



REPUBLIC OF KENYA

MINISTRY OF TRANSPORT INFRASTRUCTURE HOUSING AND URBAN DEVELOPMENT

Department Of Public Works

BILLLS OF QUANTITIES

FOR THE

PROPOSED CONSTRUCTION TO COMPLETION OF RIAKEIRE CHIEF'S OFFICE
DIGITAL ICT HUB IN BOOCHI WARD

BOMACHOGE BORABU CONSTITUENCY

KISII COUNTY

UNPRICED BILL OF QUANTITIES

PREPARED AND ISSUED BY

Ministry Of Public Works
Sub-County Works Officer
P.O BOX 6-40200
KISII



[illegible]

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF RIAKEIRE CHIEF'S OFFICE BASIC DIGITAL ICT HUB IN BOOCHI WARD BOMACHOGE BORABU CONSTITUENCY</u> <u>BILLS OF QUANTITIES</u> <u>SECTION NO. 2</u> <u>ELEMENT NO.1</u> <u>SUBSTRUCTURE</u> - (All Provisional) <u>NOTES</u> - The Tenderer's attention is drawn to the Preliminaries Contract Particulars Clause 8.0 which states that the Standard Method of Measurement is the June 2008 Edition. Per Clause D5(g) of this S.M.M all excavations in this BoQ have been measured NET and no allowance has been made for working space and the tenderer is shall price for the excavations accordingly. - Cement for all Structural Works in these Bills of Quantities shall strictly be Grade 32.5 - Cement for Non-Structural Works in these Bills of Quantities shall be Grade 32.5 - All Reinforcement in these Bills of Quantities shall be to BS 4449:1997 with the following characteristic; a) Grade 460 B high strength type 2 Ribbed bars with proof stress of 460N/mm²; allow for cutting, bending, hoisting and fixing including all necessary trying wires and spacer stools;					
1						
2						
3						
4						

	<u>SUBSTRUCTURES (CONT'D)</u>					
	<u>Excavations & Earthworks</u>					
A	- Excavate to remove top soil average 150mm deep; remove from site	m2	276			
B	Excavate to reduce levels, not exceeding 1.5m deep from stripped level(Av. 400mm deep)	m3	110			
C	Excavate for strip foundations not exceeding 1.5m deep from reduced level	m3	55			
D	Ditto for column bases not exceeding 1.5m deep from reduced level	m3	25			
E	Allow for keeping excavations free from water by baling or pumping as required including provision of drains, etc. as described	Item	1			
F	Allow for maintaining and supporting sides of excavations and for keeping free from fallen materials as described.	Item	1			
	<u>Disposal</u>					
G	Backfilling around foundations & column	m3	46			
H	Load and Cart away surplus spoil	m3	100			
	<u>Imported filling</u>					
I	300mm Thick approved hardcore under floor bed well compacted	m2	190			
J	40mm Thick murram or quarry dust binding to hardcore	m2	190			
	<u>Carried to Collection</u>					

	SUBSTRUTCUTR (CONTINUED)					
	<u>Damp proof membrane as described :-</u>					
	-					
A	1000 Gauge polythene sheet dampproof membrane to horizontal surfaces	m2	190			
	<u>Anti-termite treatment</u>					
B	Chemical anti-termite treatment executed by an approved specialist under a ten-year guarantee to horizontal surfaces of the floor slab and around the plinth, e.t.c.	m2	190			
C	<u>Concrete Class (1:3:6) in 50mm thick blinding under:</u>					
D	Strip foundation for masonry walling	m2	51			
	Column bases	m2	13			
E	<u>Vibrated reinforced concrete class 20 in:</u>					
	Column bases	m3	3			
F	Columns	m3	3			
G	Strip foundation	m3	8			
H	150mm Thick Slab	m2	190			
I	Paving Slabs	m2	60			
	<u>Reinforcement</u>					
	<u>Reinforcement to BS 4449:1997 with the following characteristics; a) Grade 460 B High strength type 2 Ribbed bars with proof strength of 460N/mm2; allow for cutting, bending, hoisting and fixing including all necessary tying wires and spacer stools</u>					
J	D10	Kg	520			
K	D8	Kg	240			
	<u>Carried to Collection</u>					

	<u>SUBSTRUCTURES (CONT'D)</u>					
A	<u>Steel mesh fabric reinforcement to B.S. 4483</u> Ref. A98 Layer of fabric mesh reinforcement laid in bed with 150mm side and end laps	m2	190			
B	<u>Sawn formwork to:</u> Sides of column bases	m2	9			
C	- Sides of column	m2	27			
D	Sides of Strip Foundations	m2	21			
E	Edge of floor beds 150 - 225mm high	m	50			
F	<u>Quarry dressed natural stone walling in cement and sand mortar (1:3) with minimum crushing strength of 7.0 N/mm2</u> 200mm thick walling	m2	90			
G	<u>1000 Gauge polythene sheet damp proof course laid on and including cement sand (1:3) levelling screed</u> 200mm Wide	m	80			
H	<u>Cement sand (1:4) render to :-</u> 12mm Thick render to wall externally	m2	20			
I	<u>Prepare and apply two coats of bituminous paint to :-</u> Rendered walls externally	m2	20			
	<u>Carried to Collection</u>					
	<u>COLLECTION</u>					
	Page No. 2/2					
	Page No. 2/3					
	Page No. 2/4					
	<u>TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY</u>					

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF</u> <u>RIAKEIRE CHIEF'S OFFICE BASIC</u> <u>DIGITAL ICT HUB IN BOOCHI WARD</u> <u>BOMACHOGE BORABU CONSTITUENCY</u> <u>BILLS OF QUANTITIES</u> <u>SECTION NO. 2</u> <u>ELEMENT NO.2</u> <u>RC SUPERSTRUCTURE</u> <u>Concrete Class 20mm in:-</u>					
A	Columns	m3	4			
	<u>Concrete Class 20mm in:-</u>					
B	Beams	m3	8			
	<u>Reinforcement; as before described</u>					
C	D10	Kg	810			
D	D8	Kg	344			
	<u>Sawn formwork to :-</u>					
E	Vertical sides of columns	m2	31			
F	Sides and soffites of beams	m2	20			
	<u>TOTAL FOR RC SUPERSTRUCTURE</u> <u>CARRIED TO SUMMARY</u>					

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF</u> <u>RIAKEIRE CHIEF'S OFFICE BASIC</u> <u>DIGITAL ICT HUB IN BOOCHI WARD</u> <u>BOMACHOGE BORABU CONSTITUENCY</u> <u>BILLS OF QUANTITIES</u> <u>SECTION NO. 2</u> <u>ELEMENT NO.4</u> <u>ROOF CONSTRUCTION, COVERING AND</u> <u>RAINWATER DISPOSAL</u> ROOF CONSTRUCTION <u>The following in sawn softwood timber</u> <u>including fabricating, hoisting and fixing in</u> <u>position approximately 12,000mm above ground</u> <u>level as per Structural Engineer's drawing</u> <u>Sawn Cypress</u> <u>Rates to include all necessary bolting and/or</u> <u>nailing</u>					
A	100 x 50 mm rafters/Struts	m	300			
B	75 x 50 mm Purlins	m	350			
C	100 x 50 mm Wall Plate	m	60			
D	100 x 50 mm Tie Beam	m	100			
	<u>Carried to Collection</u>					

	ROOF (CONTD)					
	<u>Wrot treated prime grade cypress</u>					
A	38mm thick tongued and grooved eaves filling V-jointed and secretly nailed onto and including 50mm x 50mm sawn cypress brackets with mosquito wire gauze in between	m	50			
B	225mm x 38mm thick fascier board fixed onto ends of rafters	m	80			
	<u>ROOF COVERING</u>					
C	Roof covering as GCI Pre painted Sheet roofing gauge 30 including roof vents to suppliers recommendations	m2	280			
D	150mm diameter half round ridge tile to match roof tiles	m	65			
	<u>Prepare surfaces and apply one coat of aluminium wood primer and two finishing coats of gloss oil paint on:</u>					
E	General wood surfaces	m2	15			
F	Wood surfaces 200 - 300mm girth	m	60			
	<u>Carried to Collection</u>					

	ROOF(CONT'D)					
	<u>APP Water - proofing</u>					
A	4mm thick membrane, torch applied as before described, to roof and upstands	m ²	1			
	<u>Rainwater Goods</u>					
B	200mm wide x 200mm deep (600mm girth) PVC gutter fixed onto fascia board with approved mild steel straps at every 1,000mm centers	m	50			
C	Extra over ditto for stopped ends	No.	4			
D	Ditto for forming 150x150mm hole for down pipe	No.	4			
E	150x150mm PVC rain water down pipe fixed onto walls with approved mild steel	m	10			
F	Extra over ditto for swan neck projection with 600mm offset	No.	4			
G	Ditto horse - shoe ditto with 300mm Offset	No.	4			
H	150mm Diameter cast - iron fulbora outlets	No.	4			
	<u>Carried to Collection</u>					
	<u>COLLECTION</u>					
	Page No. 2/10					
	Page No. 2/11					
	Page No. 2/12					
	<u>TOTAL FOR ROOF CARRIED TO SUMMARY</u>					
				KSHS.		

ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
A	<u>PROPOSED CONSTRUCTION OF RIAKEIRE CHIEF'S OFFICE BASIC DIGITAL ICT HUB IN BOOCHI WARD BOMACHOGE BORABU CONSTITUENCY</u> <u>- BILLS OF QUANTITIES</u> <u>- SECTION NO. 2</u> <u>- ELEMENT NO. 5</u> <u>- EXTERNAL WALLS, BALUSTRADES AND GRILLES</u> <u>-</u> <u>Approved local natural stonework; squared and hand dressed;bedded in cement mortar (1:4); reinforced with 25mm wide x 20mm gauge hoop iron strapping every alternate course</u> 200mm Thick walls	m2	170			
	-					
	-					
	<u>- TOTAL FOR EXTERNAL WALLS CARRIED TO SUMMARY</u> -				KSHS.	

ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
A	<u>PROPOSED CONSTRUCTION OF</u> <u>RIAKEIRE CHIEF'S OFFICE BASIC</u> <u>DIGITAL ICT HUB IN BOOCHI WARD</u> <u>BOMACHOGE BORABU CONSTITUENCY</u> <u>BILLS OF QUANTITIES</u> <u>SECTION NO. 2</u> <u>ELEMENT NO. 5</u> <u>INTERNAL WALLS.</u> - <u>Approved local natural stonework/Concrete Blocks; squared and hand dressed;bedded in cement mortar (1:4); reinforced with 25mm wide x 20mm gauge hoop iron strapping every alternate course</u>	m2	50			
	150mm Thick walls					
	- <u>TOTAL FOR EXTERNAL WALLS</u> <u>CARRIED TO SUMMARY</u>				KSHS.	

ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF</u> <u>RIAKEIRE CHIEF'S OFFICE BASIC</u> <u>DIGITAL ICT HUB IN BOOCHI WARD</u> <u>BOMACHOGE BORABU</u> <u>CONSTITUENCY</u> - <u>BILLS OF QUANTITIES</u> - <u>SECTION NO. 2</u> - <u>ELEMENT NO. 7</u> <u>WINDOWS</u> - <u>STEEL WINDOWS</u> - <u>Supply and fix the following purpose made casement windows comprising of 50 x 50 x 16 G and 25 mm "Z" section framing including all coupling mullions etc;and complete with bronze handles ,peg stays and other ironmongery; factory primed with red oxide primer including cutting and pinning fixing lugs to concrete or masonry work jambs ; bedding in cement and sand (1:3) mortar , pointing all round frames in mastic ,easing ,oiling and adjusting opening lights on completion, including 4 mm glazing; All as per the architect's Schedule of windows</u>					
A	Size 1200 x 1400 mm high (well grilled to secure)	No.	21			
B	Size 500 x 500 mm high (Well grilled to secure)	No.	4			
	<u>Precast concrete weathered and throated window cills</u>					
C	Window cill over all size 275 x 100 mm high with 3 No labour.	m	30			
D	Prepare and apply three coats gloss paint	m2	2			
	<u>Carried to Collection</u>					

WINDOWS (CONTINUES)		
<u>WINDOWS CURTAINS & RODES</u>		
- <u>Supply and fix the stainless steel curtain rodes firmly mounted to window tops with design to match.</u>	No.	10
- Length 1500 long <u>Supply and fix in the stainless steel curtain rodes firmly mounted to window tops the curtain fabric with color to match including sheers design to match.</u>	Item	1
- Curtains and Sheers 2 No. Labor	sum	1
<u>Carried to Collection</u>		
<u>COLLECTION</u>		
Page No. 2/21		
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<u>TOTAL FOR WINDOWS CARRIED TO SUMMARY</u>		KSHS.

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF RIAKEIRE CHIEF'S OFFICE BASIC DIGITAL ICT HUB IN BOOCHI WARD BOMACHOGE BORABU CONSTITUENCY</u> <u>BILLS OF QUANTITIES</u> <u>SECTION NO. 2</u> <u>ELEMENT NO. 8</u> <u>DOORS</u> - <u>Wooden Door</u>					
A	Size 900 x 2400 mm high Solid Flush Door.	No.	8			
	<u>Frames</u>					
	<u>Sawn softwood frame</u>					
B	150 x 30 mm Thick frames with two labours	m	48			
C	80 x 20 mm Architraves with two labours	m	48			
	<u>Ironmongery</u>					
	<u>Supply and fix the following ironmongery as applicable or equal and approved ironmongery with matching screws</u>					
D	100 mm Mild Steel Butt Hinges	Prs	16			
E	Two lever mortice lock including 2 No. Lever Handles	Set	8			
	<u>Prepare and apply three coats matt emulsion paint to</u>					
F	Timber surfaces	m2	24			
G	Surfaces 100 - 200 mm girth	m	48			
	-					
	-					
	-					
	<u>Carried to Collection</u>					
	-					
	-					

	DOORS (CONT'D)				
	- Steel Door				
	Supply and fix the following steel casement door fabricated from 50mm x 25mm x 3mm thick Rectangular Hollow Section (R.H.S) mild steel framing infilled with 14 gauge mild steel sheet factory primed in red oxide or zinc chromate primer including 6mm thick clear glass infill complete with all necessary purpose made ironmongery, and locks to Architect's details and approval				
A	Size 1500 x 2400 mm high double door	No.	2		
B	Size 900 x 2400 mm high single door	No.	2		
	Touch up primer,prepare and apply three coats of gloss oil paint to				
C	Metal surfaces	m2	10		
	<u>Carried to Collection</u>				
	-				
	-				
	<u>COLLECTION</u>				
	-				
	Page No. 2/1				
	Page No. 2/2				
	<u>TOTAL FOR DOORS CARRIED TO SUMMARY</u>			KSHS.	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF</u> <u>RIAKEIRE CHIEF'S OFFICE BASIC</u> <u>DIGITAL ICT HUB IN BOOCHI WARD</u> <u>BOMACHOGE BORABU</u> <u>CONSTITUENCY</u> <u>BILLS OF QUANTITIES</u> <u>SECTION NO. 2</u> <u>ELEMENT NO. 9</u> <u>EXTERNAL FINISHES</u> <u>Floor Finishes</u> <u>Cement Sand (1:4) Screed as described</u>					
A	40mm thick finished to receive tiles <u>Supply and fix with and including Sika Ceramic 100g grey adhesive and grout and pointing to match. Rate to include breakage and cutting waste</u>	m2	20			
B	400 x 400mm Ceramic tiles in patterns as directed	m2	20			
C	100mm Skirting tile Cut out of tiles above <u>Cement and Sand (1:4) render</u>	m	32			
D	12mm Thick to exposed beams and columns <u>Prepare and apply two coats matt emulsion paint to</u>	m2	12			
E	Plastered surfaces externaly	m2	24			
F	Keying to external surface	m2	45			
	<u>Carried to Collection</u>					

	EXTN FINISHES (CONT'D)					
	Ceiling Finishes					
	<u>Chipboard Ceiling</u>					
A	9mm thick	m2	20			
B	50x50mm Brandering	m	45			
C	75x25mm Wrot Cypress Cornice plugged	m	100			
	<u>Prepare and apply two coats internal quality matt emulsion paint to:</u>					
D	Surface of The Chipboard	m2	20			
	<u>Carried to Collection</u>					
	<u>COLLECTION</u>					
	Page No. 2/19					
	Page No. 2/20					
	<u>TOTAL FOR EXTERNAL FINISHES CARRIED TO SUMMARY</u>			KSHS.		

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF</u> <u>RIAKEIRE CHIEF'S OFFICE BASIC</u> <u>DIGITAL ICT HUB IN BOOCHI WARD</u> <u>BOMACHOGE BORABU</u> <u>CONSTITUENCY</u> <u>-</u> <u>BILLS OF QUANTITIES</u> <u>-</u> <u>SECTION NO. 2</u> <u>-</u> <u>ELEMENT NO.10</u> <u>INTERNAL FINISHES</u> <u>Floor Finishes</u> <u>Cement Sand (1:4) screed as described</u>					
A	20 mm Thick finished to receive tiles <u>Supply and fix with and including Sika Ceramic 100g grey adhesive and grout and pointing to match. Rate to include breakage and cutting waste</u>	m2	170			
B	400 x 400mm Ceramic tiles in patterns as directed	m2	170			
C	100mm Skirting tile Cut out of tiles above	m	70			
D	200 x 300 mm wall tiles to wash rooms	m2	50			
	<u>Cement, sand, lime (1:2:9) in :-</u>					
E	<u>-</u> 12 mm Thick plaster to masonry or concrete surfaces <u>Painting and Decorating</u> <u>Prepare and apply two coats internal quality matt emulsion paint to:</u>	m2	75			
F	Plastered Wall surfaces	m2	182			
	<u>Carried to Collection</u>					

INTERNAL FINISHES(CONTDD)						
<u>Ceilling Finishes</u>						
<u>Chipboard Ceilling</u>						
A	9mm thick	m2	170			
B	50x50mm Branderling	m	420			
C	75x25mm Wrot Cypress Cornice plugged	m	65			
<u>Prepare and apply three coats internal quality matt emulsion paint to:-</u>						
D	Surface of the Chipboard	m2	170			
<u>Carried to Collection</u>						
-						
-						
<u>COLLECTION</u>						
-						
Page No. 2/21						
Page No. 2/22						
<u>TOTAL FOR INTERNAL FINISHES</u>						
<u>CARRIED TO SUMMARY</u>						
				KSHS.		

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF</u> <u>RIAKEIRE CHIEF'S OFFICE BASIC</u> <u>DIGITAL ICT HUB IN BOOCHI WARD</u> <u>BOMACHOGE BORABU</u> <u>CONSTITUENCY</u> <u>-</u> <u>BILLS OF QUANTITIES</u> <u>-</u> <u>CABINETS</u> <u>High level Carbinets in the store & Control room</u>					
A	MDF Size 2200 x 600 x 300mm NBU <u>Shelves</u>	No.	2			
B	MDF Shelves size 800 x 900 mm high in Control room and store Worktops including hinges and locks	No.,	8			
	COMPUTER WORK STATIONS					
C	MDF Board partitioning for each computer user totalling to 96 components as directed	Item	1			
D	Chairs for users	No.	96			
	<u>WAITING SEATS AT WIFI ZONE</u>					
E	Wooden Benches with steel footing and per project manager's directive to waiting area	No.	2			
F	Air conditioning as instructed by the project manager	Item	1			
G	White board measuring 2500 x 1200mm complete with duster and chalk holder fitted to learning centre and main hall area	No.	2			
H	Fire extinguishers strategically placed to efficiently assist in fire control (Powder 9kg)	No.	6			
I	Toilet fitting complete with plumbing works as directed	Item	1			
	<u>TOTAL FOR INTERNAL FINISHES</u> <u>CARRIED TO SUMMARY</u>					

PROPOSED 200 PERSONS SEPTIC TANK FOR THE DIGITALICT HUB IN BOMACHOGE BORABU

NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
A	<u>SEPTIC TANK</u> <u>Site clearance</u> Clear site for sewage treatment small trees grass and the like and dispose as directed by the DR	SM	15		
B	<u>Excavations</u> Excavate pit for septic tank starting from ground level not exceeding 1.5m deep backfill around the septic tank after construction and dispose surplus material as directed by the DR	CM	20		
C	Excavate pit for septic tank starting from excavated level exceeding 1.5m and not exceeding 3.0m deep, backfill around the septic tank after construction and dispose surplus material as directed by the DR	CM	20		
D	Ditto but exceeding 3.0m and not exceeding 4.5m deep ditto	CM	20		
G	<u>CONSTRUCTION</u> Provide, lay and vibrate 50mm thick concrete class Q (1:3:6) blinding	SM	15		
TOTAL CARRIED TO SEPTIC TANK COLLECTION PAGE					

NO .	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SEPTIC TANK CONT'D</u>				
A	Provide place and vibrate 250mm thick reinforced concrete class 20(20)1:2:4) in concrete bed	SM	15		
B	Provide place and vibrate 200mm thick reinforced concrete class 20(20) (1:2:4) in walls	CM	4		
C	Provide place and vibrate 150mm thick reinforced concrete class 20(20)(1:2:4) in wall	SM	12		
D	Ditto 200mm thick - ditto	SM	2		
E	Ditto 200mm thick in suspended slab	SM	15		
	<u>REINFORCEMENT</u>				
F	Provide, cut, bend and fix in concrete 16mm dia ms reinforcing bar including all necessary tying wire, spacer blocks, and the like	KG	550		
G	Ditto 12mm dia ms ditto	KG	450		
H	Ditto 10mm dia ms ditto	KG	40		
J	Ditto 16mm dia high tensile square twisted bar ditto	KG	100		
K	Ditto 12mm dia high tensile square twisted bar ditto	KG	30		
L	Ditto dia 10mm ditto	KG	110		
M	Ditto 8mm dia ditto	KG	5		
N	Provide and place in concrete BRC mesh No. 65 reinforcement or equivalent, including all necessary tying wire, spacer blocks, laps and the like	SM	15		
	TOTAL CARRIED TO SEPTIC TANK COLLECTION PAGE				

N O.	DESCRIPTION	UNIT	QTY	RATE	<u>AMOUNT(KSHS)</u>
					-
	SEPTIC TANK CONT'D				-
A	Formwork				-
	Provide and fix sawn timber formwork				-
	to edges of bed between 150 and				-
	225mm high	LM	40		
B	Ditto to edge of suspended slab				
	between 75 and 100mm high	LM	20		
C	Ditto between 150 and 225mm high	LM	5		
D	Provide and fix sawn timber formwork				
	to soffit of suspended slab between				
	3.5m and 5m high	SM	15		
E	Ditto to soffit of suspended slab	SM	15		
F	Provide and fix sawn timber formwork				
	to sides of walls	SM	40		
	FINISHES				
G	Provide materials and apply 12mm				
	rendering (1:1) to walls both internally				
	and externally	SM	40		
H	Provide and apply 25mm thick screed				
	(1:3) to slab (top & bottom)	SM	30		
J	Provide and fix 600x450 medium duty				
	manhole cover and frame to detail				
	(50)5313 type 'B'	NO	4		
K	Testing of the whole of the				
	foul drainage by water test to MOW				
	general specifications and				
	to the satisfaction of				
	the DR				
L	Allow for keeping excavations free				
	from general waters	ITEM	1		
	TOTAL CARRIED TO SEPTIC				
	TANK COLLECTION PAGE				

NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT(KSHS)
A	<u>PIPE CONSTRUCTION</u> Provide, lay and joint in trench dia 160mm golden brown class 41 sewer pipe in flexible joints (rubber ring or lip seal joint) including 100mm approved murram bed and haunch to detail (50)5310 type F	LM	30		
B	Ditto but in concrete class Q bed and haunch to detail (50)5310 type C	LM	20		
E	<u>MANHOLES</u> Provide materials and erect manhole type A & to detail (50)5301 including all necessary excavations, backfilling and disposal of surplus material and formwork and medium duty manhole cover and frame to detail (50)5313 type 'A' average depth 0.9m	NO	2		
F	Ditto but with medium duty manhole cover and frame to detail (50)5313 type 'B' average depth 0.9m	NO	2		
	TOTAL CARRIED TO SEPTIC TANK COLLECTION PAGE				

FOUL DRAINAGE					
NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT(KSHS)
A	<u>SEWERAGE TREATMENT DISTRIBUTION MANHOLES</u> Provide materials and erect distribution manhole 750x900mm overall to detail (50)5351 including all necessary excavations, backfilling and disposal of surplus material average depth 1.0m	NO	2		
B	<u>FRENCH DRAINS</u> Excavate trench for french drain dia 160mm starting from ground level not exceeding 1.5m deep, backfill after constructing french drain and dispose excess material as directed by the DR average depth 1.25m, allow for trimming sides to slope as in detail (50)5344	LM	30		
C	Provide and lay in trench 160mm dia agricultural pipe with 10mm open joints as french drain including tar paper over open joints and crushed stone bed and surround 550mm thick and 200mm thick compacted murrum and polythene sheet all to detail (50)5344	LM	30		
D	Excavate trench for dia 160mm sewer pipe starting from ground level not exceeding 1.5m deep backfill after laying pipe and dispose surplus material as directed by the DR average depth 1.0m	LM	10		
E	Provide, lay and joint in trench dia 160mm Upvc golden brown class 41 sewer pipe in flexible joints (rubber ring or lip seal) including murrum bed and haunch to detail (50)5310 type F' from septic tank outlet to distribution manhole and between distribution manholes.	LM	9	550.00	4,950.00
TOTAL CARRIED TO SEPTIC TANK COLLECTION PAGE					

NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT(KSHS)
	<u>SOAKPITS</u>				
A	Excavate for soakpit starting from ground level not exceeding 1.5m backfill after constructing soakpit and dispose excess material as directed by the DR	CM	9		
B	Excavate for soakpit as before described but exceeding 1.5m and not exceeding 3.0m deep	CM	3		
C	Ditto exceeding 3.0m and not exceeding 4.5m deep	CM	4		
D	Provide materials and erect soakpit of 1.2m internal diameter with 140mm thick walling and 100mm thick concrete 1:3:6 base and 150mm thick RC slab and 600x450mm medium duty MH cover and frame and 200mm dia stone fill and all necessary formwork all to detail (50)5345	NO	1		
	TOTAL CARRIED TO SEPTIC TANK COLLECTION PAGE				

SEPTIC TANK COLLECTION PAGE

ITEM	DESCRIPTION	AMOUNT
A	Total bf from page1	
B	Total bf from page2	
C	Total bf from page3	
D	Total bf from page4	
E	Total bf from page5	
F	Total bf from page6	
SUB-TOTAL		
TOTAL FOR THE WORKS		
TOTALS TO TENDER FORM		

ITEM	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF RIAKEIRE CHIEF'S OFFICE BASIC DIGITAL ICT HUB IN BOOCHI WARD BOMACHOGE BORABU CONSTITUENCY</u> <u>Supply, Install, Test and Commission the following:</u>					
A	Lighting point wired using 3x1.5mm ² pvc single core cable drawn in 20mm heavy gauge pvc conduits concealed in walls , one way switched but excluding the switch itself	No	12			
B	Automatic Switch system incorporated in a magnetic conductor and electric photo sensor properly protected from current surge as directed by the project electrical engineer.	No	1			
C	1 gang 1 way switch as mk or approved equal	No	10			
D	1 gang 2 way switch as mk or approved equal	No	4			
E	1200mm, 1 x 28w slim single fluorescent LED light	No	12			
F	13A twin switched socket outlet wired in 3x2.5mm ² pvc single core cable drawn in 20mm heavy gauge pvc conduits concealed in walls	No	20			
G	Bulk head light fitting with 18 watts LED light fitting and metal base	No	4			
H	Meter box manufactured using heavy gauge galvanized steel, powder coated to approval	No.	1			
I	8 ways SP Consumer's unit as Schneider or approved equivalent	No.	1			
	<u>Single pole miniature circuit breakers compatible to each item</u>					
J	2A SP MCB	No.	1			
K	6A SP MCB	No.	2			
L	32A SP MCB	No.	1			
M	Install earthing system to the installation terminating to ground Using 2.5 m earth rod with clamp driven into the ground and enclosed in a 300x300mm earth chamber with an air tight cover. Rod to main equitential bonding terminal to be via16.0mm ² sigle core copper cable (Green in colure)	No.	1			
	<u>Carried to Collection</u>					

	ELEC (CONTD)					
	<u>Builder's work</u>					
A	Chase in wall 30x30mm and seal in cement sand mortar 1:3 after conduiting	m	30			
B	Make good all disturbed mortar points	m2	10			
C	Allow for Connecting to KPLC Suplly	Item	1			
D	Allow for Commissioning fee	Item	1			
	<u>Carried to Collection</u>					
	<u>COLLECTION</u>					
	Page No. 2/10					
	Page No. 2/11					
	<u>TOTAL FOR ELECTRICAL WORKS</u> <u>CARRIED TO SUMMARY</u>			KSHS.		

PROPOSED CONSTRUCTION OF RIAKEIRE CHIEF'S OFFICE BASIC DIGITAL ICT HUB IN BOOCHI WARD BOMACHOGE BORABU CONSTITUENCY					
NO	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
	TRAINING ROOM				
1	Face Plates	Pcs	60		
2	Knock out	Pcs	30		
3	AP Wifi Indoor	Pcs	1		
4	Modules	Pcs	60		
5	3M Patch code	Pcs	60		
6	50*150 Trankings	Pcs	14		
7	Cat 6 Cables	Boxes	10		
	WORKING ROOM				
1	Face Plates	Pcs	60		
2	Knock out	Pcs	30		
3	AP Wifi Indoor	Pcs	1		
4	Modules	Pcs	60		
5	3M Patch code	Pcs	60		
6	50*150 Trankings	Pcs	14		
7	Cat 6 Cables	Pcs	5		
	ADMINISTRATION				
1	Face Plates	Pcs	20		
2	Knock out	Pcs	20		
3	AP Wifi Out Door	Pcs	1		
4	Modules	Pcs	20		
5	3M Patch code	Pcs	20		
6	50*150 Trankings	Pcs	6		
7	Cat 6 Cables	Boxes	1		
	SERVER ROOM				
1	16UCabinet	Pcs	1		
2	24 Port Core Switch	Pcs	1		
	48 Port 10/100/1000 BaseT/SFP/Smart				
3	Switch	Pcs	3		
4	Cabe manager	Pcs	4		
5	48 Port patch panel	Pcs	3		
6	1 M patch cord	Pcs	120		
7	Starlink	Pcs	1		
8	UPS	Pcs	1		
9	Accessories	Pcs	1		
10	50*150 Trankings	Pcs	2		
	Computer				
1	Dell OptiPlex 7040 Core i5-6500 8GB RAM 500GB HDD ROM 19" DELL MONITOR FOR CONTROL ROOM WITH A UPC TO MATCH	No.	1		
	<u>TOTAL FOR LAN NETWORKING CARRIED TO SUMMARY</u>				

ITEM NO.	DESCRIPTION		SHS.	CTS.
	- <u>PROPOSED CONSTRUCTION OF RIAKEIRE CHIEF'S OFFICE BASIC DIGITAL ICT HUB IN BOOCHI WARD BOMACHOGE BORABU CONSTITUENCY</u> - <u>BILLS OF QUANTITIES</u> - <u>SECTION NO. 2</u> - - <u>SUMMARY</u> -	-		
1.	SUBSTRUCTURES	-		
2.	RC SUPERSTRUCTURE	-		
3	ROOF	-		
4	EXTERNAL WALLS	-		
5	INTERNAL WALLS	-		
6	WINDOWS	-		
7	DOORS	-		
8	EXTERNAL FINISHES	-		
9	INTERNAL FINISHES	-		
10	FITTINGS INTERNALY	-		
11	SEPTIC TANK	-		
12	ELECTRICAL WORKS	-		
13	LAN SYSTEM	-		
	<u>TOTAL FOR BUILDER'S WORK CARRIED TO MAIN SUMMARY</u>	KSHS.		

ITEM NO.	DESCRIPTION	UNIT	QTY.	KSHS.	CTS.
A	<u>PROPOSED CONSTRUCTION OF RIAKEIRE CHIEF'S OFFICE BASIC DIGITAL ICT HUB IN BOOCHI WARD BOMACHOGE BORABU CONSTITUENCY</u> - <u>BILLS OF QUANTITIES</u> - <u>SECTION NO. 3</u> - <u>PRIME COST AND PROVISIONAL SUMS</u> - <u>PRIME COST SUMS</u>				
	Allow the provisional Sum for procurement committee allowances		Sum		
	B Allow the provisional Sum of 5% for Project Management Committee Allowances & Administration		Sum		
	C Allow the provisional Sum of 0.03% for Procurement Levy		Sum		
	<u>TOTAL FOR PRIME COST AND PROVISIONAL SUMS CARRIED TO SUMMARY</u>		KSHS.		

ITEM NO.	DESCRIPTION		SHS.	CTS.
	- <u>PROPOSED CONSTRUCTION OF</u> <u>RIAKEIRE CHIEF'S OFFICE BASIC</u> <u>DIGITAL ICT HUB IN BOOCHI WARD</u> <u>BOMACHOGE BORABU CONSTITUENCY</u>	-		
	- - <u>MAIN SUMMARY</u>	-		
1.	PRELIMINARIES			
2	BUILDER'S WORKS			
3	PROVISIONAL SUMS			
	<u>TOTAL CARRIED TO FORM OF TENDER</u>	KSHS.		

EMPLOYER:

CONTRACTOR

NAME:

NAME:

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ADDRESS:

ADDRESS:

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SIGNATURE:

SIGNATURE:

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DATE:

DATE:

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