



























**CONSTRUCTION OF 2No. MODERNIZED TOILETS**

ITEM	DESCRIPTION	AMOUNT
2.0.18	<p><b>EXISTING PROPERTY.</b> The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the PROJECT MANAGER.</p>	
2.0.19	<p><b>VISIT SITE AND EXAMINE DRAWINGS.</b> The Contractor is recommended to examine the drawings and visit the site the location of which is described in the Particular Preliminaries hereof. He shall be deemed to have acquainted himself therewith as to its nature, position, means of access or any other matter which may affect his tender. No claim arising from his failure to comply with this recommendation will be considered.</p>	
2.0.20	<p><b>ACCESS TO SITE AND TEMPORARY ROADS.</b> Means of access to the Site shall be agreed with the PROJECT MANAGER prior to commencement of the work and Contractor must allow for building any necessary temporary access roads for the transport of the materials, plant and workmen as may be required for the complete execution of the works including the provision of temporary culverts, crossings, bridges, or any other means of gaining access to the Site. Upon completion of the works, the Contractor shall remove such temporary access roads; temporary culverts, bridges, etc., and make good and and reinstate all works and surfaces disturbed to the satisfaction of the "PROJECT MANAGER".</p>	
2.0.21	<p><b>AREA TO BE OCCUPIED BY THE CONTRACTOR</b> The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the "PROJECT MANAGER"</p>	
2.0.22	<p><b>OFFICE ETC. FOR THE PROJECT MANAGER</b> The Contractor shall provide, erect and maintain where directed on site and afterwards dismantle the Site Office of the type noted in the Particular Preliminaries, complete with furniture. He shall also provide a strong metal trunk complete with strong hasp and staple fastening and two keys. He shall provide, erect and maintain a lock-up pedestal type water or bucket closet for the sole use of the PROJECT MANAGER including making temporary connections to the drain where applicable to the satisfaction of Government and Medical Officer of Health and shall provide the services of cleaner and pay all conservancy charges and keep both office and keep both office and closet in a clean and sanitary condition from the commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be completed before the Contractor is permitted to commence the works. The Contractor shall make available on the Site as and when required by they by the PROJECT MANAGER a modern and accurate level together with levelling staff, ranging rods and 50 metre metallic or linen tape.</p>	
<b>CARRIED TO COLLECTION</b>		

CONSTRUCTION OF 2No. MODERNIZED TOILETS

ITEM	DESCRIPTION	AMOUNT
2.0.23	<p><b>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</b></p> <p>The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters as required at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the PROJECT MANAGER. The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements or augmenting this supply at his own cost. Nominated sub-contractors are to be made liable for the cost of any water or electric current used and for any installation provided especially for their own use.</p>	
2.0.24	<p><b>SANITATION OF THE WORKS</b></p> <p>The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities, Labour Department and the PROJECT MANAGER.</p>	
2.0.25	<p><b>SUPERVISION AND WORKING HOURS</b></p> <p>The works shall be executed under the direction and to the entire satisfaction in all respects of the PROJECT MANAGER who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub-Contractors or other places where work is being prepared for the contract. The working hours shall be those generally worked by good employees in the Building and Civil Engineering trades in Kenya .No work shall be carried out at night or on gazzeted holidays unless the PROJECT MANAGER shall direct so. No work shall be covered up nor shall any concreting be carried out in the absence of the Clerk of Works without prior approval of the PROJECT MANAGER in writing.</p>	
2.0.26	<p><b>PROVISIONAL SUMS.</b></p> <p>The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(i) of the Standard Method of Measurement Such sums are net and no addition shall be made to them for profit.</p>	
2.0.27	<p><b>PRIME COST SUMS.</b></p> <p>The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (ii) of the Standard Method of Measurement. Persons or firms nominated by the PROJECT MANAGER to execute some of the works for the Contractor.</p>	
2.0.28	<p><b>DIRECT CONTRACTS</b></p> <p>Notwithstanding the foregoing conditions, the County Government reserves the right to place a "Direct Contract" for any goods or services required in the works which are covered by a P.C. Sum in the Bills of Quantities and to pay for the same direct. In the instances, profit relative to the P.C. Sum the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.</p>	
<b>CARRIED TO COLLECTION</b>		

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ITEM	DESCRIPTION	AMOUNT
2.0.29	<p><b>PROGRESS CHART.</b> The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub- Contractors ; one copy to be handed to the PROJECT MANAGER and a further copy to be retained on Site. Progress to be recorded and chart to be amended as necessary as the work proceeds.</p>	
2.0.30	<p><b>ADJUSTMENT OF P.C. SUMS.</b> In the final account all P.C. Sums shall be deducted and the amount properly expended upon the D.R's order in respect of each of them added to the Contract sum. The Contractor shall produce to the PROJECT MANAGER such quotations, invoices or bills, properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Items of profit upon P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of "attendance" (as previously described) following P.C. Sums shall be adjusted pro-rata to the physical extent of the work executed (not pro-rata to the amount paid) and this shall apply even though the Contractor's priced Bill shows a percentage in the rate column in respect of them. Should the Contractor be permitted to tender and his tender be accepted of any work for which a P.C. Sum is included in these Bill of Quantities profit and attendance will be allowed at the same rate as it would be if the work were executed by a Nominated Sub-Contractor.</p>	
2.0.31	<p><b>ADJUSTMENT OF PROVISIONAL SUMS.</b> In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the PROJECT MANAGER's order added to the Contract Sum. Such work shall be valued as described for Variations in Conditions No. 22 of the Conditions of Contract, but should any part of the work be executed by a Nominated Sub-Contractor, the value of such work or articles for the work to be supplied by a Nominated Supplier, the value of such work or articles shall be treated as a P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.</p>	
2.0.32	<p><b>NOMINATED SUB-CONTRACTORS</b> When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts as described in Condition No. 20 of the Conditions of Contract and shall thereafter be responsible for such sub-contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract Contractor's work concerned in the P.C. Sums under the description "add for Attendance".</p>	
<b>CARRIED TO COLLECTION</b>		

CONSTRUCTION OF 2No. MODERNIZED TOILETS

ITEM	DESCRIPTION	AMOUNT
2.0.33	<p><b>ATTENDANCE UPON OTHER TRADESMEN, ETC.</b></p> <p>The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.</p>	
2.0.34	<p><b>INSURANCE</b></p> <p>The Contractor shall insure as required in Conditions Nos. 22 and 23 of the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER either by production of an Insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clauses have been complied with in all respects. Thereafter the PROJECT MANAGER shall from time to time ascertain that premiums are duly paid up by the Contractor who shall if called upon to do so, produce the receipted premium renewals for the PROJECT MANAGER's inspection.</p>	
2.0.35	<p><b>PROVISIONAL WORK</b></p> <p>All work described as "Provisional" in these Bills of Quantities is subject to re-measurement in order to ascertain the actual quantity executed for which payment will be made. All "Provisional" and other work liable to adjustment under this Contract shall left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the PROJECT MANAGER Immediately the work is ready for measuring, the Contractor shall give notice to the PROJECT MANAGER. If the Contractor makes default in these respects he shall if the PROJECT MANAGER so directs uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.</p>	
2.0.36	<p><b>ALTERATIONS TO BILLS, PRICING, ETC.</b></p> <p>Any unauthorized alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the priced Bills of Quantities. All items of measured work shall be priced in detail and the Tenders containing Lump Sums to cover trades or groups of work must be broken down to show the price of each item before they will be accepted.</p>	
<b>CARRIED TO COLLECTION</b>		



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ITEM	DESCRIPTION	AMOUNT
2.0.37	<p><b>BLASTING OPERATIONS</b></p> <p>Blasting will only be allowed with the express permission of the PROJECT MANAGER in writing. All blasting operations shall be carried out at the Contractor's sole risk and cost in accordance with any Government regulations laid down by the PROJECT MANAGER governing the use and storage of explosives.</p>	
2.0.38	<p><b>MATERIALS ARISING FROM EXCAVATIONS</b></p> <p>Materials of any kind obtained from the excavations shall be the property of the Government. Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used.</p>	
2.0.39	<p><b>PROTECTION OF THE WORKS.</b></p> <p>Provide protection of the whole of the works contained in the Bills of Quantities, including casing , casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the PROJECT MANAGER and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of cost to the Government.</p>	
2.0.40	<p><b>REMOVAL OF RUBBISH ETC.</b></p> <p>Removal of rubbish and debris from the Buildings and site as it accumulates and at the completion of the works and remove all plant, scaffolding and unused materials at completion.</p>	
2.0.41	<p><b>WORKS TO BE DELIVERED UP CLEAN</b></p> <p>Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER.</p>	
<b>CARRIED TO COLLECTION</b>		

CONSTRUCTION OF 2No. MODERNIZED TOILETS

ITEM	DESCRIPTION	AMOUNT
<b>COLLECTION PAGE: PARTICULAR PRELIMINARIES</b>		
1	Balance brought forward from page TOLT/Page8	
2	Balance brought forward from page TOLT/Page9	
3	Balance brought forward from page TOLT/Page10	
4	Balance brought forward from page TOLT/Page11	
5	Balance brought forward from page TOLT/Page12	
6	Balance brought forward from page TOLT/Page13	
7	Balance brought forward from page TOLT/Page14	
8	Balance brought forward from page TOLT/Page15	
9	Balance brought forward from page TOLT/Page16	
<b>TOTAL FOR GENERAL PRELIMINARIES CARRIED TO SUMMARY</b>		

CONSTRUCTION OF 2No. MODERNIZED TOILETS

ITEM	DESCRIPTION	AMOUNT
<b>SUMMARY: PRELIMINARIES</b>		
1	Total for Particular Preliminaries from page TOLT/Page7	
2	Total for General Preliminaries from page TOLT/Page17	
<b>TOTAL FOR PRELIMINARIES CARRIED TO GRAND SUMMARY</b>		

Proposed Construction of 2No Modernized  
Toilets Bill of Quantities

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>1.0.00</b>	<b>ELEMENT 01-SUBSTRUCTURE</b>				
1.1.00	<b>Site clearance</b>				
1.1.01	Clear the site of all bushes, grass, shrubs, undergrowth and small trees not exceeding 600mm girth and burn arising.	SM	14		
1.2.00	<b>Excavation</b> <i>Excavation including maintaining and supporting sides and keeping free from water, mud and falling materials</i>				
1.2.01	For column and bases commencing at reduced level not exceeding 1.50 metres deep.	CM	5		
1.2.02	For strip foundation starting from reduced level not exceeding 1.50 meters deep and cart away as directed	CM	14		
1.3.00	<b>Disposal</b>				
1.3.01	Return, fill-in and rum selected excavated material.	CM	8		
1.3.02	Load and cart away from site surplus excavated material as directed.	CM	11		
1.4.00	<b>Imported Filling</b>				
1.4.01	300mm thick hardcore fill in making up levels, deposit and compacting in layers of 150mm maximum thickness	SM	14		
1.4.02	50mm thick murrum blinding to surfaces of hardcore fill	SM	14		
1.5.00	<b>Damp-proof Membrane</b>				
1.5.01	500 gauge polythene laid on murrum blinding	SM	14		
1.6.00	<b>Anti-termite treatment</b>				
1.6.01	TERMIDOR' or other equal and approved insecticide with a ten-year guarantee to surfaces of fill, etc	SM	17		
1.7.00	<b>Mass concrete class 15/25 (1:3:6)</b>				
1.7.01	50mm thick blinding mass concrete to bottoms of foundations	SM	12		
1.7.02	Ditto to column bases	SM	4		
Total Carried to Collection					

Proposed Construction of 2No Modernized  
ToiletS Bill of Quantities

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.8.00	<b>Concreting</b> <i>Reinforced vibrated insitu concrete: class 20/(20mm)to:-</i>				
1.8.01	Foundation strips	CM	3		
1.8.02	Column bases	CM	1		
1.8.03	Sub columns	CM	2		
1.8.04	200mm thick floor base slab	SM	14		
1.9.00	<b>Reinforcements</b> <i>High yield deformed steel bars; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks</i> <i>-Reinforcements allowed for as 100kgs/CM of concrete</i>				
1.9.01	8mm Diameter bars	Kg	43		
1.9.02	10mm Diameter bars	Kg	28		
1.9.03	12mm Diameter bars	Kg	32		
1.10.00	<b>Steel mesh fabric reinforcement to B.S. 4483</b>				
1.10.01	Reference A142 mesh 200 x 200 mm , weighing not less than 2.22 kgs per square metre ( measured net - no allowance made for laps) including tying wire and distance blocks	SM	14		
1.11.00	<b>Sawn formwork to insitu concrete as described:-</b>				
1.11.01	To sides of strip foundations.	SM	9		
1.11.02	To sides of column bases.	SM	8		
1.11.03	To sides of sub columns.	SM	6		
1.11.04	Edges of ground floor slab; 150 to 225mm high	LM	20		
1.12.00	<b>Foundation walling</b>				
1.12.01	200mm thick natural stone walling bedded and jointed in cement and sand mortar (1:3) with 20gauge; 25mm wide hoop irons in alternate courses cast into concrete one end and built into mortar joints of walling	SM	23		
Total Carried to Collection					

Proposed Construction of 2No Modernized  
ToiletS Bill of Quantities

ITEM	DESCRIPTION	AMOUNT
<u>COLLECTION</u>		
A	Total from pg 1	
B	Total from pg 2	
Total for Substructures Carried to Summary		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>2.0.00</b>	<b>ELEMENT 02-SUPERSTRUCTURE</b>				
2.1.00	<b>Concreting</b> <i>Reinforced vibrated insitu concrete; class 20/(20mm)to:-</i>				
2.1.01	Beams	CM	4		
2.1.02	Columns	CM	2		
2.2.00	<b>Reinforcements</b> <i>High yield deformed steel bars; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks</i> <i>-Reinforcements allowed for as 100kgs/CM of concrete</i>				
2.2.01	12mm Diameter bars	Kg	92		
2.2.02	10mm Diameter bars	Kg	76		
2.2.03	8mm Diameter bars	Kg	108		
2.3.00	<b>Sawn formwork to insitu concrete as described:-</b>				
2.3.01	To sides of columns	SM	5		
2.3.02	To sides and soffits of beams	SM	3		
2.4.00	<b>Supersructure Walling (Natural Stone Walling)</b> <i>Natural stone with a crushing strength of 7.5 N/mm<sup>2</sup>, bedded and jointed in cement and sand mortar (1:3) with 20gauge; 25mm wide hoop irons in alternate courses cast into concrete one end and built into mortar joints of walling;</i>				
2.4.01	200mm thick walling	SM	102		
2.5.00	<b>Paving</b>				
2.5.01	For walkways and areas around toilet excavate over site average 150mm deep to remove vegetable soil, load, wheel, deposit and spread on site where directed. Add 100 mm bed of approved murrum, wellwatered and compacted. Lay precast concrete "(Class 20/20mm)" paving slabs of size 600 x 600 x 50mm thick, finished fair on exposed surfaces, jointed and pointed in cement and sand (1:4) mortar, on 50 mm fine sand blinding. (only paving slabs casted in steel moulds will be accepted)	SM	16		
Total for Superstructures Carried to Summary					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>3.0.00</b>	<b>ELEMENT 03: WINDOWS</b>				
	<i>Wrot Hardwood; camphor, or equal and approved</i>				
3.1.01	150x50mm. Frame plugged	LM	9		
3.1.02	Bore 50 mm in timbers for 16mm.diameter bars	No	8		
3.1.03	16mm.Diameter mild steel horizontal burglar proofing bars cut and fitted into timber frame (ms)	LM	3		
3.1.04	PVC sheething to burglar proofing bars (ms)	LM	3		
<b>3.2.00</b>	<b>Louvres</b>				
	<i>Supply and fix the following adjustable anodized alluminium louvre jambs as "NACO" complete with 150mm clips and fixing:-</i>				
3.2.01	Set of two (2) blade jambs	No	8		
<b>3.3.00</b>	<b>Glazing</b>				
3.3.01	5mm clear glass louvre blade size 150mm wide with ground set in claps	LM	4		
<b>3.4.00</b>	<b>Painting</b>				
	<i>Knot, Prime, Stop and apply three coats of clear varnish on woodwork.</i>				
3.4.01	Surface not exceeding 100mm girth frame externally.	LM	68		
3.4.02	Ditto surfaces 100-200mm girth.	LM	32		
Total for Windows Carried to Summary					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>4.0.00</b>	<b>ELEMENT 04: DOORS</b>				
4.1.01	50mm framed, ledged and braced door size 800 x 2000mm high, consisting of 45 x 130mm stiles, top, rail, middle and bottom rails each with two labours 20 x 150mm braced with panels filled with 25mm tongued, grooved and 'v' jointed match boarding externally including hanging to frame.	No	4		
4.1.02	150 x 50 mm; 2 No. labours; plugged door frame	LM	24		
<b>4.2.00</b>	<b>Ironmongery</b>				
4.2.01	100 mm brass butt hinges	PRS	6		
4.2.02	3 -Lever UNION mortice lock brass plate	No	4		
4.2.03	30mm Diameter plastic door stop	No	4		
<b>4.3.00</b>	<b>Painting and Decorating</b>				
	<u>Aluminium primer or other equal and approved wood primer before fixing: -</u>				
4.3.01	Backs of frame, board, etc over 100mm but not exceeding 200mm girth.	LM	20		
	<u>Prepare and apply three coats polyurethane clear varnish on woodwork internally</u>				
4.3.02	Frames; over 100mm but not exceeding 200mm girth	LM	20		
4.3.03	Frames not exceeding 100mm girth	LM	80		
	<u>Prepare and apply three coats of clear polyurethane lacquer on the following timber woodwork surfaces</u>				
4.3.04	General surfaces of flush and panel doors; over 300mm girth internally	SM	15		
Total for Doors Carried to Summary					

Proposed Construction of 2No Modernized  
Toilets Bill of Quantities

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5.0.00	<b>ELEMENT 05: ROOF CONSTRUCTION AND COVERING</b>				
5.1.00	<b>Carpentry</b> <i>Structural timbers in sawn cypress pressure impregnated as described (Note: Rates for timber in trusses to include all bolted connections, hoop-iron strips, surfed joints and fabricating, hoisting and fixing trusses in position approximately 3,000 mm high above ground level)</i>				
	<u>The following in single pitch trusses of varying spans</u>				
5.1.01	150 x 50mm sawn cypress struts	LM	38		
5.1.02	100 x 50mm wall plate	LM	16		
5.1.03	100 x 75mm sawn cypress purlins	LM	47		
5.2.00	<b>Wrot cypress, prime grade</b>				
5.2.01	200 x 25mm thick fascia board/Verge boards	LM	27		
5.2.02	Prepare,knot,stop apply one undercoat and two finishing coats of external quality suppergloss to general surfaces of wood 200-300mm girth.	LM	27		
5.3.00	<b>Roof Covering</b>				
5.3.01	Galvanized corrugated roofing sheet: 28gauge prepainted; not exceeding 450 from horizontal; fixed to timber structure(m.s) with roofing nails and neoprene washers, J bolts, nuts, caps	SM	30		
5.4.00	<b>Ceiling Finishes</b> <u>Sawn cypress; pressure impregnated as described in:-</u>				
5.4.01	50 x 50mm brandering	LM	43		
5.4.02	50 x 100mm ditto; plugged	LM	32		
	<u>Cypress grade GJ as described in:-</u>				
5.4.03	75 x 75mm cornice with three labours; plugged	LM	60		
	<u>Celotex ceiling boards</u>				
5.4.04	13mm thick nailed to 50 x 50mm timber brandering (m/s), nails punched and puttied; set to pattern to ceilings	SM	30		
5.4.05	Extra; access panels 600 x 600mm, 50 x 50mm softwood framing all round; fixing with chromium plated screws and cup washers	No	2		
Total for Roofing Carried to Summary					

Proposed Construction of 2No Modernized  
Toilets Bill of Quantities

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>6.0.00</b>	<b>ELEMENT 06: SOAK-AWAY PIT</b>				
	<i>The following in 1 No. soak pit; 3000 litres capacity</i>				
6.0.01	Excavate pit in red soil not exceeding 1.50m deep from ground level	CM	22		
6.0.02	Ditto 1.50 - 3.00m deep ditto	CM	22		
6.0.03	Extra over excavation for excavating in rock of any class	Item			
6.0.04	Backfill selected excavated materials around block walling	CM	18		
6.0.05	Level and spread on site excess excavated material	CM	26		
6.0.06	Allow for planking and strutting to uphold sides of excavations	Item			
6.0.07	Allow for keeping excavations free from ground or running water and mud by pumping, bailing or otherwise	Item			
6.1.00	<b>Vibrated reinforced concrete class 20/20mm aggregate</b>				
6.1.01	100mm thick suspended slab including leaving opening size 600 x 450 mm and reinforcing with 10mm diameter bars at 100mm centres	SM	2		
6.2.00	<u>Sawn Formwork to:</u>				
6.2.01	Soffits of suspended slab	SM	2		
6.2.02	Edge of suspended slab 75 - 150mm girth	LM	5		
6.2.03	Form 75 x 50mm rebated in concrete and build in cast iron frame (measured separately) and make good	SM	3		
6.3.00	<u>Solid natural block walling</u>				
6.3.01	200mm thick wall bedded and jointed in cement and sand (1:4) and reinforced with 25mm x 20 gauge hoop iron strapping on every alternate course	SM	30		
6.4.00	<u>Waterproof cement and sand (1:2) mix in:</u>				
6.4.01	12mm thick to soffits of suspended slab	SM	2		
6.4.02	Ditto to walls	SM	30		
Total Carried to Collection					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
6.5.00	<b>Metal work</b>				
6.5.01	Cast iron frame size 600 x 450mm made from 150 x 75 x 6mm thick angle with and including 12mm diameter U-shaped hook for padlock	No	2		
6.5.02	Galvanised iron sheet septic cover gauge 14; size 600 x 450mm with and including 2 No. purpose made hinges welded to frame; include for hasp and all other necessary locking devices	No	2		
6.6.00	<b>Manhole</b> <i>Notwithstanding the Standard Method of Measurement Clause V7 (a) to (e), manholes are enumerated and described in detail</i>				
6.6.01	Manholes; 450 x 600 x 600mm deep internally; excavating in ordinary soil, backfilling and disposing surplus soil by spreading on site; 150mm thick plain concrete (1:3:6) - 20mm aggregate bed; 150mm reinforced concrete class 21/20mm aggregate cover slab, reinforced with 12mm diameter high tensile bars at 250mm centres both ways; formwork; 200mm thick clay block walling in cement mortar (1:4) holes for pipes; finished internally with 12mm thick waterproofed cement and sand (1:4) render, steel trowelled; forming main and branch channels; step irons, 450 x 600mm medium duty cast iron manhole cover and frame	No	2		
Total Carried to Collection					
<b><u>Collection</u></b>					
A	Total from previos page				
B	Total from this page				
Total for Soak Pit Carried to Summary					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>7.0.00</b>	<b>ELEMENT 07: FINISHES</b>				
7.1.00	<b>Wall Finishes</b>				
7.1.01	12mm thick 2 No. coatwork cement sand (1:3) plaster; steel trowelled to walls and concrete works.	SM	198		
7.2.00	<b>Painting</b> <i>Touch up primer, prepare and apply one undercoat and two finishing coats first quality gloss oil paint as "Crown" or other equal and approved manufacturer on:</i>				
7.2.01	Plastered surfaces.	SM	198		
7.3.00	<b>Wall Tiles (1500mm high)</b> <i>Approved ceramic tiles to B.S. 1281; local; coloured glazed wall tiles to regular or approved other pattern; bedding and jointing in cement sand (1:4) mortar, grouting with white cement</i>				
7.3.01	200x 300 x 6mm thick; butt joints straight both ways; to cement sand base (m/s) to walls internal	SM	48		
7.4.00	<b>Floor Finishes</b> <i>Cement and sand screed as described in:</i>				
7.4.01	15mm thick cement and sand (1:3) mortar to floor surface over concrete slab	SM	20		
7.5.00	<b>Floor Tiles</b> <i>Approved non slip ceramic floor tiles to B.S. 1281; local; coloured glazed floor tiles to regular or approved other pattern; bedding and jointing in cement sand (1:4) mortar, grouting with white cement:</i>				
7.5.01	300 x 300 x 8mm thick; butt joints both ways; to cement sand base (m/s); to floors level; internal	SM	20		
Total for Finishes Carried to Summary					

Proposed Construction of 2No Modernized  
Toilets Bill of Quantities

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
8.0.00	<b>ELEMENT 08: PRIME COSTS &amp; PROVISIONAL SUMS</b>				
8.1.00	<b>Prime Cost sums</b> <i>Prime Cost sums for works to be executed by nominated subcontractors</i>				
8.1.01	Kenya Shillings forty five thousands ( <b>Kshs. 45,000.00</b> ) only for Electrical Installations		ITEM		45,000
8.1.01.1	<i>Allow for contractor's profit</i>		%		
8.1.01.2	<i>Allow for attendance</i>		%		
8.1.01	Kenya Shillings one hundred and fifteen thousands ( <b>Kshs. 115,000.00</b> ) only for Plumbing and Drainage works including water connection, piping & sanitary fittings, classic WC, Urinals, Toilet roll holder, terrazzo dhobi sink, glass mirror, PVC and UPVC waste and vent pipes, water storage tanks (500Litres), etc and testing & commissioning to the satisfaction of project manager		ITEM		115,000
8.1.01.1	<i>Allow for contractor's profit</i>		%		
8.1.01.2	<i>Allow for attendance</i>		%		
8.2.00	<b>Provisional Sums</b> <i>The following provisional sums are to be measured on completion and priced in accordance with the rates contained in these bills of quantities or prorata thereto or deducted in whole if not required</i>				
8.2.01	Provide a provisional sum of <b>KES 90,000.00</b> for work supervision and project management expenses including printing, transport, airtime and lunches to be used as directed by the Project Manager or deducted in whole or in part as the case may be		SUM		80,000
8.2.02	Provide a provisional sum of <b>Kshs 50,000.00</b> for Contingencies to be expended as whole or part with the authority of the client/financier.		SUM		50,000
<b>TOTAL FOR PC &amp; PS CARRIED TO SUMMARY</b>					

ITEM	DESCRIPTION	AMOUNT
<b><u>GRAND SUMMARY</u></b>		
A	Total for Substructures from pg 3	
B	Total for Superstructures from pg 4	
C	Total for Windows from pg 5	
D	Total for Doors from pg 6	
E	Total for Roofing from pg 7	
F	Total for Soak Pit from pg 9	
G	Total for Finishes from pg 10	
H	Total for Prime Cost & Provisional Sums from pg 11	
<b>SUB-TOTAL</b>		
ADD 16% V.A.T		
<b>TOTAL CARRIED TO FORM OF TENDER</b>		

AMOUNT IN WORDS.....

NAME AND ADDRESS OF TENDERER:

.....  
 .....  
 .....

SIGNATURE.....

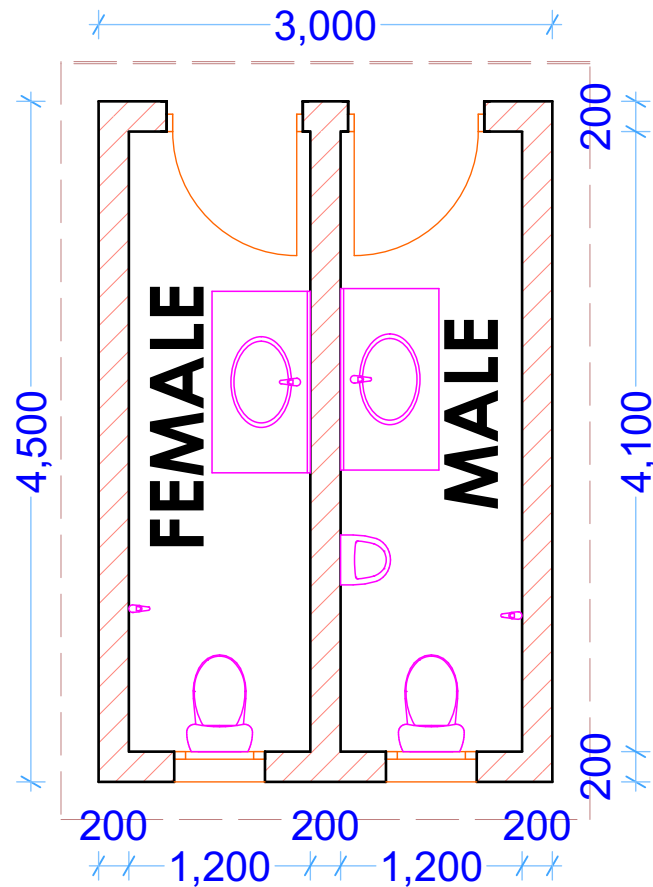
DATE.....

NAME AND ADDRESS OF WITNESS:

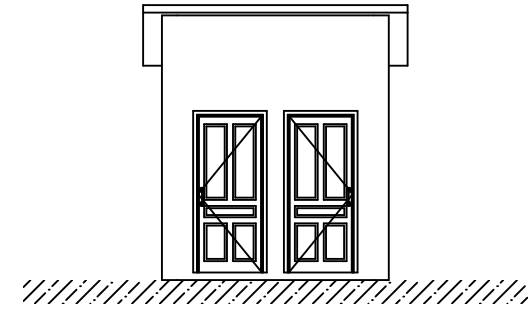
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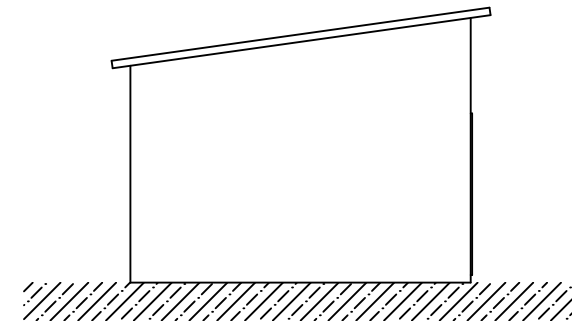
DATE.....



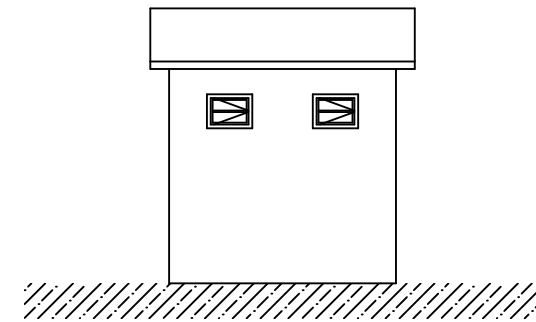
**PROPOSED LAYOUT PLAN**  
1:100



**ELEVATION 01**  
1:100



**ELEVATION 02**  
1:100



**ELEVATION 03**  
1:100

Project Title **PROPOSED CONSTRUCTION OF**

**MODERNIZED TOILET**

Department of Public Health, Sanitation & Environment

Prepared  
AAK

Checked  
AAK

Project Status

Working Drawings  
(Plan and Elevations)



LAMU COUNTY GOVERNMENT  
Public Works, Department of Infrastructure Dev't