

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF MATERNITY WING AT
DISPENSARIES KWALE COUNTY GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>GENERAL PRELIMINARIES</u>				
1.0	<u>Site</u> The proposed Works will be located at				
2.0	<u>Scope of the works.</u> <u>The works involve construction of a Maternity</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. 15. Electrical installations				
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 STRUCTURE</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>SUBSTRUCTURE</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	143		
2.0	Excavate oversite average 150mm deep to remove top vegetable soil and spread on site as directed	SM	143		
3.0	Excavate trenches for wall foundation commencing from reduced level but not exceeding 1.5m deep.	CM	39		
4.0	Extra over all excavations for excavating in rock	CM	2		
	<u>Disposal of excavated materials</u>				
5.0	Backfill and compact selected excavated materials	CM	22		
6.0	Remove surplus excavated materials from site	CM	17		
	<u>Disposal of water</u>				
7.0	Keep trenches free from general water	Item	1		
	<u>Planking and strutting</u>				
8.0	Allow for all necessary earthwork support to sides of foundation trenches	Item	1		
	<u>Hardcore fillings</u>				
9.0	300mm thick approved handpacked hardcore filling spread, levelled and compacted in 150mm layers.	CM	27		
	<u>Anti - termite treatment</u>				
10.0	Gladiator T.C.L or any other equal and approved chemical anti-termite treatment to sub soil or filling	SM	143		
	CARRIED FORWARD				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>Damp proof membrane</u>				
1.0	500 gauge polythene sheeting in damp proof membrane over murrum blinding (measured seperately)	SM	143		
	<u>Quarry dust/murrum blinding</u>				
2.0	50mm thick fillings as blinding to hardcore levelled and compacted	SM	89		
	<u>Insitu Plain Concrete mix 1:3:6 in:</u>				
3.0	50mm thick concrete blinding under strip foundations	SM	32		
	<u>Insitu vibrated reinforced concrete mix 1:2:4 in</u>				
4.0	200mm thick strip foundations	CM	6		
5.0	300mm thick in ground beam	CM	3		
6.0	150mm thick floor beds	SM	97		
	<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	67		
8.0	10mm cross(main) bars ditto	KG	122		
9.0	10mm bars in ground beams	KG	140		
	<u>Mild steel reinforcement to BS 4449</u>				
10.0	8mm diameter bars in ground beam	KG	135		
	<u>CARRIED FORWARD</u>				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>Mesh fabric reinforcement to BS 4483: Square mesh reference A142:weighing 2.22kilogrammes per square metre</u>				
1.0	In bebs 200mm laps	SM	97		
	<u>Formwork to:</u>				
2.0	Vertical sides of strip foundations	SM	22		
3.0	Vertical sides of ground beam	SM	32		
4.0	Vertical edges of beds over 75mm but not exceeding 150mm wide.	LM	42		
	<u>Machine cut natural stones beded in cement sand mortar (1:4) including hoop iron in every alternate course</u>				
5.0	200mm walls	SM	65		
	<u>Bituminous felt damp proof courses bedded in cement sand mortar (1:4) :300mm laps:-</u>				
6.0	200mm wide horizontal	LM	88		
	<u>12mm cement sand (1:4) render:Steel trowelled on concrete or stonework to</u>				
7.0	Plinths	SM	13		
	<u>Prepare and apply two coats bituminous paint on render to:-</u>				
8.0	Plinth	SM	13		
	<u>CARRIED FORWARD</u>				

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	<u>BROUGHT FORWARD</u>				
	<u>Paving slabs</u>				
1.0	Excavate trenches for wall foundation commencing from reduced level but not exceeding 0.6m deep.	CM	14		
2.0	Backfill and compact selected excavated materials to trench	CM	4		
3.0	Remove surplus excavated materials from site	CM	10		
4.0	Filling with well selected material and compacted in two layers to receive paving slab	CM	10		
	<u>Quarry dust/murram blinding</u>				
5.0	50mm thick fillings as blinding to hardcore levelled and compacted	SM	46		
6.0	150mm thick mass concrete mix 1:3:6 in strip foundation	CM	7		
7.0	150mm thick Hand cut natural stones bedded in cement sand mortar (1:4)	SM	23		
8.0	Precast concrete (1:2:4) in paving slabs size 600 x 600 x 50mm thick laid on consolidated sand bed jointed in cement sand mortar	SM	24		
	<u>TOTAL CARRIED TO SUMMARY</u>				
	<u>SUBSTRUCTURE WORKS</u>				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>SUPERSTRUCTURE WORKS</u>				
	<u>In situ vibrated reinforced concrete mix 1:2:4 grade 20 as described in :-</u>				
1.0	Beams	CM	5		
	<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	10mm bars in beams	KG	228		
	<u>Mild steel reinforcement to BS 4449</u>				
3.0	8mm diameter bars in beams	KG	219		
	<u>Formwork</u>				
	<u>Sawn softwood formwork to in-situ concrete as described:-</u>				
4.0	Vertical sides and soffites of beams	SM	65		
	<u>WALLING SUPERSTRUCTURE</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	197		
	<u>TOTAL CARRIED TO SUMMARY SUPERSTRUCTURE WORKS</u>				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>ROOFING</u> <u>The following in 11No. second grade celcured cypress timber trusses spanning 6800mm and 1200mm high</u>				
1.0	100 x 50mm kingpost	LM	20		
2.0	100x50mm rafters.	LM	95		
3.0	100 x 50mm struts and ties	LM	66		
4.0	100X50mm tie Beams	LM	90		
5.0	75x50mm Purlins.	LM	148		
	<u>ROOF COVERING</u>				
6.0	28 gauge prepainted IT 4 roofing sheets fixed to steel purlins (m.s) in accordance with the Manufacturers instructions: Galsheet or equaland approved	SM	126.1		
7.0	Extra over roofing in translucent sheet in matching profile	SM	5		
8.0	Matching ridge caps	LM	15		
	<u>WROT CYPRESS</u>				
9.0	225x25mm fascia and bardge board	LM	47		
	<u>RAIN WATER DISPOSAL</u> <u>Rain water goods</u>				
10.0	Supply and fix 150mm Diameter Half Round U.P.V.C Plastic gutter fixed with rubber sealed joints fixed to timber with approved U.P.V.C Brackets.	LM	22.4		
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		
	CARRIED FORWARD				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
1.0	100mm diameter rainwater PVC down pipe fixed with and including PVC clips at 900mm centers,plugged and screwed to wall	LM	6		
2.0	Extra over for swan neck bend	NO	2		
3.0	Extra over for horse shoe bend	NO	2		
	<u>Painting and Decorations</u>				
	<u>On woodwork</u>				
	<u>Prepare and apply one undercoat and two coats of "CROWN SOLO" or other equal and approved supper gloss oil paint to:-</u>				
4.0	Fascia boards; 200 to 300mm girth ;external.	LM	47		
	<u>TOTAL CARRIED TO SUMMARY ROOFING WORKS</u>				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>DOORS</u>				
	<u>The following in wrot graded cedar</u>				
1.0	150mm x 50mm frame with one labour and fixed to block wall with fish tailed metal (m.s)	LM	94		
2.0	25mm x 25mm moulded camphor architrave to Architect approval	LM	94		
3.0	15mm x 15mm ditto quadrant ditto	LM	94		
	<u>Panel door shutters</u>				
	<u>50mm thick panel door comprising: 125 x 50mm rebated stiles: 150 x 50mm top and middle rails:200 x 50mm bottom rail:4No. Solid timber panels size 300 x 350mm:6No. Solid timber panels size 300 x 250mm</u>				
4.0	Double leaf door size 1500mm wide x 2100mm high overall (D1)	NO	2		
5.0	Single leaf door size 900mm wide x 2100mm high overall (D2)	NO	4		
6.0	Single leaf door size 800mm wide x 2100mm high overall (D3)	NO	3		
	<u>Ironmongry</u>				
	<u>Supply and fix the following ironmongery with screws to match.</u>				
7.0	3-lever rebated union mortice locks complete with furniture.	NO	2		
8.0	3-lever union mortice locks complete with ditto.	NO	7		
9.0	150mm brass butt hinges.	NO	12		
10.0	100mm brass butt hinges.	NO	10.5		
11.0	15mm diameter rubber door stop	NO	11		
	CARRIED FORWARD				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>Fanlight</u>				
	<u>N.A.C.O or Any other Equal and Approved Anadonised Aluminium Louvre jambs with blade carriers for 150mm wide louvres.</u>				
1.0	Set for 4 No blade carriers	Pairs	30		
2.0	150mm x 50mm x 300mm long trasome	LM	14		
3.0	150mm x 50mm x 300mm long mullion	LM	5		
4.0	20mm x 20mm stop	LM	14		
5.0	150x5mm thick clear glass louvres fixed to Louvre Frames above doors.	LM	61		
	<u>FANLIGHTS</u>				
6.0	16mm diameter mild steel burglar proof bars in plastic sheath fixed to window frames.	LM	61		
7.0	Labour for drilling 16mm diameter holes through 50 mm thick hardwood	NO	176		
	<u>Knot,prime,stop,prepare and apply three coats polyurethane varnish to:-</u>				
8.0	Door general surfaces	SM	58		
9.0	Ditto to frames exceeding 100mm but not exceeding 200mm girth	LM	113		
10.0	Prime back of timber frame girth exceedind 100mm but not exceeding 200mm,before fixing in position	LM	94		
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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>WINDOWS FRAMES.</u> <u>The following in wrot graded cedar</u>				
1.0	150x50mm frame primed before fixing.	LM	70		
2.0	Ditto mullions ditto.	LM	12		
3.0	Ditto transome ditto.	LM	6		
4.0	20mm x 20mm stop.	LM	15		
	<u>Supply and fix anadonised aluminium louvre jamb with 150mm wide blade carriers</u>				
5.0	Set for 8 No. blade carriers.	Pairs	10		
6.0	Set for 5 No blade carriers	Pairs	15		
7.0	Set for 2 No. blade carriers.	Pairs	10		
	<u>Glazing.</u>				
8.0	150X5mm glass panes with ground edges set loose in louvre clips.	LM	115		
	<u>Burglar proofing</u>				
9.0	16mm diameter burglar proof bars in plastic sheath fixed in timber frames.	LM	115		
10.0	Labour for drilling 16mm diameter hole through 50mm thick hardwood.	NO	275		
	<u>Painting</u> <u>Knot,prime,stop,prepare and apply three coats polyurethane varnish to:-</u>				
11.0	Frames exceeding 100mm but not exceeding 200mm girth	LM	88		
	<u>Curtain rods</u>				
12.0	40mm diameter hardwood rod with rollers finished with approved clear wood varnish supported by timber hooks screwed to wall to Architectural details.	LM	20		
	<u>TOTAL CARRIED TO SUMMARY WINDOWS</u>				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>FITTINGS</u>				
	<u>Concrete Worktops</u>				
1.0	Construct worktop,comprising insitu reinforced 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>TOTAL CARRIED TO SUMMARY FITTINGS</u>				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>FINISHES</u>				
	<u>Floor finishes</u>				
1.0	40mm thick cement and sand screed bed mix 1:3 with wood float to receive ceramic floor tiles.	SM	97		
2.0	8mm thick non-slip ceramic "SAJ" tiles size 300mm x 300mm laid with 2mm spacers using tile adhesive Type 101 as manufactured by Athi River Mining Ltd,including pointing in matching anti-fungal coloured cement	SM	97		
3.0	Ditto,in 100mm high skirting ,with painted top, ditto	LM	130		
	<u>Wall and Concrete surfaces</u>				
4.0	15mm thick cement and sand plaster(1:4) plaster to internal wall and concrete surfaces finished smooth with steel trowel	SM	324		
5.0	Ditto wood float finish to receive ceramic wall tiles	SM	100		
6.0	Prepare and apply one coat of " Crown " penetrating primer and three finishing coats of CROWN silk vinyl emulsion paint on plastered wall surfaces	SM	224		
7.0	6mm thick ceramic wall tiles size 200mm x 250mm high,laid with 2mm spacers using tile adhesive type 101 as manufactured by Athi River Mining Ltd to plastered wall surfaces as before described	SM	100		
	<u>Ceiling surfaces</u>				
	<u>Sawn Cypress</u>				
8.0	50 x 50mm brandering cut in flush between ceiling joists (tie beams)	LM	356		
9.0	12mm chipboard ceiling lining nailed to brondering (M.S)	SM	97		
10.0	75 x 20mm prime grade softwood moulded cornice plugged	LM	130		
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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
1.0	Extra over for access trap door size 800 x 800mm overall framing all round	NO	1		
2.0	Prepare and apply three coats washable distemper to celotex ceilings and cornica internally	SM	97		
	<u>Exterior Surfaces</u>				
	<u>Wall finishes</u>				
3.0	15mm thick exterior key pointing rendering in cement and sand mortar mix 1:4 finished	SM	136		
	<u>TOTAL CARRIED TO SUMMARY FINISHES</u>				

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	<u>ELECTRICAL INSTALLATIONS</u>				
	<u>MATERNITY WING</u>				
	<u>Supply,install,test and commission the following:-</u>				
1.0	<u>LIGHTING INSTALLATION</u> Lighting points from consumer unit comprising wiring in 3x 1.5 sqmm SC PVC Cu cables in 20mm dia. heavy gauge PVC conduits concealed in concrete slab/ceiling and walls excluding other accessories for;-				
	a) One way switching	No	18		
	b) Two way switching	No	1		
2.0	<u>SWITCHES</u> 10Amps,moulded plate flush mounted switches with screw covers,as CLIPSAL,BG or approved equivalent being:-				
	a) 1 gang 1 way	No	5		
	b)1gang 2way	No	1		
	c) 2 gang 1 way	No	2		
	d) 2 gang 2 way	No	1		
3.0	<u>LIGHTING FITTINGS</u> <u>Lighting fittings complete with lamps and all other necessary accessories:-</u> THORN MTC 1060 or approved equivalent (TYPE 1)				
	b) 50W LED sport light for security lighting as phillips or approved equivalent	No	6		
	c) 1200, 1 x 36 Watts batten flourescent fitting as FITZGERALD, THORN or approved equivalent (TYPE B1)	No	11		
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	<u>BROUGHT FORWARD</u>				
	<u>ELECTRICAL INSTALLATION CONTINUED:-</u>				
1.0	<u>POWER POINTS</u>				
	13Amps Power points wired ring comprising of 3 x 2.5mm sq. single core PVCII copper cables drawn in concealed 25mm HG PVC conduits.	NO	6		
	a) Twin	NO	6		
	Water heater points comprising of 3 x 4.0mm ² PVCII copper cables drawn in concealed 25mm diameter HG PVC conduits from DB 'B' to double pole switches.	NO	1		
	20Amps double pole switches with neon indicator and marked water heater as CLIPSAL or approved equivalent for Item 2.07 above	NO	1		
	45A instant shower with two regulator switch for hot and warm	NO	1		
2.0	<u>POWER SUPPLY</u>				
	Circuit comprising 5 x 16mm ² Armoured copper cables laid underground with marks of hatari tiles from other nearest loop in box to facility's loop in box	LM	30		
3.0	<u>CONSUMER UNIT</u>				
	4Ways ,100Amps , Flush mounted Consumer unit complete with 100Amps. Integral SPN isolator with hinged cover as MEM,CRABTREE or approved equivalent being:-	NO	1		
	a)10Amps,SP	NO	1		
	b)20Amps,SP	NO	1		
	c)30Amps,SP	NO	1		
	e) 30Amps	NO	1		
4.0	<u>SUBMAIN CIRCUIT</u>				
	Circuit comprising 3x6mm SC PVCII copper cables drawn in concealed 32mm diameter HG PVC conduits from LOOPING BOX to consumer unit	LM	15		
	<u>CARRIED FORWARD</u>				

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	<u>BROUGHT FORWARD</u>				
	<u>ELECTRICAL INSTALLATION CONTINUED:-</u>				
	<u>ELECTRIC SWEEP FANS FOR ROOMS</u>				
1.0	a)Ceilling 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	1		
2.0	b)240V-AC ceiling fan complete with 5 speed regulator as c)ORIENT - DE LUXE or an approved	N O	1		
	<u>LOOP IN BOX</u>				
3.0	Fabricated loop in box gauge 16 450x400x150mm steel sheets complete with bonding screws/bolt and cover plate.	NO	1		
4.0	d)Cut out complete with SPN 80A HRC fuse	NO	1		
5.0	e)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>				
6.0	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	2		
7.0	9 Lts water gas fire extinguisher. Capacity, with initial filling in brand	NO	2		
	<u>POWER SUPPLY</u>				
8.0	3x10mm armoured cable trenched in 2x2feet back filled with sand soil and hatari tiles	LM	35		
	<u>TOTAL CARRIED TO SUMMARY</u>				
	<u>ELECTRICAL WORKS</u>				

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<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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	<u>BROUGHT FORWARD</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	Tyfords or Equivalent White Glazed Ceramic Water Closet suite comprising Pan Heavy duty Plastic Seat & cover ceramic Cistern flush pipe and P orS trap.	NO	3		
	<u>Toilet roll holder</u>				
8.0	White semi-recessed toilet roll holder size 150mm x 150mm as "Armitage Shanks"	NO	2		
9.0	Whisper white cassara wash hand basin size 450mm x 280mm as " Armitage Shanks "	NO	2		
10.0	White plastic 32mm diameter bottle " P" trap	NO	2		
11.0	White plastic 32mm diameter chain waste fitting with plug and chain	NO	2		
12.0	Medium duty chrome plated 15mm diameter pillar taps as" Cobra" No. 211-15	Pairs	2		
	<u>CARRIED FORWARD</u>				

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	<u>BROUGHT FORWARD</u>				
	<u>Mirrors</u>				
1.0	Plain mirror size 610mm x 450mm with bevelled edges and dome headed screws as " Impala "	NO	2		
	<u>Shower</u>				
2.0	Shower fitting as Turyfords" Cat No. SF7236CP or any other equal and approved	NO	2		
	<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		
	CARRIED FORWARD				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF MATERNITY WING AT
DISPENSARIES KWALE COUNTY GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>Extra-over pipe work for:-</u>				
1.0	40mm sockets	NO	5		
2.0	40mm elbows	NO	5		
3.0	40mm equal tees	NO	5		
4.0	40mm union	NO	5		
5.0	40mm plug	NO	2		
6.0	40mm gate valve	NO	1		
	<u>TOTAL CARRIED TO SUMMARY</u>				
	<u>INTERNAL PLUMBING WORKS</u>				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF MATERNITY WING AT
DISPENSARIES KWALE COUNTY GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<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		
	CARRIED FORWARD				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF MATERNITY WING AT
DISPENSARIES KWALE COUNTY GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>Manhole covers and frames</u>				
1.0	Medium duty cast iron manhole covers and frames size 600mm x 450mm	NO	5		
2.0	15mm thick cement and sand 1:3 water proof plaster	SM	40		
	<u>SEPTIC TANK SIZE 3600mm long x 1500mm wide x 2400mm deep</u>				
3.0	Excavate pit for septic tank not exceeding 1.5m deep	CM	31		
4.0	Ditto 1.5m but not exceeding 3.0m deep	CM	18		
5.0	Return fill and ram	CM	17		
6.0	Cart away surplus excavated material	CM	32		
7.0	Mass concrete 1:3:6 in surface bed-150mm thick	SM	8		
	<u>Reinforced concrete 1:2:4 in:-</u>				
8.0	100mm thick suspended slab	SM	8		
9.0	100mm scum baffles	SM	7		
	<u>Formwork to:-</u>				
10.0	Soffits of suspended slab	SM	8		
11.0	Sides of scam baffles	SM	14		
12.0	Edges of suspended slab 75-150mm high	LM	10		
13.0	Box out formwork to form opening size 600mm x 450mm	NO	4		
	<u>Walling</u>				
14.0	200mm thick natural coral stone walling bedded in cement and sand mortar mix 1:3	SM	30		
	<u>CARRIED FORWARD</u>				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF MATERNITY WING AT
DISPENSARIES KWALE COUNTY GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>Reinforcement</u>				
1.0	10mm diameter high yield bars in suspended slab	KG	50		
2.0	12mm diameter high yield bars in beams	KG	40		
3.0	8mm diameter mild steel bars in beams	KG	30		
4.0	BRC mesh type A142 in scam baffles	SM	7		
	<u>Finishes</u>				
5.0	15mm thick cement and sand mix 1:3 waterproof plaster	SM	72		
	<u>Manhole covers</u>				
6.0	Medium duty cast iron manhole cover and frame	NO	4		
	<u>Soak pit size 1800mm diameter</u>				
7.0	Excavate pit for soak pit not exceeding 1.5m deep	CM	17		
8.0	Ditto 1.5m but not exceeding 3.0m deep	CM	17		
9.0	Ditto 3.0m but not exceeding 4.5m deep	CM	17		
10.0	Ditto 4.5m but not exceeding 6.0m deep	CM	17		
11.0	Return fill and ram	CM	15		
12.0	Cart away surplus excavated material	CM	53		
13.0	Mass concrete 1:3:6 in surface bed-150mm thick	SM	3		
	<u>Reinforced concrete 1:2:4 in:-</u>				
14.0	100mm thick suspended slab	SM	3		
	<u>CARRIED FORWARD</u>				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF MATERNITY WING AT
DISPENSARIES KWALE COUNTY GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>Formwork to:-</u>				
1.0	Soffits of suspended slab	SM	3		
2.0	Edges of suspended slab 75-150mm high	LM	6		
3.0	Box out formwork to form opening size 600mm x 450mm	NO	1		
	<u>Walling</u>				
4.0	200mm thick natural coral stone walling bedded in cement and sand mortar mix 1:3	SM	36		
	<u>Reinforcement</u>				
5.0	10mm diameter high yield bars in suspended slab	KG	50		
6.0	8mm diameter mild steel bars in beams	KG	30		
	<u>Finishes</u>				
7.0	15mm thick cement and sand mix 1:3 waterproof plaster	SM	36		
	<u>Manhole covers</u>				
8.0	Medium duty cast iron manhole cover and frame	NO	1		
	<u>TOTAL CARRIED TO SUMMARY</u>				
	<u>EXTERNAL PLUMBING WORKS</u>				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF MATERNITY WING AT
DISPENSARIES KWALE COUNTY GOVERNMENT (ALL PROVISIONAL)**

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	SM	1		
	<u>Reinforced concrete 1:2:4 in:-</u>				
8.0	100mm thick suspended slab	SM	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		
	CARRIED FORWARD				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF MATERNITY WING AT
DISPENSARIES KWALE COUNTY GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>Manhole covers</u>				
1.0	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>TOTAL CARRIED TO SUMMARY PLACENTER PIT WORKS</u>				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF MATERNITY WING AT
DISPENSARIES KWALE COUNTY GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>PROPOSED WALKWAY CONNECTING THE DISPENSARY AND MATERNITY WING BLOCKS.</u>				
	<u>SUBSTRUCTURE</u>				
	Site Preparation				
1.0	Clear site of shrubs,grass,small trees girth not exceeding 600mm and grub roots and remove from site as directed.	SM	13		
2.0	Excavate oversite average 150mm deep to remove top vegetable soil and spread on site as directed	SM	13		
3.0	Excavate trenches for wall foundation commencing from reduced level but not exceeding 1.5m deep.	CM	6		
4.0	Extra over all excavations for excavating in rock	CM	1		
	<u>Disposal of excavated materials</u>				
5.0	Backfill and compact selected excavated materials	CM	3		
6.0	Remove surplus excavated materials from site	CM	3		
	<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>Hardcore fillings</u>				
9.0	300mm thick approved handpacked hardcore filling spread, levelled and compacted in 150mm layers.	CM	4		
	CARRIED FORWARD				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF MATERNITY WING AT
DISPENSARIES KWALE COUNTY GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>Anti - termite treatment</u>				
1.0	Gladiator T.C.L or any other equal and approved chemical anti-termite treatment to sub soil or filling	SM	13		
2.0	500 gauge polythene sheeting in damp proof membrane over murrum blinding (measured seperately)	SM	13		
	<u>Quarry dust/murrum blinding</u>				
3.0	50mm thick fillings as blinding to hardcore levelled and compacted	SM	13		
	<u>In situ Plain Concrete mix 1:3:6 in:</u>				
4.0	50mm thick concrete blinding under strip foundations	SM	5		
	<u>In situ vibrated reinforced concrete mix 1:2:4 in</u>				
5.0	200mm thick strip foundations	CM	1		
6.0	150mm thick floor beds	SM	13		
	<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	11		
8.0	10mm cross(main) bars ditto	KG	17		
	<u>Mesh fabric reinforcement to BS 4483 :Square mesh reference A142:weighing 2.22kilogrammes per square metre</u>				
9.0	In bebs 200mm laps	SM	13		
	<u>CARRIED FORWARD</u>				

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DISPENSARIES KWALE COUNTY GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>Formwork to:</u>				
1.0	Vertical sides of strip foundations	SM	4		
2.0	Vertical edges of beds over 75mm but not exceeding 150mm wide.	LM	9		
	<u>Machine cut natural stones bedded in cement sand mortar (1:4) including hoop iron in every alternate course</u>				
3.0	200mm walls	SM	12		
	<u>12mm cement sand (1:4) render:Steel trowelled on concrete or stonework to</u>				
4.0	Plinths	SM	3		
	<u>Prepare and apply two coats bituminous paint on render to:-</u>				
5.0	Plinth	SM	3		
	<u>SUPERSTRUCTURES</u>				
	<u>STEEL COLUMNS</u>				
	<u>Mild steel including grinding all welds smooth and painting with red oxide primer before delivery to site</u>				
6.0	100mm Diameter Circular Hollow Section (C.H.S)mild steel column 3000mm long; one end built into concrete base and the other welded onto mild steel U-shaped holder batts(m.s)	NO	4		
7.0	Extra Over above described for provision and welding of 100 x 75 mm U-shaped holder batt, twice drilled for 12 mm diameter bolt, to top end of CHS column to receive wall plate (m.s)	NO	4		
	<u>CARRIED FORWARD</u>				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF MATERNITY WING AT
DISPENSARIES KWALE COUNTY GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
	<u>ROOFING</u>				
	<u>The following in 3No. second grade celcured cypress timber trusses spanning 3000mm and 1300mm high</u>				
1.0	100 x 50mm kingpost	LM	3		
2.0	100x50mm rafters.	LM	15		
3.0	100x50mm valley rafters.	LM	30		
4.0	100 x 50mm struts and ties	LM	9		
5.0	100X50mm tie Beams	LM	11		
6.0	75x50mm Purlins.	LM	27		
	<u>ROOF COVERING</u>				
7.0	28gauge IT4 Deep profile Roof Covering nailed to Timber Purlins	SM	23		
8.0	Matching ridge caps	LM	5		
	<u>WROT CYPRESS</u>				
9.0	225x25mm fascia and bardge board	LM	5		
	<u>RAIN WATER DISPOSAL</u>				
10.0	Supply and fix 150mm Diameter Half Round U.P.V.C Plastic gutter fixed with rubber sealed joints fixed to timber with approved U.P.V.C Brackets.	LM	9		
11.0	Extra over ditto for closed ends	NO	4		
12.0	Extra over ditto for spigot outlet	NO	4		
	<u>CARRIED FORWARD</u>				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF MATERNITY WING AT
DISPENSARIES KWALE COUNTY GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BROUGHT FORWARD</u>				
1.0	Extra over for corner gutters	NO	4		
2.0	Extra over for 90 degrees bends	NO	4		
3.0	100mm diameter rainwater PVC down pipe fixed with and including PVC clips at 900mm centers, plugged and screwed to wall	LM	9		
	<u>Prepare and apply one undercoat and two coats of "CROWN SOLO" or other equal and approved supper gloss oil paint to:-</u>				
4.0	Fascia boards; 200 to 300mm girth ;external.	LM	9		
	<u>FINISHES</u>				
	<u>Floor finishes</u>				
5.0	40mm thick cement and sand screed bed mix 1:3 with wood float to receive ceramic floor tiles.	SM	13		
6.0	8mm thick non-slip ceramic "SAJ" tiles size 300mm x 300mm laid with 2mm spacers using tile adhesive Type 101 as manufactured by Athi River Mining Ltd, including pointing in matching anti-fungal coloured cement	SM	13		
	<u>TOTAL CARRIED TO SUMMARY</u>				
	<u>WALKWAY WORKS</u>				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF MATERNITY WING AT
DISPENSARIES 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	ROOFING				
4.0	DOORS				
5.0	WINDOWS				
6.0	FITTINGS				
7.0	FINISHES				
8.0	ELECTRICAL INSTALLATIONS				
9.0	INTERNAL PLUMBING				
10.0	EXTERNAL PLUMBING				
11.0	PLACENTER PIT				
12.0	WALK WAYS				
	TOTAL				

**BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF MATERNITY WING AT
DISPENSARIES KWALE COUNTY GOVERNMENT (ALL PROVISIONAL)**

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>SUMMARY</u>				
1.0	Measured works	Sum			
2.0	Preliminaries	Sum			
	<u>Total 1</u>				
	<u>Add</u>				
3.0	Allow a sum of kenya shillings 150,000 for Contingencies				
	<u>Note* Hardship Areas. (where sites are difficult to access) are allowed upto 5% of the contingencies after approval from the project manager and the Quantity surveyor</u>				
	<u>Total 2</u>				
	<u>Add</u>				
4.0	16 % V.A.T				
5.0	GRAND TOTAL				
	SIGNATURE AND STAMP OF TENDERER				
	DATE				
	NAME AND ADDRESS				
	TENDERER'S WITNESS SIGNATURE				
	DATE				
	NAME AND ADDRESS				