PRESIDENT'S OFFICE REGIONAL ADMNISTRATION AND LOCAL GOVERNMENT



BILL OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF INTENSIVE CARE UNIT BUILING

GENERAL SUMMARY

GENERAL DESCRIPTIONS	AMOUNT
BILL No 01 - PRELIMINARIES	
BILL No 02 - SPECIFICATIONS	
BILL No 03 - MEASURED WORKS {ICU BLOCK}	
BILL No 04 - PRIME COSTS AND PROVISIONAL SUMS	
SUB-TOTAL	
INSURANCE CLAUSES:	
. Clause 13 - Contractor to maintain in joint names of the Employer and Contractor, Insurance Against Loss and Damages to the works by fire, earthquakes, etc.	
. Clause 54 - Performance Security	
SUB-TOTAL (1)	
ADD: 18% Value Added Tax (VAT)	
SUB-TOTAL (2)	
AMOUNT CARRIED TO FORM OF TENDER TShs.	
Signed by For and on behalf of	
In the capacity of made this da	ay of 2021

NOVEMBER 2021 GS/1 PO-RALG

ITEM	DESCRIPTIONS OF WORKS	TSHS.
	DESCRIPTION OF SITE:	
A.	The site is located District/Councils WITHIN TANZANIA COUNTRY	
B.	The Contractor shall provide and maintain any necessary temporary roads; sleeper tracks; and temporary cross over during the execution of the works; clear away the same at completion and reinstate and make good any work disturbed to the satisfaction of the Local Authority and the Employer.	
C.	The Contractor shall be deemed to have visited the site and satisfied himself as to: i) The nature of the site	
	ii) The amount of bush; rubbish or debris to be cleared away before. commencement.	
	iii) The nature of proximity and size of adjoining building and property.	
	iv) The nature of existing communications by roads or otherwise.	
	v) The means of access to the site.	
	vi) The availability of land for the erection and positioning of all temporary structures; plant and materials necessary for the execution of the works.	
	vii) The source of adequate supplies of labour, plant and materials for the completion of the works.	
D.	If the Contractor wishes to execute trial holes before submitting his tender; he may do so in positions to be agreed with the Employer and at his sole expenses; including the reinstatement of the ground if so required by the Employer.	
E.	The whole of the site will be available to the Contractor immediately upon the issue of the order to commence.	
F.	Any sand; aggregate to or other building materials shall be the property of the Employer and shall not be used in the construction of the works without the written consent of the Employer.	
E. F. G.	The Contractor is to satisfy himself as to any difficulties that the site may present and to make all necessary enquiries to any point which in his opinion requires further elucidation as no claim for lack of information on any of the above will be entertained.	
	TO COLLECTION TSHS.	

ITEM	DESCRIPTIONS OF WORKS	TSHS.
A.	DESCRIPTION OF WORKS: The work within this contract comprises of: Substructure, Frames ,Walls,ramp,Stairs, Roof, Doors, Windows, Service Engineering, Finishings, Decorations and External Works on Construction of Intensive Care Unit Building	
B.	SINGULAR AND PLURAL Word importing the singular only also includes the plural.	
C.	LAW GOVERNING CONTRACT The contract shall be in all respect to be constructed and operated in accordance with the law of Tanzania.	
	METHOD OF MEASUREMENT:	
D	These Bills of Quantities have been prepared in accordance with the standard method of measurement of Building Works for East Africa first edition (metric) published by the architectural association of Kenya chapter of Quantity Surveyor Act; 1970; and applied equally to the measurement of proposed works and of variations by Quantity Surveyors.	
Е	Variation of 'Builder's Work' will be subject to the same amended rates of percentage of adjustment.	
	DEFINITIONS OF ABBREVIATIONS:	
F	The Contractor should take due notice of the under mentioned abbreviations:- mm - millimetres cm - centimetres M³ - cubic meters M² - square metres M - linear metres No - Number Kg - Kilograms P.C - Prime cost	
G	The Contractor shall allow for keeping all records appertaining to the work and shall keep on the site a daily diary recording weather conditions; temperature; visitors to the site, etc.	
Н	The Contractor is to supply to the Employer such information as he may be required in connection with the work; including statement showing the number of men employed in all trades daily; and delivery notes (stating the name of the project) for all materials delivered to the site.	
	TO COLLECTION TSHS.	

ITEM	DESCRIPTIONS OF WORKS	TSHS.
A.	EMPLOYER'S INSPECTION: No work shall be covered up until it is inspected and approved by the Employer.	
В.	The Employer may at any time before the end of defects liability period or during any extended time where any defect are being made good, instruct the Contractor to open up; pull down; test or expose any part of the works in order to satisfy himself as to the quality of materials or workmanship used. If in the opinion of the Employer such parts are not in strict accordance with the contract documents he may order the Contractor to remove all defective work, replace with approved materials and reinstate any such part of the works and any other disturbed at his own expenses and to the entire satisfaction of the Employer. If any such parts of the works are found to be in accordance with the contract documents the Contractor will be reimbursed with the General conditions of contract.	
C.	DISTURBANCE OR NUISANCE: The Contractor shall allow for taking all necessary precautions in the order and execution of the work so as to avoid causing disturbance or nuisance to the occupants of existing buildings and those adjacent to the works and for complying with the Employer's instructions in this respect. The Contractor shall be in tort for such nuisance and shednets.	
D.	TRESPASS, DAMAGE AND CARE OF WORKS: The Contractor shall prevent any trespass on the opinion adjoining property and he shall take all reasonable precautions during the progress of the contract to prevent any damage to the adjoining property or plant or private roadways and to prevent material; plant; rubbish and debris; etc. collecting on the adjoining property or roadways.	
E.	Should the Contractor wish to erect scaffolding or to make use of adjoining property; he shall obtain prior permission from the Employer and clear away at a completion of his work or when directed and make good any damage to his satisfaction. Except as provided for in the General conditions of contract; the Contractor; shall be held responsible for the care of works generally until their completion; including all works executed and materials deposited on the site by himself or his Sub-Contractors or supplier together with all risks arising from weather; carelessness of operatives; damages and he shall make good all such damage or loss at his own expense	
F.	The Contractor shall be responsible for the protection of any adjacent building; boundary walls; fences; services either overhead or underground and for the making good of or paying for all damage thereto; should such be caused in the course of building operations.	
G.	The Contractor shall allow for making good all damage to the road; kerbs; surface water channels; etc. occasioned by heavy traffic; delivery of materials and building operations generally to the entire satisfaction of the Employer and shall be responsible for observing any by law of Local Authority regarding keeping the road free from mud; filth dirt; etc, out of the execution of the works.	-
	TO COLLECTION TSHS.	

ITEM	DESCRIPTIONS OF WORKS	TSHS.
	PROTECTION FROM THE WEATHER:	
A.	The Contractor shall allow for covering up and protecting all new work from injury by weather or any other cause. Any damage; loss or expense caused by non-compliance with the clause shall be at sole risk of the contract.	
B.	TOOLS, PLANT AND SCAFFOLDING: Provide all necessary cranes, hoists, concrete mixer and other plant including ladder, staging, access gangways tackle, tarpaulins, tools, moulds templates and other requisites necessary for proper executing, adapting from time to time as may be necessary and maintain all plant and equipment during the course of the contract.	
C.	The Contractor shall allow for providing adapting from time to time as may be necessary and maintaining all scaffolding scaffold boards and temporary staging, etc, necessary for the execution of the works.	
D.	The Contractor is to provide everything necessary for the proper execution of the works according to the true intent and meaning of the drawings; etc. whether the same may or may not be particularly shown on the drawings; specifications provided that the same is reasonably to be inferred there from.	
_	SITE ACCOMODATION:	
E.	The Contractor shall provide and maintain any necessary temporary office accommodation required by himself and his Sub-Contractors suitably equipped with desks; chairs; drawing boards; and electric lighting and telephone.	
F.	The Contractor shall provide and maintain for his workers latrine facilities washing and drinking water, first aid equipment's and shelters equipped with tables; benches and checking facilities all to the reasonable satisfaction of the workers and approved by the Employer and Health Authorities.	
G	The Contractor shall provide and maintain any temporary storage, shed or buildings which in his opinion are necessary for himself and his Sub-Contractors for the execution of the works.	
н	WATER FOR THE WORKS The Contractor shall allow for all necessary clean fresh water for the works, including that required by Sub-Contractors and for any temporary plumbing metres and storage facilities and pay all charges in connection therewith and clear away on completion and make good works disturbed.	
J	The Contractor shall allow for providing and maintaining a temporary electricity supply for the works including that required by Sub-Contractor and for any meters and fittings to give artificial lighting and power necessary for the execution of the works and pay all charges, in connection and make good all works disturbed.	
	TO COLLECTION TSHS.	

ITEM	DESCRIPTIONS OF WORKS	TSHS.
A.	WATCHING AND LIGHTING:	
ζ.	The Contractor shall allow for providing and maintaining any barriesrs; hoalding; watching; lighting which must comply with the By-laws of requirements of the Local Authority and polycy regulations and the Contractor must give all requiste policies to those authorities and provide everything necessary to protect the general public workmen; plant; materials and the whole of the works	
B.	No advertisement will be permitted without the written authority of the Employer.	
C.	SIGN BOARD: The Contractor shall provide and erect a large sized sign board on the site showing the title of the contract, the name and address of the Employer; consultant, nominated suppliers and Sub-Contractor and such information as may be required by the Employer who shall provide the sign layout and colours of the Board. The board shall be repainted when necessary and removed when no longer required.	
D.	PROTECTION: The Contractor is required to protect works section until completion.	
E.	TESTING: Allow for testing all the installations required to be tested and provide everything necessary for this purpose and leave the whole in perfect working order to the satisfaction of the Employer and Local Authority.	
F.	REMOVING RUBBISH AND CLEANING:	
F.	The Contractor shall make good all defects and injuries to the works, clean down external faces wash off stains to face work, clean off marks mortar and cement, clean windows inside and out, scrub floors, flush drains run and leave all parts of the works clean, free from rubbish and waste materials and perfect on completion.	
G.	The Contractor shall clean and cart away all rubbish as it accumulate and keep the works in orderly condition to the satisfaction of the Employer	
	TO COLLECTION	
	COLLECTION	
	Page No. 8/1/1	
	Page No. 8/1/2	
	Page No. 8/1/3	
	Page No. 8/1/4	
	Page No. 8/1/5	
	BILL No. 01- PRELIMINARIES CARRIED TO GENERAL SUMMARY	

COUNCIL HOSPITALS NTENSIVE CARE UNIT BUILDING

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BILL NR. 3- MEASURED WORKS				
	ELEMENT NO. 1 - SUBSTRUCTURE				
	EXCAVATION AND EARTHWORK				
A	Site clearance of small trees, shrubs and the like including grubbing up roots	436	m²		
В	Excavating Surfaces to reduce levels average 150mm deep vegetable soil and remove from site	436	m²		
	Trenches in natural ground; to receive foundations; starting from reduced level				
С	Not exceeding 1.50 meters deep	99	m³		
	Pits; to receive foundations; starting from stripped level				
D	Not exceeding 1.50 meters deep	13	m³	-	-
Е	Extra over all kinds of excavations irrespective of depth for breaking up rock	1	m³		
F	Backfilling depositing and compacting in layers maximum 150mm thick imported materials around foundation	48	m³		
G	Remove away from the site surplus excavated materials	64	m³		
	<u>Disposal of water</u>				
н	Keeping all excavation free from all water by pumping, bailing or others means necessary including spring or running water		Item		
	Plunking and Strutting				
J	Allow for provision and subsequent removal for plunking and strutting to uphold and maintain all forces of excavation		Item		
	To Collection				

COUNCIL HOSPITALS NTENSIVE CARE UNIT BUILDING

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
А	Filling Sand filling in making up levels; average 200 mm thick	41	m³		
	Hardcore and the like				
В	150 mm thick beds;levelled compacted and blinded to receive damp proof membrane	325	m²		
	Soil Sterilization				
С	Chemical anti termite treatment around the building plinth	99	m		
D	Aldrin' solution applied at a rate of 7 litres per square metre	325	m²		
	Concrete works Insitu concrete plain grade 10' mix ratio (1:4:8)				
E	50mm Thick blinding	8	m²		
	Plain in-situ concrete; grade 15N/sq.mm nominal mix (1:3:6)				
F	100mm Bed	325	m²		
G	Ditto to Ramp	30	m³		
Н	Steps	1	m³		
J	Strip foundation	18	m³		
	Vibrated Reinforced in-situ concrete; grade 20 nominal mix (1:2:4)				
К	Column bases	4	m³		
L	Plinth beam	9	m³		
М	Columns Reinforcement; bars; BS 4449:1969 hot rolled round high yield steel straight or bent	1	m³		
N	16mm Diameter bars	508	kg		
Р	12mm Diameter bars	280	kg		
Q	8mm Diameter bars	312	kg		
	To Collection	<u> </u>			

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Sawn tormwork to				
А	Vertical sides of columns;	8	m²		
В	Vertical sides of plith beam	78	m²		
С	Vertical edge of bed,and the like over 75mm but not exceeding 150mm high	77	m		
D	Ditto to Ramp edge ditto	13	m		
E	Ditto to Steps 150mm high	12	m		
	<u>Walling</u>				
	Concrete block B.S 2028 type A; 3.5N per square millimetre; solid in cement sand mortar (1:4)				
F	230mm Thick wall	101	m²		
	Damp-proof Courses (DPC)				
G	230mm Wide Hessian based bitumen laid horizontally on solid blockwork	131	m		
	Damp-proot Membrane (טארש)				
Н	500Gauge polythene sheet laying on blinded hardcore with 150mm sides and end laps	325	m²		
	<u>Sundries</u>				
J	12mm Cement and sand (1:3) external rendering to concrete block wall	50	m²		
K	Prepare and apply two coats of black bituminous paint on rendered or concrete surfaces, externally				
	,	50	m²		
	<u>To Collection</u>				
	COLLECTION				
	Page 2/1/1				
	Page 2/1/2				
	Page 2/1/3				
	ELEMENT NO. 1 - SUBSTRUCTURE CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 2 - FRAME				
	Concrete work				
	Vibrated Reinforced in-situ concrete; grade 20 nominal mix (1:2:4)				
А	Beams; horizontal or sloping not exceeding 15 degrees from horizontal	11	m³		
В	Columns	3	m³		
С	150mm thick suspended roof slab	10	m²		
D	150mm thick suspended roof gutter	65	m²		
E	150mm thick suspended gutter side walls	80	m²		
	Reinforcement; bars; BS 4449:1969 hot rolled round high yield steel straight or bent				
F	16mm Diameter bars	200	kg		
G	12mm Diameter bars	1720	kg		
Н	8mm Diameter bars	335	kg		
	Sawn formwork to.				
J	Vertical sides of column	25	m²		
K	Horizontal sides and soffites of beams	119	m²		
L	To soffits of roof slab	10	m²		
М	To soffits of gutter	64	m²		
N	To sides of walls	160	m²		
	ELEMENT NO. 2 - FRAME CARRIED TO				
	SUMMARY				

NOVEMBER 2021 3/2/1 PO-RALG

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO4: WALLS				
	Block Work				
	Internal wall				
	Solid Concrete block B.S 2028 type A; with strength 5MPa bedded and jointed in cement sand mortar(1:4)				
Α	150mm Wall	181	m²		
	External wall				
	Solid Concrete block B.S 2028 type A; abd above.				
В	230mm Wall	265	m²		
С	250x100mm window cill	3	m		
	Metal Work/Partitions Works				
	Powder coated 'Malt charcoal glazed Aluminium partitions to Architects design and approval, neoprene gaskets for bedding nylon brusher at head meeting stiles,and rails and stainless steel screw approved by Architect complete with 6mm single clear glass 1800mm high up to ceiling level after 1000mm high blockwall from floor finished level including bedding in approved compound and fixing to concrete background				
D	Partition with frame filled inwith 6mm glass as per detailed Architeral drawings with 3Nr.of doormeasured separately (matchiteral drawings) aluminium doors to pattern neoprene gaskets for bedding nylon brusher at head meeting stiles, stainless steel screws and all necessary ironmongery, to approval of Architect including bedding in approved compound in concrete background	22	m²		
E	40mm Thick door size 1200 x 2100mm high double swing door divided into two panels comprising of 40 x 70mm stiles, top, middle and bottom rail, lower panel filled in with and including 6mm thick MDF board 1000mm high infill, upper panell filled in with and including 6mm thick clear glass, complete with overhead door closer and other necessary ironmongery ELEMENT NO4: WALLS CARRIED TO SUMMARY	3	No		

NOVEMBER 2021 3/4/11 PO-RALG

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO 5: DOORS				
	Frames Hardwood materials				
А	50x150mm Frame with one labour	120	m		
В	50x150mm Frame with one labour	15	m		
С	25 x 25mm Glazing beads	42	m		
	Prime Quality Hardwood Paneled Doors				
D	40mm Thick paneled double door size 1500 x 2100mm high comprising of 40x125mm rebated stiles, 40x125mm rebated top, middle and intermediate rail; 40x200mm bottom rail; divided into five panels; four equal vertical panels two on top and two on bottom each size 218x550mm; and a horizontal panel in between size 560x300mm; all panels filled in with and including 40mm thick hardwood boards.	2	No		
_	Ditto cine 1000v2100mm high Double door				
E	Ditto size 1200x2100mm high Double door	1	No		
F	Ditto size 900x2100mm high	2	No		
	Flush door				
G	Doors: formica plastic laminated facing both sides cherry Mkongo or Mninga or equal aproved hardwood lipping to all edges; solid core flush door; formic; storm grey with hardwood edge strip; 45mm thick MDF doors overall size 1500 x 2100mm ,double swing door	1	Nr.		
Н	Ditto but size 900x2100mm Single leaf	12	Nr.		
J	Ditto with size 800x2100mm Single leaf	2	Nr.		
	Ironmongery; supply and fix the following as manufactured by UNION."or other equal and approved to hardwood with matching screws"				
K	150mm Brass butt hinges.	27	Pairs		
L	3 Lever Mortice lock	6	Nr.		
М	Two Lever Mortice lock	14	Nr.		
N	Stainless steel Heavy duty door closer	4	Nr.		
Р	Double Action Swing Hinges for hardwood door approx 25 - 50Kg	6	pairs		
	<u>Clear glass</u>				
Q	5mm thick glass including beads glass over 0.5m ² not exceeding 1.00m ²	15	m²		
	ELEMENT NO 5: DOORS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO 6: WINDOWS				
	Aluminium glazing approved by the Architect;				
	single glazed combination frame and				
	windows, 45 x 50mm Aluminium section				
	framing, all mullions and transomes; epoxy				
	power coat RAL 9006 finish, 6.14mm laminated				
	glass pre assembled with stainless steel plates				
	and screws window ironmongery, glazed beads,				
	fiber mosquito net, rubber gaskets and backer				
	rods and fixing to mansory or concrete grounds,				
	sealing all around with non-hardening EPDM				
	silicone sealant; screws bolts and fasterners				
Α	Window Size 1500 x 1800mm high	2	Nos		
В	Ditto, Size 1500 x 1050mm high	16	Nos		
С	Ditto, Size 900 x 1050mm high	6	Nos		
	Composite items				
	Supply and fix weldable Mild steel to smooth				
	edges window grills comprising of 75 x75 mm				
	RHS framework and braces, 25x25mm				
	top, bottom, vertical and horizontal bars				
	welded to frames spaced at 150mm				
	centre to centre including all paints				
D	Ditto, Size 1500 x 1800mm high	2	Nos		
Е	Ditto, Size 1500 x 1050mm high	16	Nos		
F	Ditto, Size 900 x 1050mm high	6	Nos		
「	Dino, size 900 x 1030mm nigh		1403		
	ELEMENT NO6:WINDOWS CARRIED TO				
	SUMMAKY				

NOVEMBER 2021 3/6/13 PO-RALG

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO.7: ROOFING				
	Sawn soft wood; Impregnated with Preservatives				
Α	50X150mm Tie Beam	276	m		
В	50X150mm Rafters	285	m		
С	50X100mm Kingpost and struts	510	m		
D	50X100mm Wall Plate	99	m		
Е	50X75mm Purlins	473	m		
	Wrot soft wood; 'Podo'				
F	20X250mm Fascia/Barge boards	30	m		
	28 gauge 1T5 corrugated iron roofing sheets fixed to timber purlins with 150mm end laps, 1 1/2 corrugations side laps fixed with roofing nails				
G	Root covering;sloping not exceeding 45 degrees from horizontal	396	m²		
Н	Ridge capping	40	m		
J	Valley capping	12	m		
	Metal Works				
K	16mm Diameter Anchor Bolts	64	No		
L	10mm thick steel plate	32	No		
	Roof drainage:				
М	200mm Diameter UPVC class C rainwater down pipe neck with 710mm projection. With all accessories	32	М		
N	200mm down pipe shoe	8	No		-
Р	200mm Diameter nozzle outlet.	8	No		
Q	Floor drain;200mm diameter/full bora	8	No		
	ELEMENT NO. 07- ROOFING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO8: FINISHINGS				
	Insitu finishings				
	Plastering in two coats steel trowelled to smooth finish internally				
Α	15mm To walls	590	m²		
В	15mm to sides of columns	25	m²		
С	Horizontal sides and opening soffites of beams	108	m²		
D	To soffits of roof slab	10	m²		
E	To soffits of gutter	64	m²		
F	To sides of walls	160	m²		
	Plastering in two coats steel trowelled to smooth finish externally				
G	22mm To walls	265	m²		
	TILES, SLAB OR BLOCK FINISHINGS				
	Glazed ceramic wall tiles with cushion edges to BS 1281 fixed to backings with cement sand mortar and pointing with white cement				
Н	400 x 250 x 6mm Tiling to walls	37	m²		
	Graniti GN 572 Mid Grey porcelain tiles "high quality" bedding in premixed thin set cement mortar and grouting with coloured sandless tile grout				
	600x600x9mm; 4mm diagonally/square joints ways; to floors levels	319	m²		
	400 x400 x 8mm; 4mm diagonally/square joints ways to floor levels of toilets	6	m²		
L	150mm Thick skirting	203	m		
	To Collection				

NOVEMBER 2021 PO-RALG

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUNDRIES				
	Floor edge strips				
Α	GENESIS ESA 10(10mm high) or similar and				
	approved, aluminium straight edge trim; junctions				
	of flooring finishes	31	m		
	Weather Bars				
В	6 x 25mm Brass weather bar strip at external door				
	thresholds; in prepared groove	4	m		
	Beds and Backings				
	Cement and sand (1:4) wood floated surface finish				
С	32mm Bed to receive floor tiles	325	m²		
D	12mm Backing to receive wall tiles	37	m²		
	Gypsum plasterboard BS 1230 Pt. 2 1970 tapered				
	wallboard self tapping galvanized drive screws				
Е	9mm Thick ceiling; horizontal; internal	315	m²		
F	Cornice	203	m		
G	Extra over for ceiling access 600 x 600mm.	1	nr		
Н					
•••	Supply and fix PVC ceiling complete including PVC and				
	corner joint,shoe,nail and accessories	95	m²		
	Sawn softwood pressure impregnated with preservatives				
	Sawii soitwood pressure impregnated with preservatives				
J	50x50mm brandering fixed at 600mm centre to centre	914	m		
Ū					
	Tanga stone or equal and approved other materials				
K	Wall finishing materials to the extrenal façade as				
	per drawings	22	m²		
	To Collection				

NOVEMBER 2021 PO-RALG

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<u>s</u>	LAB TREATMENT				
pe	Vater proofing to exposed surface,concrete treatment for ermanent corrosion free,water/ Moisture proofing by using y using krystol technology				
di kr le cu	throughly clean concrete surfaces to remove all types of irt; fill all visible cracks, honeycombs and holes as per rystol specification. No 1; sand surface to smooth evel, prepare and apply full coat of krystol T2; protect and ure properly as per manufacture's direction and krstol pecification.				
A To	o roof slabs.	10	M^2		
В	o sides and bottom of concrete gutters.	225	M^2		
U	llow sum for LOGO for writting ICU INTENSIVE CARE NIT to respective name of the council Hospital As per levation by using ALUCOBOND Materials		Sum		
	<u>To Collection</u>				
C	OLLECTION				
Pa	age 2/8/1				
Pa	age 2/8/2				
Pa	age 2/8/3				
	LEMENT NO 08: FINISHINGS ARRIED TO SUMMARY				

3/8/17
NOVEMBER 2021
PO-RALG

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 9: PAINTING AND DECORATIONS				
	Internal works				
	Prepare and apply one thinned coat and two full coats of wash 'n' ware paint				
Α	Plastered walls, columns, beams etc	877	m²		
В	Gyspum ceiling	315	m²		
	External works				
	Prepare and apply one thinned coat and two full coats of weather guard paint to				
С	Rendered surfaces	265	m²		
	Varnishing; internal work; prepare and apply three coats of clear polyurethane clear varnish; wood surfaces.				
D	General surfaces	42	m²		
E	Frames, linings and associated mouldings				
	200-300mm girth	120	m		
	ELEMENT NO. 9: PAINTING AND				
	DECORATIONS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 10: SANITARY WARE INSTALLATIONS				
	WASH HAND BASIN				
А	White vitreous wash hand basin (HWB), size 750x440x200mm complete with self closing; semi pedestal and chain stay hole; fairline ½in pillar taps with clear acrylic handles; 1¼in bead chain waste and plug; 80cm slotted tail bolt stay; isovalve servicing valves. rubber plug with slotted tail; 32mm plastic bottle trap with 75mm seal. And other accesories as manufactured by castleware or equal and approved	4	No		
	SLUICE SINKS				
В	B22362 Wall Mounted slop Hopper with Draining Board stainless steel slop hopper manufactured from Grade 304 stainless steel for the efficient and hygienic disposal of waste including draining boards, top slab, intergral flushing rim, standard outlet for PVC sewerage systems Either P-trap or S- trap and the unit must be space -effective as per manufactured to the approval of Project Manager/ Engineer	2	Nr.		
	SOAP DISH				
С	Ceramic soap dish Model A:101 as manufactured by castleware or equal aproved including fixing fixtures, fixed to the wall as per manufacturer recommendations	2	Nr.		
	KITCHEN SINK				
	Stainless steel kitchen single with single drainer complete with tap hole provided on the sink the waste unit as manufactured by castleware: sink Model No. D10050A including all fixing fixtures				
D	Overall size L1000 X W500mm x D180mm bowel size L380 x W330mm	1	Nr.		
	To Collection	<u> </u>			

NOVEMBER 2021 3/10/19 PO-RALG

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
А	WC Eastern type low level W.C suite vitrious china to B.S 3402 s/p-trap, 9litres flushing tank with single push button complete with all necessary accessories. "Casterware"	2	No		
В	TOILET PAPER ROLL HOLDER Wall mounted stainless Toilet paper holder Model				
	BC 70 complete with fixing accessories as manufactured by castleware or equal and approved SHATTAF	2	Nr.		
С	Wall mounted 'trigger spray' shattaf Oasis chrome finish complete with fixingaccessories as manufactured by castleware or equal and approved	2	Nr.		
	BRUSH HOLDER				
D	Toilet brush holder 'model : BC 60 as manufactured by castleware or equal and approved including all fixing fixtures	2	Nr.		
	MIRROR				
Е	600 X 800 X4mm Thick mirror with JX -S501 as per castleware or other approved, fixed on lacquer with double sided self adhesive pads finished with bevelled edges.	2	Nr.		
	FLOOR DRAIN				
F	150 X150mm stainless steel grating ABS flange with adptor or ring complete with kerdin-fix bounding compound, all as to manufacturers recommendations	3	Nr.		
	To Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	COLD WATER INSTALLATION:				
	IPS pipes, Class D painted with special paint; including joints in running length.Fixing in accordance with maufacture's instructions.				
	Distribution pipes: IPS pipes including screwed and socketted joints in running length:				
А	25mm Diameter Polypipe, class D	50	М		
В	19mm Diameter Polypipe, class D	45	М		
С	Extra; elbow	23	No		
D	Ditto connectors	5	No		
Е	Ditto Union	5	No		
F	Ditto Tee	5	No		
G	Ditto Reducing bush 25 x 19mm	5	No		
Н	19 mm Diameter supply IPS pipes; in blockwork chase.	18	М		
J	Extra ditto; elbow	20	No		
К	Ditto tee	10	No		
L	Ditto: Union	10	No		
М	Ditto: Nipple	12	No		
N	Ditto: connector	1	No		
Р	Ditto:tee connector	1	No		
Q	13 mm Diameter supply IPS pipes; in blockwork chase.	12	М		
	<u>To Collection</u>				

ITEM	DESCRIPTIONS OF WORKS	QTY	UNIT	RATE	AMOUNT
А	Extra reducing tee 19×19×13	10	No		
В	Extra; reducing bush 19×13	10	No		
С	Extra; 13mm elbow.	3	No		
D	Ditto; tee.	3	No		
Е	Ditto: Nipple	6	No		
F	Ditto; socket	14	No		
	Flexible piping:				
G	Flexible pipe to cistern	2	No		
н	Flexible pipe to Hand Wash Basin and kitchen Sink	5	No		
J	Flexible pipe to sluice	2	No		
К	Angle valve	4	No		
L	Bib tape pex 1/2	2	No		
М	Pillar tape pex 1/2	4	No		
N	Stop cock pex 3/4	7	No		
	GENERAL ITEMS				
Р	Thread seal tape	5	No		
Q	Shellack	1	No		
R	Tangit	1	No		
S	Bolts pairs 12mm length 100mm or 125mm	4	No		
Т	Fisher plug pairs	22	No		
	TO COLLECTION				

ITEM	DESCRIPTIONS OF WORKS	QTY	UNIT	RATE	AMOUNT
_	UPVC pipes;Class 'E'; including fittings in running length. 38mm Diameter pipe; in chase in block work.	60	M		
A B	Extra; Equal tee 38×38× 38mm.	41	No		
С	Extra; elbow	30	No		
D	Ditto; Plug	6	No		
Е	Extra; tee	15	No		
F	Ditto; bend	2	No		
G	Ditto; socket female thread	5	No		
Н	50mm pipe	40	M		
J	Ditto; bend	2	No		
K	Ditto; socket female thread Plug	4 18	No No		
	SOIL AND PIPES:	10	140		
	UPVC pipes and fittings; Class 'B'; in running lengths; BS 4660 for underground pipes and B.S 3506 for pipes above ground.				
М	50mm. Diameter pipes; fixed to walls.	12	М		
N	100mm Diameter pipes laid in trenches.	48	M		
Р	Extra; 100mm Elbow	2	No		
Q	100mm Diameter PVC vent coil.	1	No		
R	P-Trap 4' Bottle trap flexible 38mm	4 10	No No		
	TO COLLECTION	. 0	0		

NOVEMBER 2021 3/10/23 PO-RALG

ITEM	DESCRIPTIONS OF WORKS	QTY	UNIT	RATE	AMOUNT
	FIRE FIGHTING INSTALLATIONS:				
А	9Kg, dry powder 'NAFFCO' or any other equal and approved fire extinguishers, fixed to wall with and including brackets plugged on block work.	2	No		
В	GULLY TRAPS Construct a standard gully trap 300x300x300mm deep;in thick concrete block walls complete with benching and all fittings and gully trap cover	6	No		
	TESTING				
С	Allow for testing and commisioning the whole plumbing and drainage isntallation as per service Engineer approval		Item	-	
D	Builders work in connection to plumbing	-	Item	-	
	SUNDRIES:				
E	Allow for preparation and production of four (4) copies of 'AS BUILT DRAWINGS' of plumbing and engineering installations to Engineer's satisfaction.	-	Item	-	
	COLLECTION				
	COLLECTIONS				
	Page 3/10/1				
	Page 3/10/2				
	Page 3/10/3				
	Page 3/10/4				
	Page 3/10/5				
	Page 3/10/6				
	ELEMENT NO. 10 SANITARY WARE AND INSTALLATIONS CARRIED TO SUMMARY				

ITEN	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NR.11- ELECTRICAL INSTALLATION				
	Power Distribution.				
А	4Ways TPN distribution board (DB 3) with 100A/300mmA RCCB incomer and outgoing MCBs as shown in Schematic diagram as ABB or approved equal.	1	No		
В	4C x16 mm ² Cu,PVC/PVC cable from neaby Tanesco LV Pole to Distribtion Board(DB 1).	25	Lm		
	Small Power Distribution				
С	25mm Heavy duty PVC Conduity concealed under walls and roof for all power and Data points	100	Nos		
D	Single core 2.5 sqmm PVC copper cables from distribution Boards to all power outlet points Red Wire Black Wire Green Wire	3 3 3	Roll Roll		
Е	Twin switch socket ABB or other equal approved	21	Nos		
F	Telecommunications outlet box	20	Nos		
	Light Fittings				
G	20mm Heavy duty PVC Conduity concealed under walls and roof for all Lighting and DataFire points	180	Nos		
Н	Single core 1.5 sqmm PVC copper cables from distribution Boards to all lighting and ceiling fans outlet points Red Wire Black Wire Green Wire	6 6 6	Roll Roll Roll		
J	TYPE A: 1 x 36W; 1200mm standard, fluorescent fitting as LIGHTING DIRECT PHOENIX	22	Nos		
	TO COLLECTION				-

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
А	56" Blade National Ceilling fan c/w fan regulator	4	Nos		
В	Ceiling light complete with energy saver 18w	13	Nos		
С	2 way 1 gang light switch as Legrand or equivalent	7	Nos		
D	1 way 1 gang light switch as Legrand or equivalent	11	Nos		
Е	100mm diameter heavy gauge PVC Pipe	10	Nos		
F	Allow for earthing of the entire building in accordance with I.E.E. and TANESCO regulations to the whole of electrical installations	1	item		
G	Earth wire 4sqm	20	m		
н	Earth rod approved copper 16mm not less than 1200mm	2	No		
	Air condition				
J	Smart inveter indoor wall mounted fan evaporating units with its outdoor unit, the indoor unit shall be commplete with a wireless remote controller, pipes brackets and connecting cable, coolling capacity 24000BTU/hr	7	No		
К	PVC conduits pipe sleeve class C size 2 inch in the ceiling/blockwall or duct for Airconditions, including Elbow and other connection	m	24		
	<u>To Collection</u>				
	COLLECTION				
	Page 3/11/1				
	Page 3/11/2				
	ELEMENT NO. 11 ELECTRICAL INSTALLATIONS				

ITEM	DESCRIPTIONS OF WORKS	QTY	UNIT	RATE	AMOUNT			
	ELEMENT NR. 12: ICT INSTALLATION							
А	Switch 24-port with Gigabit Uplinks	0	РС					
В	Cat 6 UTP CABLE	1	РС					
С	6U data cabinet wall mounted including all accessories eg. PDU	0	PC					
D	Rack Mountable UPS 1100VA	0	PC					
Е	1m Patch cord	6	PC					
F	3m Patch cord	6	РС					
G	Cat 6 patch panel 24 Port	0	РС					
Н	Cable manager	0	РС					
J	Dual face plate	3	РС					
K	Back Box Single (Steel)	3	PC					
L	Conduit pipe 1.0"	10	РС					
	Sub Total for ICT Materials							
	Add :Labour cost for subtotal 1							
	Add :Profit from Sub total 1							
	Add: Attendance for sub total 1							
	Grand total for Element Nr. 12 ICT Installation carried to Summary Page							

NOVEMBER 2021 3/12/27 PO-RALG

ITEM	DESCRIPTION	PAGE	AMOUNT
	BILL NR.3: MEASURED WORKS ICU BLOCK		
	BILL NR.3. WIEASURED WORKS ICO BLOCK		
	ELEMENT NO. 01 - SUBSTRUCTURE	3/1/3	
	ELEMENT NO. 02 - FRAME	3/2/1.	
	ELEMENT NO. 03 - STAIRS	NA	NA
	ELEMENT NO. 04- WALLS	3/4/1.	
	ELEMENT NO. 05- DOORS	3/5/1	
	ELEMENT NO. 06 - WINDOWS	3/6/1	
	ELEMENT NO. 07 - ROOF	3/7/1.	
	ELEMENT NO. 08 - FINISHINGS	3/8/3.	
	ELEMENT NO. 09 - PAINTING AND DECORATIONS	3/9/1.	
	ELEMENT NO.10- PLUMBING	3/10/6.	
	ELEMENT NO. 11 ELECTRICAL INSTALLATIONS	3/11/2.	
	ELEMENT NR. 12: ICT INSTALLATION	3/12/1.	
	BILL NO.3 - MEASURED WORKS CARRIED GENERAL SUMMARY	T.Shs	

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BILL NR.4: PRIME COST AND PROVISIONAL SUM				
	PROVISIONAL SUM				
А	Construction of Septic tank as instructed by Architect		Sum		
В	Soft and Hard landscaping instructed by Architect		Sum		2,000,000.00
С	Construction of Soak pit as instructed by Architect		Sum		
D	Construction of 10 Nr. Manhole as Per drawings		Sum		
E	Allow sum for construction of counter, including worktop and partition at nurse station/laboratory and any as will be instructed by Project Architect		Sum		6,000,000.00
			ou		3,000,000,00
	DILL ND 4 DO AND DROVIOLONAL CUITO				
	BILL NR.4- PC AND PROVISIONAL SUMS WORK CARRIED TO GENERAL SUMMARY				