIT CARRIED TO SUMMARY</u>				

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	<u>FITTINGS</u>				
	<u>Concrete Worktops</u>				
1.0	concrete in 100mm thick worktop on 100mm thick machine cut coral block walling,including insitu mass concrete benching,100mm high,top finished in porcelain tile 600 x 600mm wide on cement and sand screed,and walling finished in cement and sand plaster and painting to Architects approval,overall size 1450mm long,600mm wide and 900mm high.(Nurse Station)	No	1		
	<u>Shelving</u>				
2.0	Shelving size 3000mm long x 450mm deep comprising 2No. horizontal divisions at 600mm C/C complete with all bearer plugs and painting	No	2		
	<u>FITTING CARRIED TO SUMMARY</u>				

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	<u>ELECTRICAL INSTALLATIONS</u> <u>MODERN DISPENSARY</u> <u>Supply,install,test and commission the following:-</u> <u>LIGHTING POINTS</u> Lighting points wired with 3 x 1.5mm ² single core PVC copper cables drawn in concealed 20mm diameter HG PVC conduit clipped to roof members with all the necessary accessories excluding the switches and lamps for:-				
1.0	a) One way switching	No	16		
	b) Two way switching	No	3		
	<u>SWITCHES</u> 10Amps,moulded plate flush mounted switches with screw covers,as CLIPSAL,BG or approved equivalent being:-				
	i) 1 gang 1 way	No	2		
2.0	ii) 2 gang 1 way	No	3		
3.0	iii) 1 gang 2 way	No	4		
	iv) 2 gang 2 way	No	8		
4.0	<u>LIGHTING FITTINGS</u> Lighting fittings complete with ES lamps and all other necessary accessories:-				
5.0	i) 50W LED sport light for security lighting as phillips or aprooved equivalent	No	4		
6.0	ii) 1200, 1 x 36 Watts batten flourescent fitting as FITZGERALD, THORN or approved equivalent.	No.	12		
7.0	iii) Spherical down lighter 200mm 2D as phillips or aprooved equivalent	No	2		
	CARRIED FORWARD				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	BROUGHT FORWARD				
	<u>ELECTRICAL INSTALLATIONS CONTINUED</u>				
1.0	ELECTRIC SWEEP FANS FOR ROOMS				
	i) Ceiling fan point wired with 3 x 1.5mm ² SC - CU cables drawn in pvc conduits and to include all accessories but excluding the fan	No.	6		
2.0	ii) 240V-AC ceiling fan complete with 5 speed regulator as ORIENT - DE LUXE or an approved equivalent.	No.	6		
	<u>POWER POINTS</u>				
3.0	of 3 x 2.5mm ² single core PVC copper cables	No	7		
4.0	ii) 13Amps moulded plate switched socket outlet with neon indicator as BG,CLIPSAL or approved equivalent being twin.	No	7		
5.0	Water heater points comprising of 3 x 4.0mm ² PVC copper cables drawn in concealed 25mm diameter HG PVC conduits from DB 'B' to double pole switches.	NO	1		
6.0	20Amps double pole switches with neon indicator and marked water heater as CLIPSAL or approved equivalent for Item 2.07 above	NO	1		
7.0	Instant shower with two regulator switch for warm and hot	NO	1		
	<u>CONSUMER UNIT</u>				
8.0	8Ways ,100Amps , Flush mounted consumer unit complete with 100Amps. Integral SPN isolator with hinged cover as MEM,CRABTREE or approved equivalent being:-	No	1		
9.0	<u>Mcbs for item above being:-</u>				
	a)10Amps,SP	No	3		
	b)20Amps,SP	No	2		
	c)30Amps,SP	No	2		
	e) blanking plates	No	1		
	CARRIED FORWARD				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	BROUGHT FORWARD				
	<u>ELECTRICAL INSTALLATIONS</u> <u>CONTINUED</u>				
	Supply,install,test and commission the following:-				
	<u>SUB-MAIN CIRCUIT</u>				
1.0	Circuit comprising 3 x 10mm ² SC PVCI copper cables drawn in concealed 32mm diameter HG PVC conduits from meter box to consumer unit	lm	30		
	<u>METER BOX</u>				
2.0	Single tariff metre box made from gauge 14 galvanized steel sheets complete with bonding screws/bolt and viewing glass	No	1		
3.0	a)Cut out complete with SPN 80A HRC fuse	No	1		
4.0	Electrical Earthing comprising 6.0mm ² Single core copper cables drawn in H/G Conduits 1500mm by 15mm diameter copper electrode complete with clamp and pre - cast concrete inspection pit with cover	Item	1		
	<u>FIRE EXTINGUISHER</u>				
5.0	Dry chemical powder type fire extinguisher of 2kgs. Capacity, with initial filling in brand new cylinder with powder coated finish, fitted with Gun metal union, high pressure CO ₂ gas cartridge, discharge hose, wall mounting bracket e.t.c complete	NO	3		
6.0	9 Lts water gas fire extinguisher. Capacity, with initial filling in brand	NO	3		
	<u>POWER SUPPLY</u>				
7.0	Allow ksh.twenty thousand for liaison and attendance to kplc	Item	1		
8.0	Allow ksh. Three hundred thousand for kplc connection	Item	1		
	<u>TOTAL ELECTRICAL WORKS CARRIED TO COLLECTION</u>				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>CONSTRUCTION OF TANK BASE</u>				
	<u>The following in 1No.Tank platform(Base),3500mm diameter x 400mm high</u>				
1.0	Excavate oversite average 150mm deep,wheel and deposit on site as directed.	SM	10		
2.0	Excavate for foundation trench not exceeding 1.5m from the ground level	CM	10		
3.0	Return,fill and ram well selected excavated material	CM	4		
4.0	Load and cart away surplus excavated materials	CM	5		
5.0	300mm thick hardcore layer compacted in 2 layers and blinded with murram (m.s)	CM	3		
6.0	50mm thick murram blinding.	SM	10		
7.0	50mm thick weak concrete blinding under strip foundations	SM	7		
	<u>Vibrated reinforced concrete (1:2:4) -20mm aggregate</u>				
8.0	200mm thick foundation concrete	CM	1		
9.0	150mm thick floor surface bed	SM	10		
	<u>Steel Reinforcement</u>				
	<u>Steel bars cut and bent as required including short joining lengths, binding wire and spacer blocks</u>				
10.0	Y8 longitudinal bars in strip footings	KG	13		
11.0	Y10 cross (main) bars in strip foundation footing	KG	22		
	<u>Sawn softwood formwork to:-</u>				
12.0	Sides of floor bed 150mm to 225mm high	LM	11		
	<u>Solid coral block walling in cement sand mortar (1:4)</u>				
13.0	200mm thick machine cut coral block walling	SM	4		
14.0	12mm cement sand (1:4) render trowelled smooth	SM	4		
	CARRIED FORWARD				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>Platform finishes</u>				
1.0	25mm thick cement sand plaster to sides and top of platform	SM	12		
	<u>Water pump cage</u>				
2.0	Lockable steel cage measuring 500mm x 500mm x 550mm including a padlock	NO	1.0		
	<u>BRASS BIB TAPS AS "PEGLAR" OR ANY OTHER APPROVED</u>				
3.0	19mm Diameter	NO	1		
	<u>CONSTRUCTION OF TANK BASE CARRIED TO SUMMARY</u>				

**BILLS OF QUANTITIES FOR PRPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>COLLECTIONS</u>				
1.0	SUBSTRUCTURE WORKS				
2.0	SUPERSTRUCTURE WORKS				
3.0	ROOF WORKS				
4.0	DOORS				
5.0	WINDOWS				
6.0	FINISHES				
7.0	MECHANICAL WORKS				
8.0	PLACENTA PIT				
9.0	FITTINGS				
10.0	ELECTRICAL WORKS				
11.0	TANK BASE				
	CARRIED TO SUMMERY				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>STAND MEASURING 1200mm WIDE x 1500mm High</u>				
	<u>The following in 1No. Masonry signage stand:-</u>				
	<u>Site Preparation</u>				
1.0	Clear site of shrubs,grass,small trees girth not exceeding 600mm and grub roots and remove from site as directed.	SM	4		
2.0	Excavate oversite average 150mm deep to remove top vegetable soil and spread on site as directed	SM	4		
3.0	Excavate trenches for wall foundation commencing from reduced level but not exceeding 1.5m deep.	CM	1		
4.0	Extra over all excavations for excavating in rock	CM	0.5		
	<u>Disposal of excavated materials</u>				
5.0	Backfill and compact selected excavated materials	CM	0.5		
6.0	Remove surplus excavated materials from site	CM	0.5		
	<u>Disposal of water</u>				
7.0	Keep trenches free from general water	ITEM			
	<u>Planking and strutting</u>				
8.0	Allow for all necessary earthwork support to sides of foundation trenches	ITEM			
	<u>In situ Plain Concrete mix 1:3:6 in:</u>				
9.0	200mm thick strip foundations	CM	1		
	<u>Machine cut natural blocks bedded in cement sand mortar (1:4) including hoop iron in every alternate course</u>				
10.0	200mm walls	SM	3		
11.0	600 x 300 x 75mm PCC coping to top of wall	LM	2		
	<u>12mm cement sand (1:4) render:Steel trowelled on concrete or stonework to</u>				
12.0	Blockwork	SM	4		
	CARRIED TO COLLECTION				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>Painting and decoration</u>				
1.0	Prepare and apply one undercoat and two finishing coats first quality soft white plastic emulsion paint ditto.	SM	4		
2.0	Allow for drawing the County logo and text reading "KWALE COUNTY GOVERNMENT" and the name of the DISPENSARY and the distance from the main road on both sides of the signage stand	ITEM			
3.0	Allow for drawing the County logo and the text reading " KWALE COUNTY GOVERNMENT" and the name of the DISPENSARY on both sides of the rendered and painted gable wall	ITEM			
	CARRIED TO COLLECTION				
	collections				
	From page 25				
	From Page 26				
	<u>TOTAL CARRIED TO SUMMARY</u>				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BILLS OF QUANTITIES FOR PROPOSED DOOR VIP LATRINE BLOCK WITH URINAL</u>				
	<u>SUBSTRUCTURE</u>				
	<u>Site clearance</u>				
1.0	Clear site of shrubs,grass,small trees girth not exceeding 600mm and grub roots and remove from site as directed.	SM	47		
	<u>Excavations and earth works</u>				
2.0	Excavate vegetable soil,shrubs and undergrowth grub there roots and burn the uprising.	SM	34		
3.0	Excavate for strip foundation starting from strip level depth not exceeding 1.5m deep.	CM	17		
4.0	Excavation to pit latrine 1500mmx3500mm wide depth not exceeding 1.5m deep.	CM	8		
5.0	Ditto but from 1.5m but not exceeding 3.0m deep.	CM	8		
6.0	Ditto but from 3.0m but not exceeding 4.5m deep.	CM	8		
7.0	Ditto but from 4.5m but not exceeding 6.0m deep.	CM	8		
8.0	Return fill and rum selected excavated material.	CM	3		
9.0	Cart away surplus excavated material.	CM	25		
	<u>Planking and strutting</u>				
10.0	Allow for plunking and strutting	ITEM	1		
	<u>Disposal of water</u>				
11.0	Allow for keeping excavations free from water.	ITEM	1		
	<u>Fillings</u>				
12.0	Approved hardcore fill 300mm thick ,well watered and compacted to receive murrum blinding(m.s)	SM	7		
13.0	Approved murra blinding 50mm thick murrum blinding.	SM	7		
14.0	Gladiator T.C.L anti-termite or any other equal and approved chemical anti-termite treatment to sub soil or filling	SM	7		
	<u>CARRIED FORWARD</u>				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>Insitu Plain Concrete mix 1:3:6 in:</u>				
1.0	50mm thick concrete blinding under strip foundation	SM	20		
2.0	50mm thick concrete blinding under pit lining strip foundations	SM	20		
	<u>Insitu vibrated reinforced concrete mix 1:2:4 in</u>				
3.0	200mm thick strip foundations	CM	3		
4.0	200mm thick under pit lining strip foundations	CM	3		
5.0	200mm x 200mm thick in floor beams	CM	1		
6.0	150mm thick in suspended floor beds	SM	19		
	<u>High yield square twisted reinforcement including cutting to lengths, bending, twisting and fixing, including all necessary tying wires and spacing blocks to B.S. 4461:-</u>				
7.0	8mm longitudinal bars in strip foundation	KG	25		
8.0	10mm cross(main) bars ditto	KG	40		
9.0	8mm longitudinal bars in strip foundation for pit lining	KG	25		
10.0	10mm cross(main) bars ditto	KG	40		
11.0	12mm bars as main bars in suspended floors and beams	KG	185		
12.0	10mm bars as main bars in suspended floors	KG	74		
	<u>Mild steel reinforcement to BS 4449</u>				
13.0	8mm diameter bars as links to floor beams	KG	25		
	<u>Mesh fabric reinforcement to BS 4483: Square mesh reference A142: weighing 2.22kilogrammes per square metre</u>				
14.0	In beds 200mm laps	SM	7		
	<u>CARRIED FORWARD</u>				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>Formwork to:</u>				
9.0	Vertical sides of strip foundations	SM	8		
10.0	Vertical sides of strip foundations for pit lining	SM	8		
11.0	Soffits and sides of floor beams and slabs exceeding 3.0m high	SM	13		
12.0	Vertical edges of beds over 75mm but not exceeding 150mm wide.	LM	27		
	<u>Machine cut natural coral blocks bedded in cement sand mortar (1:4) including hoop iron in every alternate course</u>				
13.0	200mm walls	SM	70		
14.0	Ditto 200mm walls in pit lining	SM	83		
	<u>Bituminous felt damp proof courses bedded in cement sand mortar (1:4) :300mm laps:-</u>				
15.0	200mm wide horizontal	LM	29		
	<u>12mm cement sand (1:4) render:Steel trowelled on concrete or stonework to</u>				
16.0	Plinths	SM	9		
	<u>Prepare and apply two coats bituminous paint on render to:-</u>				
17.0	Plinth	SM	9		
	<u>SUBSTRUCTURE WORKS CARRIED TO SUMMARY</u>				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>VIBRATED REINFORCED SUPERSTRUCTURE</u>				
	<u>In situ vibrated reinforced concrete mix 1:2:4 grade 20 as described in :-</u>				
1.0	Beams	CM	1		
	<u>High yield square twisted reinforcement including cutting to lengths, bending, twisting and fixing, including all necessary tying wires and spacing blocks to B.S. 4461:-</u>				
2.0	12mm bars in beams	KG	73		
	<u>Mild steel reinforcement to BS 4449</u>				
3.0	8mm diameter bars in beams	KG	18		
	<u>Formwork Sawn softwood formwork to in-situ concrete as described:-</u>				
4.0	Vertical sides and soffits of beams	SM	7		
	<u>WALLING SUPERSTRUCTURE</u>				
	<u>Machine cut walling</u>				
5.0	200mm thick machine cut coral block walling bedded and jointed in cement and sand mortar mix 1:3 with 20mm wide hoop iron reinforcement at every alternate course	SM	52		
6.0	150mm thick precast concrete permanent vent	SM	1		
	<u>SUPERSTRUCTURE WORKS CARRIED TO SUMMARY</u>				

BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>ROOFING</u>				
	<u>The following in second grade celcured cypress and all the necessary for assembling and hoisting to position as per roofing details.</u>				
1.0	100x50mm rafters.	LM	15		
2.0	75x50mm Purlins.	LM	21		
	<u>ROOF COVERING</u>				
3.0	28gauge Pre-painted blue box profile roof covering nailed to Timber Purlins	SM	21		
	<u>Eaves filling</u>				
4.0	200mm thick machine cut coral block eaves and	LM	18		
	<u>WROT CYPRESS</u>				
5.0	150x25mm fascia and bardge board	LM	20		
	<u>Knot, prime,Stop and Prepare and apply three coats white brilliant gloss oil paint on:-</u>				
6.0	Timber surfaces over 200 mm but not exceeding 300mm girth	LM	20		
	<u>ROOFING</u>				

BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>DOORS</u>				
	<u>The following in wrot graded cedar</u>				
1.0	100mm x 50mm frame with one labour and fixed to block wall with fish tailed metal (m.s)	LM	15		
	<u>Shutter</u>				
2.0	45mm thick (finished) hardwood framed, ledged,braced and battened door comprising of 95 x 20mm (finished) braces,ledges and tongued and grooved matchboarding, V-jointed on one side and let flush on the other	NO	3		
	<u>Ironmongry</u>				
	<u>Supply and fix the following ironmongery with screws to match.</u>				
3.0	100mm brass butt hinges with matching screws.	NO	9		
4.0	screwed to 50mm timber frame while the other end fixed to block wall	NO	9		
5.0	300mm long steel aldrop(Pad bolt)	NO	3		
6.0	150mm Brass tower bolt	NO	3		
	<u>PAINT WORK</u>				
	<u>Prepare and apply 3 coats of first grade clear wood varnish</u>				
7.0	Surfaccess not exceeding 300mm	LM	15		
8.0	General surfaces	SM	11		
	<u>DOORS</u>				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>FINISHES</u>				
	<u>Floor finishes</u>				
1.0	40mm thick Cement Sand (1:4) and screed	SM	16		
2.0	Ditto,in 100mm high skirting ,with painted top, d	LM	13		
	<u>Painting and decoration</u>				
3.0	Prepare and apply one undercoat and two finishing coats of interior quality black gloss oil paint to ditto	LM	13		
	<u>EXTERNAL WALL FINISHES</u>				
	<u>External walls</u>				
4.0	Extra over dressed stone walling for neat recessed horizontal key in cement mortar (1:3)	SM	28		
5.0	12mm thick cement,sand render,with wood float finish	SM	2		
6.0	Ditto rendered concrete surfaces	SM	4		
	<u>Painting and decoration</u>				
	<u>Prepare and apply one undercoat and two finishing coats of exterior quality plastic cream emulsion paint on :-</u>				
7.0	Rendered wall surfaces	SM	2		
8.0	Rendered concrete surfaces	SM	4		
	<u>INTERNAL WALL FINISHES</u>				
	<u>Internal walls</u>				
9.0	12mm thick cement,sand and lime plaster,with steel trowelled finish.	SM	59		
	<u>Painting and decoration</u>				
10.0	Prepare and apply one undercoat and two finishing coats first quality soft white plastic emulsion paint ditto.	SM	59		
	<u>CARRIED FORWARD</u>				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
1.0	Prepare and apply one finishing coat first quality gloss cream paint to wall skirting.	SM	30		
	<u>Wall tiles</u>				
2.0	3 courses of ceramic wall tiles to internal urinal wall surfaces	SM	2		
	<u>Copping stone</u>				
3.0	Mass concrete coping stone mix (1:3) twice weathered and throated on top of screen wall	LM	6		
	<u>MISCELLEANOUS</u>				
4.0	U.P.V.C golden brown vent pipe 100mm diameter	LM	6		
5.0	U.P.V.C ballon guard(vent cap) 100mm diameter	LM	2		
6.0	50mm diameter PVC floor trap	NO	1		
	<u>FINISHES CARRIED FORWARD</u>				

BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>ECDE 3-DOOR VIP LATRINE & URINAL BLOCK</u>				
1.0	SUBSTRUCTURE WORKS				
2.0	SUPERSTRUCTURE WORKS				
3.0	ROOFING				
4.0	DOORS				
5.0	FINISHES				
	CARRIED TO MAIN SUMMARY				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF A DISPENSARY KWALE COUNTY
GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>MAIN SUMMARY</u>				
1.0	PRELIMINARIES				
2.0	DISPENSARY				
3.0	DIRECTIONAL SIGNAGE				
4.0	3 DOOR TOILET				
	<u>TOTAL 1</u>				
	ADD.				
	16% V.A.T				
	<u>TOTAL CARRIED TO FORM OF TENDER</u>				
	SIGNATURE AND STAMP OF TENDERER				
	DATE				
	NAME AND ADDRESS				
	TENDERER'S WITNESS SIGNATURE				
	DATE				
	NAME AND ADDRESS				