

BILL OF QUANTITY FOR PROPOSED INTENSIVE CARE UNIT(I.C.U)

ITEM	DESCRIPTION	QTY	UNT	RATE	AMOUNT TSHS
	Compliance to Contractual Obligations				
	cover his compliance with each of the condition listed, and he shall be	1	Item	50,000.00	50,000.00
A	Plant, Tools and Vehicles				
	plant, hoists, machinery and everything required during the contract for the	1	Item	150,000.00	150,000.00
B	Safety, Health and Welfare of Work People				
	sanitary, safety and welfare facilities as necessary for the use of work-				-
	The facilities shall comprise, but not be limited to:-				-
	(1) Shelter from weather				-
	(2) Accommodation for clothing				-
	(3) Facilities for drying wet clothes				-
	(4) Protective clothing, hand gloves, helmets etc.				-
	(5) Mess room and washing facilities				-
	(6) Drinking water				-
	public sewer and attendance.				-
	(8) First Aid facilities				-
	clean and sanitary condition throughout the entire period of the contract.	1	Item	150,000.00	150,000.00
	TO COLLECTION ON PAGE No. 1/15				350,000.00
A	Sanitation of the Workers				
	Contractor to the satisfaction of the labour and health authorities and that of	1	Item	100,000.00	100,000.00
B	Protection of Persons and Property				
	Employer's servants and property and all other persons occupying or using	1	Item	50,000.00	50,000.00
C	Setting out the Works				
	instruments, ranging rods, chainmen, steel tapes, plumb lines, profiles,	1	Item	150,000.00	150,000.00
	TO COLLECTION ON PAGE No. 1/15				300,000.00

A	Government Acts Regarding Workers				
	connection with the employment of labour and other matter related to the	1	Item	100,000.00	100,000.00
B	Safeguarding the Works				
	stores, materials, plant, personnel etc. both his own and Sub-contractors'	1	Item	100,000.00	100,000.00
	TO COLLECTION ON PAGE No. 1/15				200,000.00
A	Trespass, Damage and Care of the Works				
	from the execution of the works and he shall take all reasonable precautions				-
	of adjoining or neighboring property, he shall obtain prior permission of the	1	Item	150,000.00	150,000.00
B	Protection of Public Roads, etc.				
	from all liability damage, compensation and cost of proceedings arising from				-
	any damage to private or public roads, footpaths, etc. arising from or				-
	etc. during the execution of the works and make good all works disturbed	1	Item	50,000.00	50,000.00
	TO COLLECTION ON PAGE No. 1/15				200,000.00
	OBLIGATIONS IMPOSED BY THE EMPLOYER				
A	Treasure Trove				
	during the execution of the contract shall be deemed to be the property of	1	Item	50,000.00	50,000.00
B	Day Works				
	responsible Engineer, and only in these circumstances will be permissible.				-
	of hours worked, names of craftsmen and laborers, description of the work				-
	on day works.	1	Item	100,000.00	100,000.00
C	Provisional Work				
	measurement in order to ascertain the actual quantity executed for which	1	Item	150,000.00	150,000.00
	TO COLLECTION ON PAGE No. 1/15				300,000.00
	if the responsible Engineer so directs, uncover the work to sufficiently enable				-
	Interim Payments				-
	contract.				-
	of detailed priced statement clearly referenced to the appropriate items in				-
A	be taken to indicate, influence, or prejudice, the final amount to be paid in				-

	Samples				
B	or workmanship including concrete test cubes required for the works that	1	Item	100,000.00	100,000.00
A	Testing of Materials				
	for testing of materials or goods whether already incorporated in the works				-
	tested do not conform to the standard requirements, the cost of testing and				-
	of their respective kind and those for which a British Standard or Code of	1	Item	150,000.00	150,000.00
B	Site Records				-
	record all happenings and events which might affect the progress and quality				-
	the safe custody of the responsible Engineer on the completion of the works	1	Item	50,000.00	50,000.00
C	Preparation of "As Built Drawings"				-
					-
A					-
	unauthorized visitors and provide visitors book and ensure that all authorized				-
B	Programmes				
	required by the responsible Engineer to be submitted within the period				-
C	Trade Unions and other Labour Agreement				-
	Local Labour Agreements enforceable in the area of the works to ensure smooth	1	Item	50,000.00	50,000.00
D	Signboard				-
	signboard to the responsible Engineer's design at a position chosen by the Employer				-
	accordance with the responsible Engineer's design.				-
	advertisement be allowed.	1	Item	100,000.00	100,000.00
	TO COLLECTION ON PAGE No. 1/15				450,000.00
A	Water for the Works				
	for use in the works including for use by Sub-contractors. The Contractor must	1	Item	500,000.00	500,000.00
	the nearby existing mains.	1	Item	200,000.00	200,000.00
B	Lighting and Power				
	for all temporary artificial lighting and electrical power for the works and also use	1	Item	100,000.00	100,000.00

	TEMPORARY WORKS				-
	Means of Access				-
	commencement of the work and the Bidder must allow for the building any	1	Item	200,000.00	200,000.00
	roads, temporary culverts, bridges, etc. and make good, and reinstate all work and	1	Item	50,000.00	50,000.00
	TO COLLECTION ON PAGE No. 1/15				1,050,000.00
	TEMPORARY BUILDINGS				
A	Temporary Buildings for use of the contractor, etc.				-
	buildings for the use of the Contractor as necessary for the proper execution of the	1	Item	800,000.00	800,000.00
	latrine facilities, washing, etc. to the reasonable satisfaction of responsible Engineer	1	Item	150,000.00	150,000.00
B	Storage of Material				-
	proof lock-up sheds for the safe storage and custody of materials for the works	1	Item	100,000.00	100,000.00
C	General Scaffolding				-
	including all external scaffolds, birdcage scaffolds, hoist towers, staircase well	1	Item	50,000.00	50,000.00
	TO COLLECTION ON PAGE No. 1/15				1,100,000.00
A	PROTECTION AND CLEANING THE WORKS				-
	Protection				-
	in these Bills of Quantities and all the buildings and their components and contents	1	Item	100,000.00	100,000.00
B	Removal of Rubbish and Debris				-
	accumulates and at completion of the works, and remove all plants, scaffolding and				-
	Clean and flush all gutters, rainwater and waste pipes, manholes and drains.				-
	sanitary fittings, glass (inside and out), and remove all marks, blemishes, fittings,	1	Item	50,000.00	50,000.00
	TO COLLECTION ON PAGE No. 1/15				150,000.00
	WORK BY NOMINATED SUB-CONTRACTORS				

A	General Attendance				
	Sub-contractors as measured elsewhere in these Bills, the Contractor shall in	1	Item	50,000.00	50,000.00
B	Attendance Upon other Tradesmen, etc.				-
	persons employed by the Employer every facility for carrying out their work and	1	Item	100,000.00	100,000.00
C	GOODS AND MATERIALS				-
	FROM NOMINATED SUPPLIERS				-
	Taking Delivery and Transporting				-
	nominated suppliers, the Contractor will be required to take delivery of the specified	1	Item	50,000.00	50,000.00
	TO COLLECTION ON PAGE No. 1/15				200,000.00
	GRAND TOTAL PRELIMINARIES				4,300,000.00
	ELIMENT NO. 1				
	EXCAVATION AND EARTH WORKS				
A	site	180	M ²	2,000.00	360,000.00
B	deep	74.915	M ³	6,000.00	449,490.00
C	Extra over in all kinds of excavation for breaking up rock and the like (Provisional)	1	Item	500,000.00	500,000.00
E	Earth back filling well rammed and consolidated around foundations	17	M ³	30,000.00	510,000.00
F	Load up surplus excavated material and remove from site (Provisional)	1	Item	200,000.00	200,000.00
G	200mm thick including excavating in borrow pits to make up levels under floors and	26.7	M ³	25,000.00	667,500.00

	DISPOSAL OF WATER				-
H	pumping bailing or by other means necessary (Provisional)	1	Item	200,000.00	200,000.00
	TO COLLECTION ON PAGE # 2/I/1/4				2,886,990.00
	PLANKING & STRUTTING				-
A	and maintain all faces of excavations	1	Item	200,000.00	200,000.00
	HARDCORE				-
B	polythene membrane (measured separately)	21.888	M ³	30,000.00	656,640.00
	Soil Sterilization				-

C	solution applied strictly in accordance with the manufacturer's printed instructions	133.515	M ²	4,500.00	600,817.50
	CONCRETE WORK				-
	Plain insitu concrete grade '7.5' in (1:4:8) in				-
*D	75mm Blinding	6.188	M ³	180,000.00	1,113,840.00
	Plain insitu Concrete grade '15' in (1:3:6) in				-
F	100 thick Concrete Floor slab	13.35	M ³	280,000.00	3,738,000.00
	TO COLLECTION ON PAGE # 2/I/1/4				6,309,297.50
	reinforcement				
A	Ring Beams	3.477	M ³	300000	1,043,100.00
	REINFORCEMENT				
	High tensile reinforcement bars grade 460 to BS 4449:1969 standards				
B	8mm diameter bars	139.23	Kg	2,800.00	389,844.00
C	12mm diameter bars	358.445	Kg	5,400.00	1,935,603.00
	FORMWORK				
D	Vertical sides of foundations and the like	18.6	M ²	12,000.00	223,200.00
E	Vertical and bottom sides of beams	38.95	M ²	12,000.00	467,400.00
	BLOCKWORK				
	sand (1:4) mortar to:				
F	230mm to Walls	113.22	M ²	30,000.00	3,396,600.00
	TO COLLECTION ON PAGE # 2/I/1/4				6,412,647.00
	DAMP PROOF COURSE (DPC)				
A	on block work.	94.35	M	6,500.00	613,275.00
	SUNDRIES				
B	12mm Cement and sand (1:4) external rendering to concrete or block-work	21.7	M ²	4,500.00	97,650.00
C	Prepare and apply two coats black bituminous paint on rendered walls externally.	16.29	M ²	5,000.00	81,450.00

	TO COLLECTION BELOW				
--	----------------------------	--	--	--	--

	sand (1:4) mortar to:				
A	230mm to Walls	251.264	M ²	30,000.00	7,537,920.00
	TO COLLECTION ON PAGE # 2/I/1/4				8,330,295.00
	ELEMENT NO. 2				
	DOORS				
A	50 x 150 Hardwood doorframe sizes 900 x 2100 .	5	No.	120,000.00	600,000.00
B	50 x 150 Hardwood doorframe sizes 750 x 2100 high overall height	4	No.	90,000.00	360,000.00
C	22x42mm Hardwood architrave in the door frames	11	No.	6,500.00	71,500.00
D	complete with all necessary ironmongery	7	No.	180,000.00	1,260,000.00
E	complete with all necessary ironmongery	4	No.	180,000.00	720,000.00
	TOTAL CARRIED TO SUMMARY OF ELEMENTS ON PAGE 1/S/1				3,011,500.00
	ELEMENTS NO. 3				
	WINDOWS				
A	Window size 18000 x 1200 high overall comprising of 50mm x 4mm thick steel	2	No.	190,000.00	380,000.00
B	Window size 650 x 650 high overall comprising of 50mm x 4mm thick steel	5	No.	75,000.00	375,000.00
C	Window size 750 x 650 high overall comprising of 50mm x 4mm thick steel	4	No.	85,000.00	340,000.00
D	Window size 900 x 650 high overall comprising of 50mm x 4mm thick steel	4	No.	140,000.00	560,000.00
	TOTAL CARRIED TO SUMMARY OF ELEMENTS ON PAGE 1/S/1				1,655,000.00

	ELEMENT No. 4				
	ROOF				
	ROOF COVERINGS				
A	28 Gauge type corrugated Iron roofing sheets as manufactured by the ALUCO	182.95	M ²	10,500.00	1,920,975.00
B	28 gauge Ridge capping C. iron sheeting of size to be directed by responsible	21.9	M	9,500.00	208,050.00

	ROOF STRUCTURE				
A	100 x 50mm treated soft wood wall plate	41.4	M	6,200.00	256,680.00
B	150 x 50mm treated soft wood tie beam	183.6	M	9,500.00	1,744,200.00
C	100 x 50mm treated soft wood timber struts	126.96	M	6,200.00	787,152.00
D	150 x 50mm treated soft wood rafters	100.248	M	9,500.00	952,356.00
E	100 x 50mm treated soft wood battens/purlings	175.2	M	6,200.00	1,086,240.00
F	250 x25mm sown soft wood for fascia boards and appropriately chamfered at one	76.51	M	8,000.00	612,080.00
	TO COLLECTION ON PAGE # 2/I/4/3				7,567,733.00
	ROOF STRUCTURE (cont.)				-
A	50 X 6X 600mm long flat bar with holes for 16mm Diameter bolts one end casted	10	No.	6,500.00	65,000.00
B	16mm bolts 200mm long with nuts and washers.	10	No.	5,000.00	50,000.00
	ELEMENT No. 5				
	FINISHINGS				
	INTERNAL				
	FLOOR FINISHINGS				
	Cement and sand (1:3) screeds and backings.				
A	40 mm thick cement sand screed with steel trowelled to a smooth finish.	93.515	M ²	10,500.00	981,907.50
	WALL FINISHINGS				
	Cement and sand (1:3) plaster in a two coats with steel trowelled to a smooth				
B	22mm thick to walls	282.528	M ²	9,000.00	2,542,752.00
	CEILING BOARD				
C	Supply and fixing T& G soft wood treated timber size 75x25mm for brandaring to	887.55	M	5,500.00	4,881,525.00
	TO COLLECTION ON BAGE # 2/I/5/2				
	EXTERNAL				
	WALL FINISHINGS				
	External cement and sand (1:4) render applied in two coats and steel trowelled				
A	15mm thick to walls	180.213	M ²	9,000.00	1,621,917.00
	Tyrolean render				
B	22mm Render to walls applied in two coats with ordinary Portland cement coloured	180.213	M ²	5,500.00	991,171.50
	TO COLLECTION BELOW				11,134,273.00

	ELEMENT No. 6				
	DECORATIONS				
	INTERNAL				
	Prepare surfaces and apply one undercoat and two finishing coats of Robbilac				
A	Walls and ceiling	282.528	M ²	9,200.00	2,599,257.60
	Prepare surfaces and apply two finishing coats of Robbilac Tobacco gloss oil				
B	400 mm high Skirting to Plastered walls	17.6	M ²	12,000.00	211,200.00
	EXTERNAL				
	Prepare surfaces and apply one undercoat and two finishing coats of Robbilac				
C	Rendered walls	43.097	M ²	9,200.00	396,492.40
	Prepare surfaces and apply one undercoat and two finishing coats of Bitumen				
D	Foundation wall surfaces to be directed by responsible Engineer.	29.256	M ²	8,500.00	248,676.00
	TOTAL CARRIED TO SUMMARY OF ELEMENTS PAGE 1/S/1				3,455,626.00
	ELEMENT No. 7				
	FITTINGS & FIXTURES				
	Metal, PVC and Concrete works or other approved suitable material as per				
A	Allow for 100 mm Diameter PVC down pipes for conveyance of rain-water to the	12	M	10,000.00	120,000.00
B	Allow for provision of at least 100 mm thick 1:2:4 concrete splash blocks to safely	9.9	M ³	170,000.00	1,683,000.00
C	Allow for 1 ramps as (indicated in the drawings or to be otherwise directed by	1	Item	300,000.00	300,000.00
	TOTAL CARRIED TO SUMMARY ON PAGE I/S/1				2,103,000.00

ELEMENT No. 8					
PLUMBING AND ENGINEERING INSTALLATIONS					
SANITARY APPLIANCES					
Supply and fix the following sanitary appliance to “Armitage shanks”					
A	635 x 455mm white vitreous China hand washbasin complete with two 12mm	2	No.	90,000.00	180,000.00
B	White vitreous China squatting type W.C. suite comprising of 9 litres capacity	4	No.	100,000.00	400,000.00
C	Toilet roll holder brass type size 150 x 150mm with wooden rollers and fixing to	4	No.	45,000.00	180,000.00
D	610 x 450mm polished plate glass mirror holed for and including 4 No. brass screws	2	No.	25,000.00	50,000.00
E	Bucket type shower tray with 100mm C.P. rose and all accessories	2	No.	85,000.00	170,000.00
F	150 x 150 x 6mm White glazed ceramic wall tiles	60.8	M ²	18,500.00	1,124,800.00
TESTING					
G	satisfaction of the responsible District Engineer.	1	Item	85,000.00	85,000.00
H	including establishing holes and cutting chase to block walls for small pipes and	1	Item	450,000.00	450,000.00
TO COLLECTION ON PAGE 2/I/8/2					2,639,800.00
ELEMENT No. 9					
EXTERNAL WORKS					
MANHOLES					
A	Manhole comprising 50mm concrete grade 10 blinding, 200mm thick concrete grade	1	Item	800,000.00	800,000.00
SEPTIC TANK					
B	Allow for construction of standard septic tank (as per drawings provided or	1	Item	#####	1,000,000.00
SOAK AWAY PIT					
C	Allow for construction of standard soak away pit (as per drawings provided or	1	Item	#####	1,000,000.00

	Total				2,800,000.00
	GRAND TOTAL				58,506,161.50

PROPOSED EXTENSION CONSTRUCTION AND RENOVATION FOR HURUMA DDH

PROJECT: PROPOSED EXTENSION CONSTRUCTION AND RENOVATION FOR HURUMA DDH

Financier:

Contractor:

CONSULTING ENGINEER:

Date:

QUANTITY SURVEYOR:

BILL OF QUANTITIES FOR PROPOSED EXTENSION OF HURUMA DDH.

ITEM	DESCRIPTION				T.SHS.		
	Compliance to Contractual Obligations						
	The Contractor is required to insert a price against the respective clauses to cover his compliance with each of the condition listed, and he shall be deemed to have sufficiently allowed for all the necessary costs and expenses for carrying out and/or observance of such conditions.						
A	Plant, Tools and Vehicles						
	Provide all necessary plant, tools, tackles, vehicles, transportation, staging plant, hoists, machinery and everything required during the contract for the proper and expeditious execution of the works and remove when no longer required. Allow for adopting from time to time as may be necessary, and maintaining all plant, tools etc. during the course of the contract, and removing from site when no longer required.				50,000.00		
B	Safety, Health and Welfare of Work People						
	Provide and maintain on site, throughout the duration of the contract sanitary, safety and welfare facilities as necessary for the use of work-people engaged upon the works in accordance with the requirements of the Huruma DDH and in all respects to the satisfaction of the responsible Engineer.						
	The facilities shall comprise, but not be limited to:-						
	(1) Shelter from weather						
	(2) Accommodation for clothing						
	(3) Facilities for drying wet clothes						
	(4) Protective clothing, hand gloves, helmets etc.						
	(5) Mess room and washing facilities						
	(6) Drinking water						
	(7) Sanitary conveniences, and W.C. and temporary connection to public sewer and attendance.						
	(8) First Aid facilities						
	The temporary accommodation and facilities provided must be kept in a clean and sanitary condition throughout the entire period of the contract.				250,000.00		
	TO COLLECTION ON PAGE No. 1/15				300,000.00		

A	Sanitation of the Workers						
	The sanitation of the workers shall be arranged and maintained by the Contractor to the satisfaction of the labour and health authorities and that of the responsible Engineer.				50,000.00		
B	Protection of Persons and Property						
	The Contractor shall provide for the efficient protection of the public, the Employer's servants and property and all other persons occupying or using the premises also of adjoining or neighbouring property during the progress of the works from injury that may be caused as a result or consequence of the carrying out of the works. The Contractor shall take all precautions to eliminate as far as possible the danger to the public and other persons arising from the entry and exist of vehicles to and from the site.				100,000.00		
C	Setting out the Works						
	The contractor is to provide, at his own cost, dumpy level, staff, surveying instruments, ranging rods, chainmen, steel tapes, plumb lines, profiles, stakes lines, and the like for setting out the works. The figured dimensions on the drawings are to be taken in all cases in preference to the scaled dimensions. In the event of an error or discrepancy, the responsible Engineer is to be immediately informed for the purpose of seeking guidance and clarifications.				100,000.00		

C	TO COLLECTION ON PAGE No. 1/15				250,000.00		
A	Government Acts Regarding Workers						
	Allow for complying with all Government Acts, orders and regulations in connection with the employment of labour and other matter related to the execution of the works. The Contractor shall be deemed to have made himself dully acquainted with all current Acts of Parliament and Regulation including Police and Health regulations regarding the employment movement, housing, security and control of labour, labour camps, etc. It is most important that before bidding the Bidder should have obtained, from the relevant authority, the fullest information regarding all such regulation and/or restrictions which may affect the organization of the works, supply and control of labour etc, and allow accordingly for the same in his Bid. No claim in respect of want of knowledge in this connection will be entertained.				50,000.00		
B	Safeguarding the Works						
	The Contractor shall be entirely responsible for the security of the works, stores, materials, plant, personnel etc. both his own and Sub-contractors' and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage. The Contractor shall also be responsible for the protection of the public and visitors to the site				100,000.00		
	TO COLLECTION ON PAGE No. 1/15				150,000.00		
A	Trespass, Damage and Care of the Works						
	The Contractor shall prevent any trespass on the adjoining property resulting from the execution of the works and he shall take all reasonable precautions during the progress of the Contract to prevent any damage to the adjoining and neighboring property or public or private roadways, and to prevent any materials, plant, rubbish, etc. from collecting on such property as a result of his carrying out the Works.						
	Should the Contractor wish to erect scaffolding on or to otherwise make use of adjoining or neighboring property, he shall obtain prior permission of the Employer and approval of the responsible Engineer, pay any necessary costs and clear away at completion or when directed to the Employer's satisfaction and that of the Architect. Except as provided for in the conditions of the contract, the contractor shall be held responsible for the care of the works generally until their completion and handing over including all work executed and materials and goods deposited on site by him or Sub-contractor or Suppliers together with all the risks arising from weather, carelessness of operatives, damage or loss by theft or any other cause. He shall make good such damage or loss at his own expense.				50,000.00		
B	Protection of Public Roads, etc.						
	Provide by means of insurance or otherwise for indemnifying the Employer from all liability damage, compensation and cost of proceedings arising from the usage of all or any public or private roads and footways during the execution of the works and including complying with the current local Authority Regulations in respect thereof. The contractor is responsible for keeping the roads clean and free from mud debris, etc.						
	Maintain as required throughout the execution of the works and make good any damage to private or public roads, footpaths, etc. arising from or consequent upon the execution of the works to the satisfaction of the local or other competent authority and that of the responsible Engineer.				150,000.00		
	Maintain and protect all water, electrical, telephone, and drainage services, etc. during the execution of the works and make good all works disturbed and pay all fees and charges in connection therewith.						
	TO COLLECTION ON PAGE No. 1/15				200,000.00		
	OBLIGATIONS IMPOSED BY THE EMPLOYER						
A	Treasure Trove						
	All treasure trove, or any matter, material, or object of value discovered during the execution of the contract shall be deemed to be the property of the Employer and shall immediately be reported to the responsible Engineer who will give instructions regarding their disposal.				50,000.00		
B	Day Works						
	Day works shall only be executed with the prior written permission of the responsible Engineer, and only in these circumstances will be permissible.						

	Where this authority is given, original vouchers giving the fullest particulars of hours worked, names of craftsmen and laborers, description of the work executed, quantities of materials and type and number of plant used in the items shall be provided. The day works sheets shall be numbered in sequence. All sheets are to be signed by the site foreman in charge and the responsible Engineer. Such signatories are only to be taken as certifying that the time, materials and plant are correct, and shall not be held to justify a claim that the work shall be so charged, or that it cannot be measured at the rates given in the day work schedule at the end of these Bills.						
	No bonus lump sum payment or enhanced rates for bonus will be accepted on day works.					50,000.00	
C	Provisional Work						
	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, and/or re-measurement under this contract shall be left uncovered for a reasonable time to allow all the necessary measurements to be taken by the Quantity Surveyor. Immediately the work is ready for measuring the Contractor shall give notice to the responsible Engineer.					50,000.00	
	TO COLLECTION ON PAGE No. 1/15					150,000.00	
	If the Contractor shall make default in these respects he shall be required to, if the responsible Engineer so directs, uncover the work to sufficiently enable all necessary measurements to be taken and afterwards reinstate at his own expense						
	Interim Payments						
	The conditions of payments shall be those set out in of the conditions of the contract.						
	All applications from the Contractor for interim payments must be in the form of detailed priced statement clearly referenced to the appropriate items in the Bill of Quantities, together with variations, Sub-contractor's work. These statements shall be prepared of the Contractor's own expense and submitted to the responsible Engineer.						
A	All applications for interim payments will be treated purely as such as will not be taken to indicate, influence, or prejudice, the final amount to be paid in the final certificate					50,000.00	
	Samples						
B	The Contractor shall furnish at his own cost any sample of materials, goods or workmanship including concrete test cubes required for the works that may be called either for by the responsible Engineer for approval or rejection until such samples are approved and the responsible Engineer may subsequently reject any materials, goods or workmanship not in their opinion, equal to the approved samples. The procedure for submitting samples and method for identification shall be laid down by the responsible Engineer.					100,000.00	
						150,000.00	
A	Testing of Materials						
	A provisional sum has been included elsewhere in these Bills of Quantities for testing of materials or goods whether already incorporated in the works or not, and to be deducted wholly or in part at the absolute discretion of the responsible Engineer.						
	The Bidders attention is drawn to the fact that when materials or goods tested do not conform to the standard requirements, the cost of testing and retesting is to be met by the contractor. The contractor shall also replace at his own cost/expense the preliminary cost of making good any work failing inspection on test.						
	The materials and workmanship used throughout the works shall be the best of their respective kind and those for which a British Standard or Code of Practice exists, shall comply therewith unless otherwise stated, and in any case equal to samples deposited with an approved by the responsible Engineer.					350,000.00	

B Site Records

	The Contractor is to keep an accurate daily site diary in which he shall record all happenings and events which might affect the progress and quality of work, including weather conditions, number of artisans, labours and other employees, deliveries of materials, consignments, day works overtime, work of Sub-contractors and visits to the site, of supervisory and other staff of the Employer					
	The contractor shall, on request, deliver the diary and the visitors' book into the safe custody of the responsible Engineer on the completion of the works and shall at all times, during the progress of the works, make it available for inspection.				50,000.00	
C	Preparation of "As Built Drawings"					
A						
	The Contractors is required to control all visitors to the site and to keep out unauthorized visitors and provide visitors book and ensure that all authorized visitors, including all Engineer's and the Employer's staff, sign therein.				50,000.00	
B	Programmes					
	A completely annotated programme of building works progress will be required by the responsible Engineer to be submitted within the period stated in the Condition of Contract. The programme may be compiled on either the "Bar" or "Critical path" method and must accurately detail the entire operations of the works. After receiving approval from the responsible Engineer, the Contractor will submit two additional copies of the programme to the responsible Engineer, one copy to the responsible Engineer and shall display one copy on pin board on the wall in the site office. The copy kept in the site office shall be processed every week to clearly indicate the precise progress of the contract works.				50,000.00	
C	Trade Unions and other Labour Agreement					
	The Contractor is required to comply with all Trade Union Agreements or other Local Labour Agreements enforceable in the area of the works to ensure smooth execution of the contract, and the Contractor will be held implicitly responsible for any default in this matter.				50,000.00	
D	Signboard					
	The Contractor shall erect, maintain and adapt throughout the entire contract a signboard to the responsible Engineer's design at a position chosen by the Employer and shall display the name of the contract, the name of the Employer, responsible Engineer and any other professional persons specified by the Employer together with any approved Sub-contractor and Sub-traders.					
	The lettering used for writing the names of professional firms or persons must be in accordance with the responsible Engineer's design.					
	No other industrial name boards will be permitted whatsoever nor will any advertisement be allowed.				300,000.00	
	TO COLLECTION ON PAGE No. 1/15				450,000.00	

A	Water for the Works					
	The Contractor shall provide at his own risk and cost all necessary water required for use in the works including for use by Sub-contractors. The Contractor must make his own arrangements for connection to the nearest suitable water source, and for metering where applicable. The Contractor must also provide temporary storage tanks as necessary to avail sufficient water for use on site throughout the duration of the works at his own cost and clear away when no longer required and make good all disturbed surfaces to the satisfaction of the responsible Engineer.					
	No guarantee is given or implied that sufficient or any water will be available from the nearby existing mains.				1,000,000.00	
B	Lighting and Power					
	The Contractor shall provide at his own risk and cost throughout the entire contract for all temporary artificial lighting and electrical power for the works and also use by all Sub-contractors including all connections of temporary services, cost of electricity and all charges together with the supply of leads lamps fittings boards.				1,000,000.00	
	TEMPORARY WORKS					
	Means of Access					

	Means of access to the site shall be agreed with the responsible Engineer prior to commencement of the work and the Bidder must allow for the building any necessary roads for transport of materials, plants and workmen as may be required for the complete execution of the works including the provision of temporary culverts, crossing, bridges or any other means of gaining access to, and movement within, the site. Upon completion of the works, the contractor shall remove such temporary access roads, temporary culverts, bridges, etc. and make good, and reinstate all work and surface disturbed to the satisfaction of the responsible Engineer.					500,000.00		
	Upon completion of the works, the contractor shall remove such temporary access roads, temporary culverts, bridges, etc. and make good, and reinstate all work and surface disturbed to the satisfaction of the responsible Engineer					300,000.00		
	TO COLLECTION ON PAGE No. 1/15					2,800,000.00		
	TEMPORARY BUILDINGS							
A	Temporary Buildings for use of the contractor, etc.							
	Provide, maintain, alter adapt as necessary all requisite and other temporary buildings for the use of the Contractor as necessary for the proper execution of the contract and including similar provisions for all Sub-contractor employed on the contract.							
	Provide, fit and maintain for the use of the Contractor and Sub-contractor workers, latrine facilities, washing, etc. to the reasonable satisfaction of responsible Engineer and Health and Labour Authorities.					800,000.00		
B	Storage of Material The Contractor shall provide at his own risk and cost where directed on site, weather-proof lock-up sheds for the safe storage and custody of materials for the works including Sub-contractor's works and for use of workmen engaged thereon and shall remove such shades and make good damaged or disturbed surfaces upon completion of the works to the satisfaction of the responsible Engineer.							
						700,000.00		

C	General Scaffolding							
	Provide, erect and subsequently remove when no longer required scaffolding including all external scaffolds, birdcage scaffolds, hoist towers, staircase well scaffolding and all moveable platforms.					700,000.00		
	TO COLLECTION ON PAGE No. 1/15					2,200,000.00		
A	PROTECTION AND CLEANING THE WORKS							
	Protection							
	Allow for covering up and/or otherwise protecting the whole of the works described in these Bills of Quantities and all the buildings and their components and contents and all materials, from all damage (day and night) or the injurious effects, of weather, frost or any other cause whatsoever, including, but not limited to, the use, adaptation and maintenance of tarpaulins, temporary roofing, casing up, and screens and their removal on completion, and make good any damage which may nevertheless have been done free of cost to the Employer.					100,000.00		
B	Removal of Rubbish and Debris							
	Allow for removing all rubbish and debris from the buildings and the site as it accumulates and at completion of the works, and remove all plants, scaffolding and unused materials at completion.							
	Clean and flush all gutters, rainwater and waste pipes, manholes and drains.							
	Wash (except where such treatment might cause damage) scrub and clean floors, sanitary fittings, glass (inside and out), and remove all marks, blemishes, fittings, and decorated surface generally, polish door furniture and bright parts of metal work and leave the whole of the building and compound clean, perfect and fit for occupation for the responsible Engineer's approval.					150,000.00		
	TO COLLECTION ON PAGE No. 1/15					250,000.00		
	WORK BY NOMINATED SUB-CONTRACTORS							
A	General Attendance							

<p>On top of the general attendance the Contractor is deemed to provide a nominated Sub-contractors as measured elsewhere in these Bills, the Contractor shall in addition be required to obtain from all Sub-contractors the position and sizes of all recesses, performances, chases and other relevant details necessary for execution of their works, which latter information is to be made available to all Sub-contractors affected. In the event of non-compliance of this clause the contractor shall be required to rectify all errors of setting out including the forming of recesses. Chases and perforations, etc. including making good finishing at his own expense or pay the Sub-contractor's charges for the same.</p>				50,000.00		
---	--	--	--	-----------	--	--

B	Attendance Upon other Tradesmen, etc.						
	<p>Allow for the attendance of trade upon trade and to afford any tradesmen or other persons employed by the Employer every facility for carrying out their work and also for the use of ordinary standing scaffolding. The contractor, however, shall not be required to erect any special scaffolding for them, unless they pay for it.</p>				50,000.00		
C	GOODS AND MATERIALS						
	FROM NOMINATED SUPPLIERS						
	Taking Delivery and Transporting						
	<p>Where in these Bill of Quantities items have been inserted for attendance upon nominated suppliers, the Contractor will be required to take delivery of the specified items, transport them on the site, store until required for fixing. The Bidder must allow for this in his prices for attendance.</p>				100,000.00		
	TO COLLECTION ON PAGE No. 1/15				200,000.00		
	GRAND TOTAL PRELIMINARIES				7,100,000.00		

O.P.D BUILDING BILL OF QUANTITY							
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT TSHS.		
	ELEMENT NO. 1						
	SUBSTRUCTURE, FRAME AND WALLS						
	EXCAVATION AND EARTHWORKS						
A	Excavate oversite to remove vegetable soil average 150mm deep and remove from site	3170	M ²	2,000.00	6,340,000.00		
B	Excavate foundation trench commencing at stripped level not exceeding 1.50 metres deep	224.5	M ³	8,000.00	1,796,000.00		
C	Ditto pits for column base ditto	175.5	M ³	8,000.00	1,404,000.00		
D	Extra over in all kinds of excavation for breaking up rock and the like (Provisional)	1	Item	1,000,000.00	1,000,000.00		
E	Earth back filling well rammed and consolidated around foundations	60	M ³	40,000.00	2,400,000.00		
F	Load up surplus excavated material and remove from site (Provisional)	1	Item	2,000,000.00	2,000,000.00		
G	Imported filling material well rammed and consolidated in layers not exceeding 200mm thick including excavating in borrow pits to make up levels under floors and platforms (Provisional)	1	Item	2,500,000.00	2,500,000.00		
	DISPOSAL OF WATER				-		
H	Allow for keeping excavations free from water (except spring or running water) by pumping bailing or by other means necessary (Provisional)	1	Item	500,000.00	500,000.00		
	TO COLLECTION ON PAGE # 2/I/1/4						
	PLANKING & STRUTTING						
A	Allow for the provision and subsequent removal of planking and strutting to uphold and maintain all faces of excavations	1	Item	500,000.00	500,000.00		
	HARDCORE						
B	200mm Hardcore bed leveled and blinded with 20mm layer of sand to receive polythene membrane (measured separately)	1215	M ²	11,500.00	13,972,500.00		
	Soil Sterilization						
C	Treat top of hardcore with Aldex 48 or other equal and approved anti-termite solution applied strictly in accordance with the manufacturer's printed instructions	1215	M ²	4,500.00	5,467,500.00		
	CONCRETE WORK						
	Plain insitu concrete grade '7.5' in (1:4:8) in						
*D	75mm Blinding	52	M ²	45,000.00	2,340,000.00		
	Plain insitu Concrete grade '20' in (1:2:4) in						
E	Strip foundation	17.75	M ³	150,000.00	2,662,500.00		
F	100 thick Concrete Floor slab reinforced with BRC and casted with suitable expansion joints at the end of each bay of sizes not exceeding 7200mm x 7200mm meter of approximately 15 – 25mm thick made up of either sand or any other material to be approved by responsible Engineer.	162.857	M ³	220,000.00	35,828,571.46		
	TO COLLECTION ON PAGE # 2/I/1/4						

	Reinforced insitu concrete grade '25' (1:1¹ / including vibrating around bar reinforcement						
A	Column bases	21	M ³	180,000.00	3,780,000.00		
B	Columns	17	M ³	180,000.00	3,060,000.00		
C	Beams	60	M ³	180,000.00	10,800,000.00		
	REINFORCEMENT						
	High tensile reinforcement bars grade 460 to BS 4449:1969 standards						
D	8mm diameter bars	1555.56	Kg	2,800.00	4,355,568.00		
E	12mm diameter bars	1216	Kg	5,400.00	6,566,400.00		
F	16mm Diameter bars	2946	Kg	6,500.00	19,149,000.00		
G	20mm Diameter bars	714	Kg	7,500.00	5,355,000.00		
	FORMWORK						
H	Vertical sides of foundations and the like	89	M ²	12,000.00	1,068,000.00		
I	Vertical sides of columns	216	M ²	12,000.00	2,592,000.00		
J	Vertical and bottom sides of beams	145	M ²	12,000.00	1,740,000.00		
	BLOCKWORK						
	Solid concrete blocks to BS 2028 type 'A' bedded and jointed in cement and sand (1:4) mortar to:						
K	230mm to Walls	1215	M ²	30,000.00	36,450,000.00		
	TO COLLECTION ON PAGE # 2/I/1/4						

	DAMP PROOF COURSE (DPC)						
A	Hessian based damp proof course to BS 743 type 'A' 230mm wide laid horizontally on block work.	180	M	6,500.00	1,170,000.00		
	SUNDRIES						
B	12mm Cement and sand (1:4) external rendering to concrete or block-work	150	M ²	10,000.00	1,500,000.00		
C	Prepare and apply two coats black bituminous paint on rendered walls externally.	150	M ²	11,000.00	1,650,000.00		
	TO COLLECTION BELOW						

	ELEMENT NO. 2						
	DOORS						
A	50 x 150 Hardwood doorframe sizes 1500 x 2700 high overall height with 900mm x 600 high louvered vents fitted with appropriate frame to hold 400 x 150 x 5mm thick clear grass louvers for enhancing light and ventilation.	12	No.	320,000.00	3,840,000.00		
B	50 x 150 Hardwood doorframe sizes 1200 x 2700 high overall height with 900mm x 600 high louvered vents fitted with appropriate frame to hold 360 x 150 x 5mm thick clear grass louvers for enhancing light and ventilation.	16	No.	280,000.00	4,480,000.00		
C	50 x 150 Hardwood doorframe sizes 800 x 2100 high overall height	11	No.	250,000.00	2,750,000.00		
D	22x42mm Hardwood architrave in the door frames	60	No.	12,000.00	720,000.00		

E	Paneled door 40mm thick double leaf solid hardwood door size 1500 x 2100 high complete with all necessary ironmongery	12	No.	270,000.00	3,240,000.00		
F	Paneled door 40mm thick double leaf solid hardwood door size 1200 x 2100 high complete with all necessary ironmongery	16	No.	175,000.00	2,800,000.00		
G	Paneled door 40mm thick single leaf solid hardwood door size 750 x 2000 high complete with all necessary ironmongery	11	No.	175,000.00	1,925,000.00		
TOTAL CARRIED TO SUMMARY OF ELEMENTS ON PAGE 1/S/1							
ELEMENTS NO. 3							
WINDOWS							
A	Window size 1500 x 1500 high overall comprising of 50mm x 4mm thick steel casement frames fitted with 5mm thick clear glass glazed shutters and welded to meshed 12mm burglar proof bars at 150mm center to center both ways.	5	No.	250,000.00	1,250,000.00		
B	Window size 1500 x 1200 high overall comprising of 50mm x 4mm thick steel casement frames with 5mm thick clear glass glazed shutters and welded to meshed 12mm burglar proof bars at 150mm center to center both ways.	5	No.	250,000.00	1,250,000.00		
C	Window size 750 x 750 high overall comprising of 50mm x 4mm thick steel casement frames with 5mm thick clear glass glazed shutters and welded to meshed 12mm burglar proof bars at 150mm center to center both ways.	2	No.	200,000.00	400,000.00		
TOTAL CARRIED TO SUMMARY OF ELEMENTS ON PAGE 1/S/1							

ELEMENT No. 4							
ROOF							
ROOF COVERINGS							
28 Gauge type corrugated Iron roofing sheets as manufactured by the ALUCO Division of Aluminium Africa Ltd., P.O. Box 9293 Dar es Salaam or other equal and approved by the responsible Engineer laid with at least one and a half corrugations side laps and 250mm end laps							
A	Roof covering sloping not exceeding 45 degrees from horizontal.	2415	M ²	10,550.00	25,478,250.00		
B	28 gauge Ridge capping C. iron sheeting of size to be directed by responsible Engineer.	152	Lm	9,500.00	1,444,000.00		
ROOF STRUCTURE							
C	150 x 50mm rafters and main tie beam including struts and bracings for Timber Trusses	1262	Lm	9,000.00	11,358,000.00		
TO COLLECTION ON PAGE # 2/I/4/3							

	ROOF STRUCTURE (cont.)						
A	8mm bolts of varying lengths to be determined by the responsible Engineer with nut and washers.	219	No.	1,600.00	350,400.00		
B	100 x 50 x 4mm Angle cleats welded to truss and painted, holed twice for fixing 8mm diameter bolts with nuts and washers.	60	No.	16,500.00	990,000.00		
C	8mm Thick steel gusset plate overall size 200 x 200mm with 4Nos. of holes for inclusive 16mm diameter bolts and nuts.	58	No.	12,500.00	725,000.00		
D	Ditto overall size 300 x 400mm ditto	24	No.	13,000.00	312,000.00		
E	Ditto overall size 250 x 350mm with 4no.s of holes for inclusive 16mm diameter bolts and nuts	110	No.	15,550.00	1,710,500.00		
	TO COLLECTION ON PAGE # 2/I/4/3						
	ELEMENT No. 5						
	FINISHINGS						
	INTERNAL						
	FLOOR FINISHINGS						
	Cement and sand (1:3) screeds and backings.						
A	40 mm thick cement sand screed with steel trowelled to a smooth finish.	1215	M ²	10,500.00	12,757,500.00		
	WALL FINISHINGS						
	Cement and sand (1:3) plaster in a two coats with steel trowelled to a smooth finish.						
B	22mm thick to walls	1215	M	9,000.00	10,935,000.00		
	TO COLLECTION ON BAGE # 2/I/5/2						

	EXTERNAL						
	WALL FINISHINGS						
	External cement and sand (1:4) render applied in two coats and steel trowelled to a smooth finish.						
A	15mm thick to walls	1215	M ²	6,000.00	7,290,000.00		
	Tyrolean render						
B	22mm Render to walls applied in two coats with ordinary Portland cement coloured with a pigment to the approval of responsible Engineer.	1215	M ²	9,000.00	10,935,000.00		
	TO COLLECTION BELOW						
	ELEMENT No. 6						
	DECORATIONS						
	INTERNAL						
	Prepare surfaces and apply one undercoat and two finishing coats of Robbilac (eggshell) Broken White B/N. 4796 emulsion paint to:						
A	Plastered walls and ceiling	1215	M ²	8,000.00	9,720,000.00		
	Prepare surfaces and apply two finishing coats of Robbilac Tobacco gloss oil paint to:				-		
B	400 mm high Skirting to Plastered walls	572	M ²	8,000.00	4,576,000.00		

	EXTERNAL				-		
	Prepare surfaces and apply one undercoat and two finishing coats of Robbilac Weather-guard Acrylic Emulsion Bamboo emulsion paint to:				-		
C	Rendered walls	1215	M ²	9,000.00	10,935,000.00		
	Prepare surfaces and apply one undercoat and two finishing coats of Bitumen gloss oil paint to:				-		
D	Foundation wall surfaces to be directed by responsible Engineer.	436	M ²	8,000.00	3,488,000.00		
	TOTAL CARRIED TO SUMMARY OF ELEMENTS PAGE 1/S/1						
	ELEMENT No. 7						
	FITTINGS & FIXTURES						
	Metal, PVC and Concrete works or other approved suitable material as per guidance of responsible Engineer and design.						
A	Allow for 100 mm Diameter PVC down pipes for conveyance of rain-water to the discharge points designated by responsible Engineer	180	Lm	18,500.00	3,330,000.00		
B	Allow for provision of at least 100 mm thick 1:2:4 concrete splash blocks to safely discharge water being conveyed by down pipes (provisional).	42	M ²	30,000.00	1,260,000.00		
C	Allow for at least 8 steps and 8 ramps as (indicated in the drawings or to be otherwise directed by responsible Engineer) to the market including 230 mm thick walling, filling with hardcore and provision of stable and firm top surface.	1	Item	700,000.00	700,000.00		
	TOTAL CARRIED TO SUMMARY ON PAGE I/S/1						
	ELEMENT No. 8						
	PLUMBING AND ENGINEERING INSTALLATIONS						
	SANITARY APPLIANCES						
	Supply and fix the following sanitary appliance to "Armitage shanks" references or other equal and approved complete with matching brackets as necessary for fixing to wall or floor as appropriate.						
A	635 x 455mm white vitreous China hand washbasin complete with two 12mm chromium plated pillar taps, 32mm bottle trap with 75mm deep seal, plastic plug with chain and stay including a separate soap dish.	20	No.	180,000.00	3,600,000.00		
B	White vitreous China squatting type W.C. suite comprising of 9 litres capacity cistern with cover, 12mm plastic siphon fittings, side supply and over flow set.	6	No.	360,000.00	2,160,000.00		
C	Toilet roll holder brass type size 150 x 150mm with wooden rollers and fixing to tiled background requiring plugging.	6	No.	25,000.00	150,000.00		
D	610 x 450mm polished plate glass mirror holed for and including 4 No. brass screws plugged to wall and finished with dome shape plate cover.	3	No.	20,000.00	60,000.00		
E	150 x 150 x 6mm White glazed ceramic wall tiles	220	M2	20,000.00	4,400,000.00		

	TESTING				-		
F	Allow for testing the whole of plumbing and engineering installation to the satisfaction of the responsible Engineer.	1	Item	500,000.00	500,000.00		
G	Allow for Builders works in connection with plumbing and engineering installation including establishing holes and cutting chase to block walls for small pipes and larger pipes including making good.	1	Item	500,000.00	500,000.00		
TO COLLECTION ON PAGE 2/I/8/2							
ELEMENT No. 9							
EXTERNAL WORKS							
MANHOLES							
A	Manhole comprising 50mm concrete grade 10 blinding, 200mm thick concrete grade 15 bed, 230mm solid block walls, 150mm thick concrete grade 20 cover slab perforated for and including cast iron cover and reinforced with 10mm mild steel bar at 150mm centres both ways, 15mm cement and sand (1:4) render internally, average 75mm thick cement and sand (1:4) benching to form invert layout, galvanized steel irons as necessary and including all formwork, excavation, filling and dispose of surplus spoil, internal size 600 x 600mm x varying depths as dictated by site conditions.	15	No.	100,000.00	1,500,000.00		
SEPTIC TANK							
B	Allow for construction of standard septic tank (as per drawings provided or otherwise instructed by responsible Engineer) complete including all necessary excavations, bed, benching, block-walling, concrete works, plaster and installation of chambers for inlet, outlet and inspection including covers and frames as appropriate.	1	No.	2,000,000.00	2,000,000.00		
SOAK AWAY PIT							
C	Allow for construction of standard soak away pit (as per drawings provided or otherwise instructed by responsible Engineer) complete including all necessary excavations, concrete and masonry works, finishes, etc. including installation of covers and frames as appropriate.	1	No.	2,000,000.00	2,000,000.00		
DRAINAGE SYSTEM							
D	Excavate and construct 75mm thick BRC reinforced drainage channel of internal dimensions 600mm x 400mm and covered by properly reinforced and cured pre-cast elements. The slope of the drain should be dictated by the existing site conditions and approved by responsible Engineer.	200	Lm	35,500.00	7,100,000.00		
GRAND TOTAL O.P.D					342,866,689.46		



ELEMENT No. 2 PSYCHIATRIC UNIT						
SUBSTRUCTURE, FRAME AND WALLS						
EXCAVATION AND EARTHWORKS						
A	Excavate oversite 150mm deep average depth and remove vegetable soil from site.	103.2	M ²	2.00	206.40	
B	Excavate foundation trench commencing at stripped level and not exceeding 1.50 metres deep	3.1	M ³	6,000.00	18,600.00	
C	Extra over any kind of excavation for breaking up rock and like	1	Item	250,000.00	250,000.00	
D	Earth back filling well rammed and consolidated around foundation	30.5	M ³	4,000.00	122,000.00	
E	Load up surplus excavated material and remove from site	1	Item	300,000.00	300,000.00	
F	Imported filling material well rammed and consolidated in layers not exceeding 150mm thick including excavating in borrow pits to make up levels under floors	1	Item	300,000.00	300,000.00	
DISPOSAL OF WATER						
G	Allow for keeping excavations free from water (except spring or running water) by pumping, baling or by other means necessary (Provisional)	1	Item	200,000.00	200,000.00	
PLANKING & STRUTTING						
H	Allow for the provision and subsequent removal of planking and strutting to uphold and maintain all faces of excavations	1	Item	200,000.00	200,000.00	
* TO COLLECTION ON PAGE # 2/II/1/4						
Concrete Work						
A	Plain insitu concrete grade '7.5' (1:4:8)					
	75mm Blinding to strip foundation bases	0.3	M ³	80,000.00	24,000.00	
	Reinforced insitu concrete grade 20 (1:2:4) including tamping around mesh reinforcement					
	230mm thick strip foundation					
	Reinforced insitu concrete grade '25' (1:1¹ / including vibrating around reinforcement.					
B	150mm thick slab casted to slope and holed to facilitate drainage of water	1.8	M ³	150,000.00	270,000.00	
C	Ring Beam	1.0	M ³	150,000.00	150,000.00	
D	Column Bases and upper part of columns	1.2	M ³	150,000.00	180,000.00	
REINFORCEMENT						
	High tensile reinforcement bars grade 460 to BS 4449:1969 standards					
E	8mm diameter bars	54	Kg	1,260.00	68,040.00	
F	12mm Diameter bars to beam and slab	332	Kg	1,300.00	431,600.00	
FORMWORK						
Sawn formwork to:						
G	Vertical sides of and soffits of ring beam	11	M ²	6,000.00	66,000.00	
H	Vertical sides of columns and bases	18	M ²	6,000.00	108,000.00	
WALLING						
	Solid concrete blocks to BS 2028 type 'A' bedded and jointed in cement and sand (1:4) mortar					
I	150mm Wall	7.5	M ²	14,000.00	105,000.00	
TO COLLECTION ON PAGE # 2/III/1/3					2,793,446.40	

	DAMP PROOF COURSE.						
A	500 Gauge polythene damp proof membrane laid over blinded hard core (measured separately).	60	M ²	1,500.00	90,000.00		
B	Hessian based bitumen damp proof course to Bs type 'A' to 230mm wide laid horizontally on block wall.	69	M	1,400.00	96,600.00		
	SUNDRIES						
C	12mm Cement and sand (1:4) external rendering to concrete or block work.	28	M ²	6,000.00	168,000.00		
D	Prepare and apply two coats black bituminous paint on rendered walls externally.	28	M ²	8,000.00	224,000.00		
	TO COLLECTION ON PAGE # 2/III/1/4				578,600.00		
	ELEMENT NO.2						
	DOORS						
A	50x150 mm Hardwood doorframe sizes 900x2400mm over rall height with 300mm high vent for light inhencement and ventilation.	14	No.	150,000.00	2,100,000.00		
B	22x42mm Hard wood arch trave in all door frames	14	No.	12,000.00	168,000.00		
C	Paneled door 40mm thick single leaf sold hard wood door size 850x2100mm high with complet all necessary iron mongery	14	No.	180,000.00	2,520,000.00		
	TO COLLECTION ON PAGE # 2/III/1/5				4,788,000.00		
	ELEMENT NO.3						
	WINDOWS						
A	50X100mm Hardwood Mninga window frames of size 50x2700mm partitioned to form five(5) panels of size 400x500mm and covered externally by mosquito gauze and redoxide painted (in two coats) expanded metal wire mesh for prevention of insects and enhancing ventilation.	4	No.	150,000.00	600,000.00		
B	50X100mm Hardwood Mninga window frames of size 50x2250mm partitioned to form four(4) panels of size 400x500mm and covered externally by mosquito gauze and redoxide painted (in two coats) expanded metal wire mesh for prevention of insects and enhancing ventilation	4	No.	150,000.00	600,000.00		
	TO COLLECTION ON PAGE # 2/III/1/6				1,200,000.00		
	ELEMENT No.4						
	ROOF						
	ROOF COVERINGS						
	28 Gauge type IT6 colour coated aluminium industrial troughed roofing sheets as manufactured by the ALUCO Division of Aluminium Africa Ltd. P.O. Box 9293 Dar es Salaam or other equal and approved by the responsible District Engineer laid with one and a half corrugations side laps and at least 250mm end laps fixed to timber purlins with galvanized steel and bitumen or plastic washers and neoprene caps to bolts.						

A	Roof covering, sloping not exceeding 45 degrees from horizontal	72.5	M2	10,550.00	764,875.00		
B	Ditto for Ridge Capping by IT6 Gauge 28	14	Lm	4,100.00	57,400.00		
	ROOFING STRUCTURE				-		
	TIMBER AND STEEL FOR ROOF STRUCTURE WORK				-		
C	50 x 100mm treated soft wood for rafters.	63	Lm	2,000.00	126,000.00		
D	50 x 100 mm treated soft wood joists	43	Lm	2,000.00	86,000.00		
E	50 x 100 mm treated soft wood for struts.	54	Lm	2,000.00	108,000.00		
F	75 x 100 mm treated soft wood for purlins.	25	Lm	2,400.00	60,000.00		
G	50 x 150 treated soft wood for fascia boards chamfered at one edge.	48	Lm	2,600.00	124,800.00		
H	50X6X600mm long flat bar with holes for 16mm diameter bolt one end casted into concrete	16	No.	12,500.00	200,000.00		
I	16mm bolts 200mm long with nuts and washers .	16	No.	1,800.00	28,800.00		
	TO COLLECTION ON PAGE # 2/III/1/7				1,555,875.00		
	ELEMENT NO. 5						
	FINISHING INTERNAL						
	FLOOR FINISHINGS						
	Cement and sand (1:4) screeds and backings						
A	40mm Thick cement and sand backing to receive floor surfacing material (measured separately)	60	M2	6,000.00	360,000.00		
	Floor on prepared screed						
B	Smoothly prepared and steel trowelled floor finishing	60	M2	6,000.00	360,000.00		
C	15mm to walls	416	M2	6,000.00	2,496,000.00		
	Cement and sand (1:4) screeds and backings						
D	15mm to walls Backings to receive ceramic wall tiles (measured separately)	60	M2	6,000.00	360,000.00		
	Tiles,slab or block finishings						
E	150x150x6mm White glazed ceramic wall tiles	60	M2	20,000.00	1,200,000.00		
F	Tyrolean renderin two coats with cement finishing to the responsible District engineers approval 22mm Thick rendering to walls	36	M2	6,300.00	226,800.00		
	TO COLLECTION PAGE 2/11L5/2				5,002,800.00		
	ELEMENT NO.6						
	PLUMBING AND ENGINEERING INSTALLATIONS						
	SANITARY APPLIANCES						
	Supply and fix to approved standard the following sanitary appliance to "Armitage shanks" references or other equal and approved complete with matching bracket as necessary for fixing to wall and/or floor as appropriate						
A	635X455 WHITE VITREOUS China hand washbasin complete with two 12mm chromium plated pillar taps,32mm bottle trap with 75mm deep seal,plastic plug with chain stay including a separate soap dish.	4	No.	170,000.00	680,000.00		
B	White vitreous China squatting type W.C. with integral treads suite comprising type W.C. with integral treads suite comprising of 9litres capacity cistern with cover,12mm.plastic siphon fittings,side supply,over flow set and P trap outlet.	6	No.	325,000.00	1,950,000.00		

C	Toilet roll holder brass type size 150x150mm with woodern rollers and fixing to tiled background requiring plugging.	6	No.	17,000.00	102,000.00		
D	610X450mm polished plate glass mirror holes for and including 4No.brass screws plagged to wall and finished with dome shape plate cover	4	No.	25,000.00	100,000.00		
SANITARY APPLIANCES (cont.)							
E	Bucket type shower tray with 100mm C.P. rose and a	4	No.	180,000.00	720,000.00		
F	Allow for waste and overflow pipes as well as soil ar	1	Item	100,000.00	100,000.00		
G	Concrete urinal slab size 3.00metres long x 1000mm high with automatic siphon flash half round channel	4	No.	170,000.00	680,000.00		
H	Allow for cold water installation of storage facilities including rain water harvesting and distribution as directed by the responsible District Engineer	1	Item	1,200,000.00	1,200,000.00		
TESTING							
I	Allow for testing the whole of plumbing and engineering installation to the satisfaction of the responsible District Engineer.	1	Item	100,000.00	100,000.00		
Builders work in connection with plumbing and engineering installation							
J	Hole 150mm block wall for small pipes and make good	1	Item	150,000.00	150,000.00		
K	Ditto for large pipes ditto	1	Item	150,000.00	150,000.00		
L	Cut chase in block wall for small pipes and make good	1	Item	100,000.00	100,000.00		
TO COLLECTION ON PAGE NO 2/11/6/3					6,032,000.00		
ELEMENT NO.7							
EXTERNAL WORKS							
MANHOLE							
A	Manhole compising 50mm concrete grade 10 blinding,200mm thick concrete grade 15 bed,230mm solid block walls,150mm thick concrete grade 20 cover slab perforated for and icluding cast iron cover and reinforced with 10mm mild steel bar at 150mm centres both ways,15mm cement and sand (1:4) benching to form invert layout,galvanized steel ironss as necessary and including all formworks,excavation,filling and dispose of surplus spoil,internal size 600x600mmx varying depths as dictated by site conditions.	7	No.	100,000.00	700,000.00		
SEPTIC TANK							
B	Allow for constructoin of standard septic tank (as per drawings provided or otherwise intructed by responsible District Engineer) complete including all necessary excavation,bed,benching,block walling,concrete works,plaster and installation of chamber for inlet,outlet and inspection including covers and frames as appropriate.	1	No.	1,800,000.00	1,800,000.00		

C	SOAK AWAY PIT						
---	---------------	--	--	--	--	--	--

	Allow for construction of standard soakaway pit (as per drawings provided or otherwise instructed by District Engineer) complete including all necessary excavations, concrete and masonry works, finishes, etc. including installation of covers and frames as appropriate.	1	No.	1,800,000.00	1,800,000.00		
	TOTAL CARRIED TO SUMMARY OF ELEMENTS ON PAGE 11/S/1				4,300,000.00		
	ELEMENT No.8						
	DECORATIONS						
	INTERNAL						
	Prepare surfaces and apply one undercoat and two finishing coats of Robbilac (eggshell) White B/N. 191 plastic emulsion paint to						
A	Plastered wall surfaces and ring beam	132	M2	8,000.00	1,056,000.00		
	Prepare surfaces and apply two finishing coats of Robbilac Tobacco gross paint to						
B	400mm high Skirting to plastered walls	45	M2	8,000.00	360,000.00		
	EXTERNAL						
	Prepare surfaces and apply one undercoat and two finishing coats of Robbilac Weather-guard Acrylic Emulsion Bamboo emulsion paint to:						
C	Rendered walls	80.5	M2	9,000.00	724,500.00		
	Prepare surfaces and apply one undercoat and two finishing coats of Bitumen gloss oil paint to:						
D	Foundation wall and other surfaces to be directed by responsible District Engineer.	30	M2	8,000.00	240,000.00		
	Knot prime stop and prepare and apply one coat of wood primer and two finishing coats of gloss oil paint to;						
E	Fascia board 50 x 150mm wide	48	Lm	10,000.00	480,000.00		
	TOTAL CARRIED TO SUMMARY OF ELEMENTS ON PAGE 11/S/1				2,860,500.00		
	Concrete Work						
	Plain insitu concrete grade '7.5' (1:4:8)						
A	75mm Blinding to foundation bases	0.3	m ³	80,000.00	24,000.00		
	Reinforced insitu concrete grade 20 (1:2:4) including tamping around mesh reinforcement						
	Reinforced insitu concrete grade '25' (1:1¹ / including vibrating around reinforcement.						
B	150mm thick slab casted to slope and holed to facilitate drainage of water	1.8	m ³	150,000.00	270,000.00		
C	Ring Beam	1.0	m ³	150,000.00	150,000.00		
D	Column Bases and upper part of columns	1.2	m ³	150,000.00	180,000.00		
	REINFORCEMENT						
	High tensile reinforcement bars grade 460 to BS 4449:1969 standards						
E	8mm diameter bars	54	kg	1,260.00	68,040.00		
F	12mm Diameter bars to beam and slab	332	kg	1,300.00	431,600.00		
	FORMWORK						

	Sawn formwork to:						
G	Vertical sides of and soffits of ring beam	11	M2	6,000.00	66,000.00		
H	Vertical sides of columns and bases	18	M2	6,000.00	108,000.00		
	WALLING						
	Solid concrete blocks to BS 2028 type 'A' bedded and jointed in cement and sand (1:4) mortar						
I	150mm Wall	7.5	M2	14,000.00	105,000.00		
	TO COLLECTION ON PAGE # 2/III/1/3				1,402,640.00		
	ELEMENT No. 2						
	DOORS						
A	Provide and fix 1500 x 750 mm high Steel Fabricated Door by red-oxide painted (in three coats) 16mm bars spaced at 100mm in both directions and joined by welding, complete with appropriate hinges and other ironmongery items required for enabling the door to function properly and fulfill the intended purpose.	2	no.	50,000.00	100,000.00		
	TOTAL.CARRIED TO SUMMARY OF ELEMENTS ON PAGE III/S/1				100,000.00		
	ELEMENT No. 3						
	ROOF						
	ROOF COVERINGS						
	28 Gauge type IT6 colour coated aluminium industrial troughed roofing sheets as manufactured by the ALUCO Division of Aluminium Africa Ltd. P.O. Box 9293 Dar es Salaam or other equal and approved by the responsible District Engineer laid with one and a half corrugations side laps and at least 250mm end laps fixed to timber purlins with galvanized steel and bitumen or plastic washers and neoprene caps to bolts.						
A	Roof covering, sloping not exceeding 45 degrees from horizontal	25.75	M ²	10,550.00	271,662.50		
B	Ditto for Ridge Capping by IT6 Gauge 28	5.15	LM	4,100.00	21,115.00		
	ROOFING STRUCTURE				-		
	TIMBER AND STEEL FOR ROOF STRUCTURE WORK				-		
C	50 x 75mm treated soft wood for rafters.	14.5	LM	2,000.00	29,000.00		
D	50 x 75 mm treated soft wood for Tie Beam	9.5	LM	2,000.00	19,000.00		
E	50 x 75 mm treated soft wood for struts.	2.8	LM	2,000.00	5,600.00		
F	50 x 75 mm treated soft wood for purlins.	31	LM	2,000.00	62,000.00		
G	25 x 150 treated soft wood for fascia boards chamfered at one edge.	20.5	LM	7,500.00	153,750.00		
H	Supply and fix 2000mm long 100 mm Diameter CHS black pipes painted with Red oxide in three coats, welded with 150 x 150 x 8mm thick plates to one end to be casted in concrete and welded to U-shaped 8mm thick plate of sizes 75mm deep x 100 mm long for supporting the roof structure and to be fixed by flat bar with holes for 16mm Diameter bolts or otherwise another alternative approved by responsible Resident Engineer for fixing the trusses.	6	NO.	50,000.00	300,000.00		
	TO COLLECTION ON PAGE # 2/III/3/2				862,127.50		

	ELEMENT No. 4						
	FINISHINGS						
	INTERNAL						
	FLOOR FINISHINGS						
	Cement and sand (1:4) screeds and backings						
A	40mm Thick cement and sand backing smooth trowelled	12.0 M ²	6,500.00	78,000.00			
	WALL FINISHINGS						
	Internal lime plaster or of other approved material in two coats steel trowelled to a smooth						
B	15mm to walls	15 M ²	5,000.00	75,000.00			
	EXTERNAL						
	Tyrolean render in two coats with cement finish to the responsible District Engineer' approval						
C	22mm Thick rendering to walls	15 M ²	6,500.00	97,500.00			
	TOTAL CARRIED TO SUMMARY OF ELEMENTS ON PAGE III/S/1				250,500.00		
	SUB TOTAL				227,847,442.50		
	ADD PROVISIONAL SUMS				10,000,000.00		
GRAND TOTAL					237,847,442.50		





