

Item	Description	Unit	Quantity	Rate KShs	Amount KShs
	SECTION NO.1				
	<u>BILL OF QUANTITY FOR PROPOSED CONSTRUCTION TO COMPLETION OF JI TUME D I G I T A L _ HUB NGCDF FOR LUNGA LUNGA C O N S T I T U E N C Y.</u>				
	<u>MEASURED WORKS</u>				
	<u>BILL NO.1</u>				
	<u>SUBSTRUCTURES</u>				
	<u>All Provisional</u>				
	<u>EXCAVATIONS</u>				
	<u>Excavations including maintaining and supporting sides and keeping free from water,mud and fallen material.</u>				
1.0	Clear site of shrubs,grass,small trees girth not exceeding 600mm and grub roots and remove from site as directed.	SM	298		
2.0	Excavate oversite average 200mm deep to remove top vegetable soil and spread on site as directed.	SM	298		
3.0	Excavate trenches for wall foundation commencing from reduced level but not exceeding 1.5m deep.	CM	59		
4.0	Mass excavation from reduced level: not exceeding 0.8m deep and remove from site.	CM	175		
5.0	Extra over all excavations for excavating in rock	CM	6		
	<u>PLUNKING AND STRUTTING</u>				
6.0	Allow for all necessary earthwork support to sides of foundation trenches	Item	1		
	<u>DISPOSAL OF WATER</u>				
7.0	Allow for all keeping excavations free of water and mud by pumping,bailing or other approved means.	Item	1		
	<u>FILLINGS /DISPOSAL</u>				
8.0	Return,fill and ram selected imported murrum material around foundation.	CM	217		
9.0	Load, wheel and deposite surplus excavated material where directed by architect on site not exceeding 50metres away.	CM	191		
	Carried forward				

Item	Description	Unit	Quantity	Rate KShs	Amount KShs
	carried forward				
	<u>Hardcore filling</u>				
1.0	450mm thick hardcore under floors compacted in 150mm layers.	SM	215		
2.0	50mm thick quarry dust blinding to surfaces of hardcore	CM	17		
3.0	Chemical anti- termite treatment executed complete by an approved specialist under a ten (10) year guarantee to the surfaces of blinded hardcore.	SM	215		
	<u>Damp proof membrane</u>				
4.0	500 gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net-allow for laps).	SM	215		
	<u>CONCRETE WORK</u>				
	<u>Concrete 1:3:6 as describe.in:-</u>				
5.0	50mm thick concrete blinding under strip foundations	SM	12		
6.0	200mm thick strip foundations	SM	68		
	<u>Reinforced concrete 1:2:4. as describe.in:-</u>				
7.0	150mm thick floor beds	SM	215		
8.0	Strip foundations	CM	11		
9.0	Foundation Columns	CM	1.50		
10.0	Column Bases	CM	2.50		
	<u>Mesh fabric reinforcement to BS 4483 and and setting in concrete with 300mm side and end laps(measured net allow for laps)</u>				
11.0	Fabric mesh ref: A142 weighing 0.54Kg per square metre in floor bed and ramps.	SM	215		
	<u>High yield square twisted reinforcement including cutting to lengths,bending, twisting and fixing including all necessary tying wires and spacing blocks to B.S. 4461:-</u>				
12.0	8mm bars	KG	226		
13.0	10mm ditto.	KG	175		
14.0	12mm ditto.	KG	243		
	<u>Sawn Formwork to:</u>				
15.0	Sides of column bases	SM	19		
16.0	Vertical sides of strip footing	SM	46		
17.0	Ditto sides of Foundation Columns	SM	15		
18.0	Edges of floor bed girth 75-150mm high.	LM	77		
	<u>Carried Forward</u>				

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>Brought Forward</u>				
	<u>SUB-WALL</u>				
	<u>Walling in machine cut natural coral stone block obtained from an approved quarry jointed and bedded in cement sand mortar (1:3)</u>				
1.0	200mm walls	SM	78		
	<u>DPC</u>				
	<u>Three ply bituminous felt damp proof courses bedded in cement sand mortar (1:3) measured seperately.</u>				
2.0	200mm wide horizontal layer.	LM	149		
	<u>PLINTH</u>				
	<u>12mm cement sand (1:4) render:Steel trowelled on concrete or stonework to:-</u>				
3.0	Concrete or masonry wall plinths	SM	31		
	<u>Prepare and apply two coats bituminous paint on render to:-</u>				
4.0	Rendered concrete or stone surfaces	SM	31		
	<u>External works.</u>				
	<u>600 x 600mm paving slab around the slab and wiFi area</u>	SM	112		
5.0	60N Cabro at WiFi area	SM	45		
	<u>Mass excavation commencing from stripped level depth not exceeding 1.5metres and cart away as directed by the project manager.</u>				
6.0		CM	53		
	<u>Approved imported murram fillings to make up levels ;compacted in layers not exceeding 150mm Thick ;to the satisfaction of the Engineer.</u>				
7.0		CM	53		
	<u>TOTAL FOR BILL NO.1 SUBSTRUCTURE WORKS</u>				
	<u>CARRIED TO SUMMARY</u>				

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	BILL No.2				
	RAMP AND STEPS				
	The following in 1No ramp and step measuring <u>1500mm wide x 2500mm long</u>				
1.0	Excavate pit for ramps/step bases commencing from reduced level but not exceeding 1.5m deep.	CM	3		
2.0	Remove excavated materials from site	CM	3		
	Mass concrete mix 1:3:6				
3.0	In ramps/step	CM	5		
	Formwork				
4.0	Sawn formwork to sides of ramps/step	SM	3		
5.0	Ditto to edges of risers	LM	9		
	TOTAL FOR BILL No 2.RAMP AND STAIRS CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	BILL NO. 3				
	CONCRETE WORKS				
	<u>Reinforced concrete mix 1:2:4 grade 20 as</u> <u>described in:-Columns</u>				
1.0	Gutter beam	CM	2.5		
2.0	Beams	CM	11		
3.0		CM	10		
	<u>High yield square twisted reinforcement including</u> <u>cutting to lengths,bending, twisting and fixing</u> <u>,including all necessary tying wires and spacing</u> <u>blocks to B.S. 4461:-</u>				
4.0	8mm diameter bars	KG	475		
5.0	10mm ditto	KG	403		
6.0	12mm ditto	KG	336		
	Sawn softwood formwork to:-				
7.0	Sides of columns	SM	32		
8.0	Sides and soffits of beams	SM	90		
9.0	Sides and soffits of gutter beams	SM	103		
					-
					-
					-
					-
	TOTAL BILLNO.3 VIBRATED REINFORCED CONCRETE SUPERSTRUCTURES CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BILL No.4</u>				
	<u>WALLING</u>				
	<u>EXTERNAL WALLING</u>				
	<u>Walling in Dressed natural coursed stone obtained from an approved quarry, jointed and bedded in gauged mortar (1:3) and including 25g hoop iron reinforced strip in every alternate course .</u>				
1.0	200mm Thick walling	SM	124		
2.0	Ditto Parapet walling	SM	98		
3.0	100mm Thick Fins	SM	18		
4.0	Eaves fillings to 200mm Thick walls extreme height 300mm	LM	114		
	<u>INTERNAL WALLING</u>				
	<u>Walling in natural stone obtained from an approved quarry, jointed in cement and sand (1:3) mortar and including 25g hoop iron reinforcement in every alternate course</u>				
5.0	200mm Thick walling	SM	101		
6.0	150mm ditto	SM	12		
7.0	Three -ply bituminous felt damp proof course				
8.0	200mm wide under walls	LM	33		
9.0	150mm ditto	LM	5		
	<u>Copping.</u>				
	Precast concrete class 20/20 coping maximum vertical height 75mm high: edges 40mm high: weathered and throated to approval: bedded jointed in cement sand (1:4) mortar : all to detail as described.				
10.0	375mm wide coping to walls	LM	45		
	TOTAL BILL NO.4 WALLING SUPERSTRUCTURE CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BILL NO. 5</u> <u>All Provisional</u> <u>ROOF CONSTRUCTION, Timber roof construction</u> Structural timbers Trusses spanning 10635 x 1800mm high including hoisting and fixing in position approx 3000mm above ground floor slab including all necessary jointing (T1) <u>The following in 14No. second grade celcured cypress timber trusses spanning 9200mm and 2100mm high</u> 150 x 50mm; External members (Rafters and Joist)				
1.0	100x50mm; Internal members (Strut and Ties)	LM	158		
2.0	150 x 50mm Tie beam	LM	144		
3.0	Structural timbers, sawn cypress pressure impregnated as describe	LM	33		
4.0	150 X 50 Hip rafter.	LM	28		
5.0	150 X 50mm Valley rafter.	LM	58		
6.0	75 x 50mm purlin members	LM	216		
7.0	150 X 50mm Ridge board.	LM	28		
8.0	150 x 50 mm wall plate to verandah secured with 100mm diameter steel CHS columns and including 12 mm diameter mild steel bolt 150 mm long.	LM	102		
	<u>ROOF FINISHES-Roof covering</u> <u>approximately 3000mm average height from ground level with and including 100mm long galvanised roofing nails on timber purlins (ms) with one end and a half corrugation side lap and 150mm end laps with matching roofing rubbers</u>				
9.0	28gauge box profile prepainted blue roof covering nailed to Timber Purlins	sm	226		
10.0	Matching ridge caps	LM	30		
11.0	300 mm Girth matching plain sheet ridge capping thrice bent and dressed over covering.	LM	28		
12.0	<u>Eaves filling</u> 200mm thick machine cut coral block eaves and gable filling	LM	46		
13.0	100 mm Diameter downpipe fixed to masonry wall with and including all matching brackets and clips.	LM	14		
14.0	Extra over gutters for 100mm diameter outlet.	NO	6		
15.0	Extra over down pipe for 100mm sawn-neck bend.	NO	6		
16.0	Ditto for 100 mm shoe.	NO	6		
17.0	Rainwater anti-splash shoe	NO	6		
	<u>TOTAL BILL NO.5 ROOFING WORKS</u> <u>CARRIED TO SUMMARY</u>				

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BILL No. 6</u>				
	<u>DOORS</u>				
	<u>Frames and Finishings.</u>				
	Supply and Fix Wrot hardwood door Mahogany or approved equivalent.				
1.0	150 x 50mm frame with three labours : moulded screwed and palletted .	SM	86		
2.0	Architectural to detail size, 75 x	LM	86		
3.0	25mm Quadrant bead, diameter	LM	86		
4.0	25mm				
	Mahogany hardwood doors.				
5.0	Supply and fix 45mm finished hardwood doors faced on both side with 5mm thick mahogany veneer and 15mm x 15mm hardwood beadings pinned and glued to door on both faces to form grids to details and approved .	NO	9		
6.0		NO	4		
7.0	Single leaf door size 900 x	NO	1		
	2100mm High. Double leaf				
	door size 1300 x 2100mm High.				
	Ditto 1300 x 2400mm High.				
	<u>Steel Doors.</u>				
8.0	Supply,Assembly and fix Mild steel pannelled doors; 100 x 50 x 3mm Thick frame plugged to concrete or blockwork with 100mm long finished 25 x 25 x 2mm Thick angle section, 50 x 50 x 3mm Thick hollow section stiles, top ,bottom and middle rails at 600mm centres vertical and 1016mm centres horizontal,angles cut,mitred and welded ;grilled upper panel infilled with 50 x 50 x 4mm Thick mild steel square hollow sections;lower panel infilled with 16 gauge mild steel plate complete with 'multi-lock '4 way lock model 285,high	NO	2		
11.0		SM	5		
9.0	Ditto;1300 x 2400mm High.	PRS	14		
10.0	<u>Glazing to fanlights</u>				
	4mm Thick clear sheet glass and glazing to and including timber beads in panes in-,	NO	14		
11.0	Panes not exceeding 0.5m square metre	NO	14		
	<u>Ironmongery</u>				

	Supply and fix the following ironmongery including all necessary matchind screws.				
12.0	Heavy duty stainless steel hinges with washers. 40mm Diameter	SM	44		
	rubber door stops				
	3-Level mortice lock complete with pair of bars level handle.				
	Painting and Decorating.	SM	18		
		LM	86		
		LM	86		
13.0	Touch up primer ,prepare and apply one undercoat and two finishing coats gloss oil paint on as described.				
17.0					
14.0	General surfaces of glazed metal doors internally (measured on both side over glass).	LM	86		
		LM	1.2		
15.0	Prepare and apply one undrcoat and two finishing coats high quality polyurethane clear locquer to wooden surfaces as supplied by an approved Manufacture: Internally and or externall : to				
16.0					
	General surfaces of wood work.(m.o.b.s) Frames ;over 100mm -200mm girth Ditto not exceeding 100mm girth;internal				
	Prime backs of wood before fixing with aluminium or other approved primer on:				
	Surfaces exceeding 100-200mm girth				
	Fabricate and fix to masonry wall grab rails to all PWD toilets				
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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BILL</u>				
	<u>NO.7</u>				
	<u>WIND</u>				
	<u>OWS.</u>				
1.0	<u>Window Cill.</u> 250mm x 75mm waethered and throated pre-cast concrete window cill pointed in cement and sand (1:3) mortar	LM	50		
2	<u>Window grills</u> Heavy duty steel window grilles comprising 16mm square bar perimeter framing and horizontal middle rail 12mm square bar ventical infilla st 150mm centres 16x 4mm flat diamond shaped welded onto square bars primed as per crown paints primer the whole grille complete with fixing lugs and incuding fixing to masonry walling	SM	54.693		
	<u>Glass Sliding windows</u> Glass sliding windows including all necessary mullions, transoms, frames and sliding tracks. Complete with handles, locking mechanisms, rollers, stays and all necessary ironmongery; factory primed with primer. The windows shall include cutting and pinning of fixing lugs to concrete or masonry jambs, bedding in cement and sand (1:3) mortar, pointing around all frames with approved mastic, greasing, oiling and adjusting sliding panels upon completion, all as specified and approved.				
3.0	Variours sizes	SM	54.693		
	±				

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>BILL NO. 8</u>				
	<u>FINISHES</u>				
	<u>FLOOR FINISHES</u>				
	<u>Floors and Skirting.</u>				
1.0	40mm thick Cement Sand (1:4) and floor screed	SM	215		
2.0	20mm thick x 100mm high cement sand skirting (1:3) mix	LM	96		
3.0	Supply and fix 300 x 300 mm ceramic tiles fix with 2mm spacers and make good	SM	215		
4.0	2mm thick quarter round aluminium edge strip	LM	96		
	<u>WALL FINISHES; External</u>				
5.0	Extra over dressed stone walling for neat recessed horizontal key in cement mortar (1:3)	SM	308		
	<u>CEILING.</u>				
	Supply and fix 6mm Thick chip board ceiling affixed to and including 53 x 32mm U-Section galvanised steel studs with rounded, smooth compound edges and edge trims to clients approval.				
6.0	Ceiling horizontal	SM	215		
7.0	Extra over for forming 600 x 600mm access door trap ; 25 x 100 mm wrot cypress frame and 20 x 50mm wrot cypress stopper; piano hinges door catch.	NO	4		
8.0	Supply and fix 75mm Thick wrot cypress cornice with 2 labours.	LM	157		
9.0	Wall tiles & floor tiles. 15mm thick to receive ceramic tiles (m/s)	SM	26		
	200 X 200 X 8 mm thick coloured ceramic wall tiles or other equal and approved : jointed and wall pointed with matching cement mortar as described on:				
10.0	Walls	SM	26		
	Painting & Decorating				
	Skimming				
11.0	Carefully prepare the plastered surface by sanding and skimming with gypsum powder to achieve the smooth surface.	SM	267		
12.0	Ditto ceiling	SM	215		
	Apply three coats of premium quality silk vinyl paint to Plastered.				
13.0	Walls	SM	267		
14.0	Ceiling	SM	215		
	<u>Extrenal Wall Finishes.</u>				

	Render; 18mm Thick ,1NO.coatwork of cement and sand (1:3);wood floated to concrete or stone work base generally to:-				
15.0	Extra over walling for key pointing externally; patterns to Enginner approval.	SM	178		
	12mm (minimum) two coat plaster ;9mm first coat of cement and sand (1:6),3mm second coat of cement and lime putty (1:10) steel trowelled smooth to;				
16.0	Walls, beams columns	SM	73		
	Painting and Decorating. Prapare and apply exterior quality "marmoran" wall coating; "permacrete"with 2mm Thuck marmoran top coat:colours and patterns as specified by the Project Manager.				
17.0	Rendered stone wall and concrete surfaces	SM	73		
<u>TOTAL BILL NO 8; FINISHES CARRIED TO SUMMARY</u>					

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>Electrical works.</u>				
	Supply,install,test and commission the following:-				
1.0	Lighting point wired in 3 x 1.5 mm ² single core PVC cables drawn in 20mm heavy gauge conduits concealed in walls and floors, 1 & 2-way switched but excluding other accessories				
2.0	a) One way switching. Lighting fittings, complete with lamps of specified wattage and appropriate colour rendering:- a) Standard circular surface luminaire with polycarbonate body and white trim, polycarbonate opal diffuser and integral control gear for 28W 2D Compact LED lamp (at reception desk)	NO	21		
3.0	b) 4FT LED batten fitting with 30Watts twin tubes lm, 50,000 hours, 400K color temperature, 230-240V AC complete with all installation accessories.	NO	17		
	c) Ball light fitting with IP66 specification for the bathroom	NO	8		
	<u>10Amps, White ivory switch plates as CLIPSAL, BG NEXUS or approved equivalent as</u>				
	a) 1 -gang 1-way	NO	6		
	b) 2 -gang 1-way	NO	1		
4.0	13Amps power socket outlet points in 3 x 2.5 mm sq. single core PVC copper cables drawn in steel Trunking/in -wall concealed conduits or floor conduits of 25mm HG PVC 13A plates as MK, Clipsal, BG, CRABTREE OR AN APPROVED EQUIVALENT.	NO	21		
5.0	a) twin 6 ways flush mounted consumer unit complete with 100A integral isolator as HAGER or approved equivalent complete with all accessories including lockable cover complete with Main RCD but excluding MCBs	NO	1		
	<u>Supply and install the following miniature circuit breakers (MCBs) rated at 500Vac for the above Distribution boards.</u>				
	a) 10A, SP	NO	2		
	b) 30A, SP	NO	3		
	Allow for the connection of power (electricity) to the block from the nearest	ITEM	1		

main source of power.					
<u>TOTAL BILL NO.9: FITTINGS</u>					
<u>CARRIED TO</u>					
<u>SUMMARY</u>					

Item	Description	Unit	Qty	Rate KShs	Amount KShs
1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0	<u>ICT HUB MAIN</u>				
	<u>SUMMARY. SUMMARY</u>				
	SUBSTRUCTURE WORKS				
	RAMP AND STEP				
	VIBRATED REINFORCED CONCRETE SUPERSTRUCTURE				
	WALLING SUPERSTRUCTURE				
	ROOFING				
	DOORS				
	WINDOWS				
	FINISHES				
	ELECTRICAL INSTALLATIONS				
	CARRIED TO MAIN SUMMARY				

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>SANITARY APPLIANCES.</u> Supply,deliver,install and commission the following sanitary appliances complete with all the accessories including all connections to the services,waste ,jointing to water supply overflows,supports and floors. Note: All sanitary fittings shall be in approved colour. The Model and Ref No.indicated is only a guide to the type and quality of fittings . Equivalent & Approved models may be acceptable.				
1.0	<u>Water closet (WC)</u> Squatting Asian Ceramic Toilet with a plastic cistern wall hung top flush cistern suite in approved colour complete ref SKU: ABL10175 The unit shall come complete with back entry cistern flush one and half inch low pressure flush valve ref # 01021500,all other necessary accessories.equal and approved.	NO	6.00		
3.0	<u>Toilet Roll Holder.</u> U-Shaped chrome plated wall mounted toilet roll holder as 'Duravit ,D-Code #0099261000 or approved equivalent.	NO	6.00		
4.0	<u>Toilet Brush and Holder.</u> Wall mounted toilet brush holder and brush of approved colour as Tapis or approved equivalent.	NO	6.00		
6.0	<u>Wash hand basin (WHB).</u> Wash hand basin size 560 x 500mm with overflow, one tap hole ,32mm diameter chrome plated chain waste ,chain stay hole, single level basin mixer with pop up waste as Hansgrohe Logis E 70 ref LH1072A or equivalent and heavy dutyplastic bottle trap (32mm 'P trap) with 75mm seal.Wash Hand Basin (WHB) to be as Nova Eros item code BWHNOER012 equal and approved.	NO	4.00		
7.0	<u>Flexible Tubing.</u> 15mm diameter x 300mm long flexible connectors complete with chrome plated angle valve.	NO	6.00		
8.0	<u>Foam Soap Dispenser-Wall Mounted.</u> 0.6 Litre wall mounted manual press action foam soap dispenser with satin finish spout and glass bottle.Dispenser to be wall mounted and to be as 'Duravit, D-Code # 0099161000' or approved equivalent.	NO	2.00		
	<u>Mirror.</u>				

9. 0	6mm thick polished plate glass silver backed mirror with beveled edges,size 510 x 610mm plugged and screwed to wall with 4No.chrome plated dome capped screws.The mirror shall rest against a layer of 5mm thick faom.	NO	4.00		
10. 0	<u>Urinal Bowl.</u> 450 x 300 x375mm white Ceramic urinal bowl set complete with,spreaders,40mm heavy duty plastic bottle traps and 40mm diameter chrome plated outlets with grating firmly fixed on the wall with chrome plated screws. Pipework to be provided with adequate fasteners to the wall.The fittings shall be as Orient or equal approved.	NO	1.00		
	<u>Urinal flush valve -Manual push Button.</u> Manual push button action back inlet top flush valve with 150ml per flush .The valve to have chrome plated connections with synthetic diaphragm and adjustable tailpipe. Valve to be as "tapis GS-5204-1" OR APPROVED EQUIVALET.	NO	1.00		
			-		
	CARRIED TO COLLECTION				

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>brought forward</u>				
	<u>INTERNAL PLUMBING.</u>				
	Supply and install the following Plumbing installation as described and shown on the drawing. All pipework and fittings in this installation to be to PP-R Tenderers must allow for jointings, couplings, plugging, clampings, reducers, mortices, hangers, slippings etc necessary for the proper functioning of the installation when pricing.				
1.0	<u>PPR Pipework.</u>				
2.0	25mm diameter pipework.	LM	18.00		
	32mm ditto	LM	12.00		
3.0	<u>Bends.</u>				
4.0	25mm diameter bend	NO	6.00		
	32mm ditto	NO	4.00		
	<u>Valves.</u>				
5.0	32mm gate valve.	NO	1.00		
6.0	25mm ditto	NO	3.00		
	<u>Reducers.</u>				
7.0	32 x 25mm diameter reducer.	NO	4.00		
	<u>Tees.</u>				
8.0	32mm equal Tee.	NO	4.00		
	25mm ditto	NO	8.00		
9.0	<u>Union.</u>				
	25mm diameter pipe unions	NO	6.00		
	32mm ditto	NO	4.00		
10.0	<u>Adaptors /Brass Threaded.</u>				
	25 x 32mm brass threaded male adapter.	NO	6.00		
11.0	<u>Adaptor/Brass Female Threaded.</u>				
	25mm brass threaded adapter.	NO	6.00		
	32mm ditto	NO	4.00		
12.0	<u>Water Storage -10,000L.</u>				
	Supply, deliver and install vertical closed plastic moulded tank of capacity 10,000litres and diameter of 216cm and height of 198cm. Model CCV600 The tank to be assembled complete with 25mm medium pressure ball valve cover and having screwed connections for inlet, outlet, overflow, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a flat roof slab and shall be as KENTANK Model or approved equivalent.				
	Ditto 10,000Litres	NO	3.00		
16.0	Allow for connection of water to the block from the nearest main source of water within the compound including all necessary fittings.	ITEM	1.00		
17.0					

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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	brought forward				
	<u>FOUL WATER DRAINAGE.</u>				
	Supply and fix uPVC soil sytem to BS 4660 and BS 4515 and MuPVC waste systems to BS 5255 with screwed and socked joints to BS 21.Solvent welded joints shall be as per the system s manufacture written instructions.Tenderers must allow in their pipework prices for all the couplings,clippings,connectors ,jointsetc.for the proper and satisfactory functioning of the system.				
1.0	<u>MuPVC and Upvc waste and soil pipework.</u>				
2.0	100mm diameter heavy gauge grey mupvc pipe	LM	18.00		
3.0	50mm ditto	LM	10.00		
	40mm ditto	LM	8.00		
	<u>Traps.</u>				
4.0	100 x 50mm diameter floor trap and grating	NO	3.00		
	<u>Bends.</u>				
5.0	100mm diameter long radius bend.	NO	4.00		
6.0	100mm ditto sweep bend	NO	4.00		
	50mm ditto	NO	3.00		
7.0	40mm ditto	NO	3.00		
8.0	<u>Tees</u>				
	100mm diameter sweep tee.	NO	5.00		
	50mm ditto	NO	2		
9.0	40mm ditto	NO	3		
10.0	<u>Access Caps.</u>				
	100mm diameter access cap	NO	4		
11.0	50mm ditto	NO	3		
	40mm ditto	NO	2		
	<u>Boss Connectors.</u>				
12.0	100 x 50mm diameter boss connector.	NO	3		
	<u>WC Connectors</u>				
13.0	100mm diameter WC connector.	NO	3		
	<u>Double branches.</u>				
14.0	100mm diameter double branch.	NO	2		
	<u>Plumbing and Drainage.</u>				
15.0	Allow for connection of sanitary fittings to the plumbing and drainage pipework.	ITEM	1.00		
	<u>Testing and Commissioning.</u>				
16.0	Allow for testing and commissioning of both drainage and plumbing systems	ITEM	1.00		
17.0					
18.0					
	SUPERSTRUCTURE CARRIED TO SUMMARY				
19.0					

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	brought forward				
	<u>Manhole.</u>				
1.0	600 x 450mm manhole with heavy duty cover Manual depth to be determined on site a minimum of 600mm.	NO	3.00		
	<u>Excavation.</u>				
2.0	Excavation trench for 100mm pipe not exceeding 150mm deep and average 250mm deep, part return in,fill & surplus cart away.	LM	15.00		
3.0	Allow for connection of the sewer line to BIODIGESTER.	ITEM	1.00		
	CARRIED TO COLLECTION				

Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>brought forward</u>				
	<u>PORTABLE FIRE.</u>				
	Supply,deliver,install,test and commission the following portable fire extinguishers and conforming to BS EN3/BS 1449.				
	<u>Water/Carbon Dioxide Gas Fire.</u>				
1.0	9litres water/carbon dioxide gas portable fire extinguisher completes with pressure gauge initial charge and mounting brackets.	NO	1.00		
	<u>Carbon dioxide.</u>				
2.0	5kg carbon dioxide gas portable fire extinguisher complete pressure gauge initial charge and mounting brackets.	NO	1.00		
	<u>Dry Chemical Powder Fire Extinguisher.</u>				
3.0	6kg dry chemical powder portable fire extinguisher complete with pressure gauge,initial charge and mounting brackets.	NO	1.00		
	<u>Manual Alarm Bell.</u>				
4.0	9" (225mm) manual alarm bell (Gong)	NO	2.00		
	<u>Fire Notices.</u>				
5.0	Allow for fire signage for the fire exist and fire instructions as directed by the Project Engineer.	NO	2.00		
	<u>Sweep Fans.</u>				
6.0	Commercial Sweep fans with triple blades with sweep diameter of 900mm,min speed of 350sm capacity 8761cm/hr,2 speed power rating 50watts,overall drop height of 375/750mm .To be complete with control remote switch capable of reversible operation.It shall be as Xpelair model. whisper NWAN36 or an equal and approved equivalent.	NO	11.00		
	CARRIED TO COLLECTION				

	SANITARY FITTINGS CARRIED TO SUMMARY.				
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Item	Description	Unit	Qty	Rate KShs	Amount KShs
	<u>PRIME COST AND PROVISIONAL</u>				
	<u>SUMS PROVISIONAL SUMS</u>				
1.0	Allow a provisional sum of kenya shillings One Hundred and fifty Thousand Only (kes,150,000) for contingencies.	item	1.00		
2.0	Allow a provisional sum of Kenya Shillings Fifty Thousand Only (KES,50,000) for branding and labelling of the digital hub as directed by the project manager.	item	1.00		

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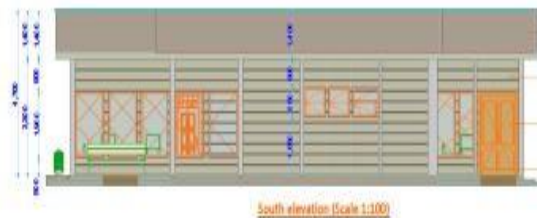
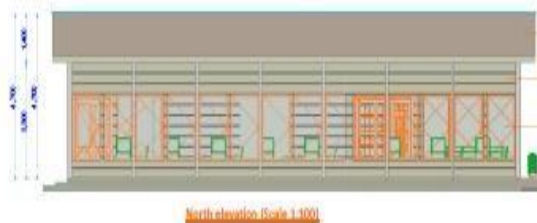
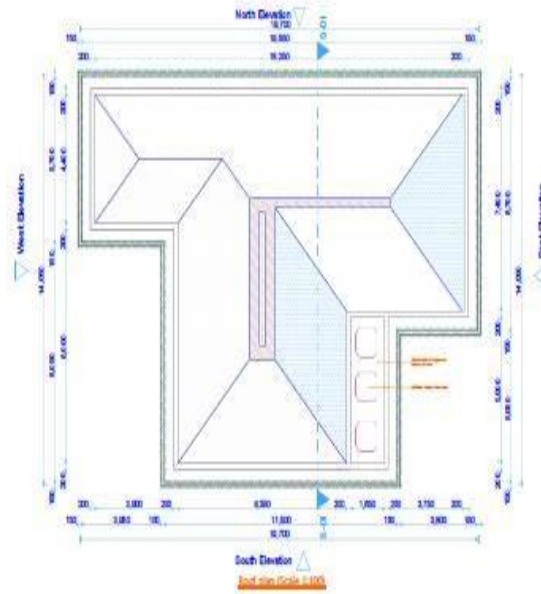
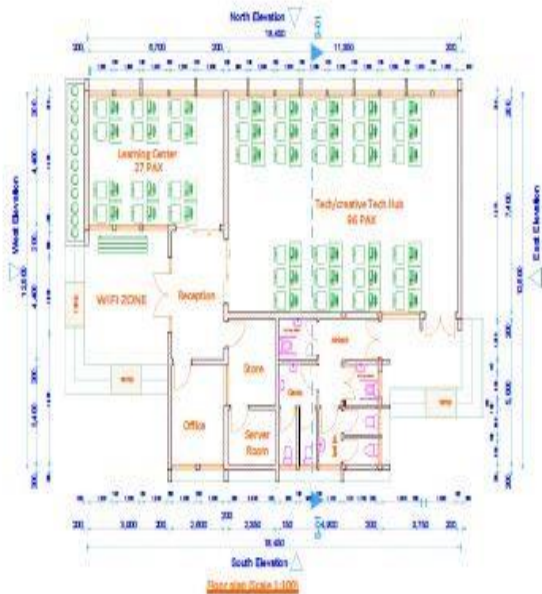
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
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	<u>STRUCTURED CABLING.</u>				
	<u>TRANINIG ROOM.</u>				
1.0	Faceplates	NO	50		
2.0	Knockouts	NO	18		
3.0	AP-WIFI	NO	1		
4.0	ModulesGIGANET	NO	50		
5.0	3MPATCHORD	NO	50		
6.0	50 X 150 Trunking	LM	10		
7.0	CAT6 Cable	LM	6		
	<u>WORKING AREA</u>				
8.0	Faceplates	NO	50		
9.0	Knockouts	NO	18		
10.0	AP-WIFI	NO	1		
12.0	ModuleGIGANET.	NO	50		
13.0	3MPATCHORD.	NO	50		
14.0	50 X 150 trucking	LM	10		
15.0	CAT6 Cable.	LM	6		
	<u>ADMINISTRATION.</u>				
16.0	Faceplates	NO	8		
17.0	Knockouts	NO	8		
18.0	AP-WIFI.	NO	1		
19.0	ModulesGIGANET.	NO	8		
20.0	3MPATCHORD.	NO	8		
21.0	50 X 150 trucking.	LM	4		
	TOTALS CARRIED TO FORWARD.				

QUOTATION FOR INSTALLATION OF AREA LOCAL NETWORK

[illegible]

Ite m	Description	Quantity	Unit	Rate	Amount
	GRAND SUMMARY PAGE				
1	ICT HUB MAIN		kes		
2	SANITARY FITTINGS		kes		
3	INSTALLATION OF LOCAL AREA NETWORKS		kes		
4	PROVISIONAL SUM		kes		
5	ALLOW KSH 451,712 FOR PROJECT MANAGEMENT EXPENSES		kes		
	SUBTOTAL				
	ADD 0.03%				
	FOR PUBLIC PROCUREMENT CAPACITY BUILDING LEVY				
	ADD 16% V.A.T				
	GRAND TOTAL CARRIED TO FORM OF TENDER INCLUDING 16% V.A.T				
	Contractor's Name and address Date..... Signature..... Witness's Name and Address Date..... Signature.....				



NOTES

GENERAL

1. All dimensions in mm
2. No scaling of drawing. Contractor to check all dimensions and setting out and confirm with architect and/or engineer as necessary
3. Any discrepancy should be notified immediately to the designer and clarified by consulting the respective consultants' drawings.
4. Permanent vents (pvt) to be provided to all windows and doors except fire doors.

STRUCTURAL

9. AIE RC works to let its stance known to engineers' family.

MECHANICAL.

11. All plumbing and drainage to comply with BSFV's specifications.
12. All service ducts to be accessible from all floors.
13. Drip and/or anti-vapour to all fittings connected to the SVPS or waste pipe.
14. All bonds and junctions to have inspection plate.
15. Drain pipe passing beneath buildings and driveway to be situated in 150mm concrete channel.
16. All underground soil and waste drain pipe shall be cast into to comply to BS8117:14 and S225.

ELECTRICAL

- 26. All Electrical works must be co-ordinated with mechanical works.
- 27. Any works must be clarified before work



NG-CIS
Lapalme Courtois

SHEET 001			
DATE	TO	APPROVAL	TO
SHEET 002			
NO	DATE	NAME	TIME

1	2	3	4
EXPENSES IN 2010			
TOTAL 2010			
COMPARISON OF 2010 TO 2009			

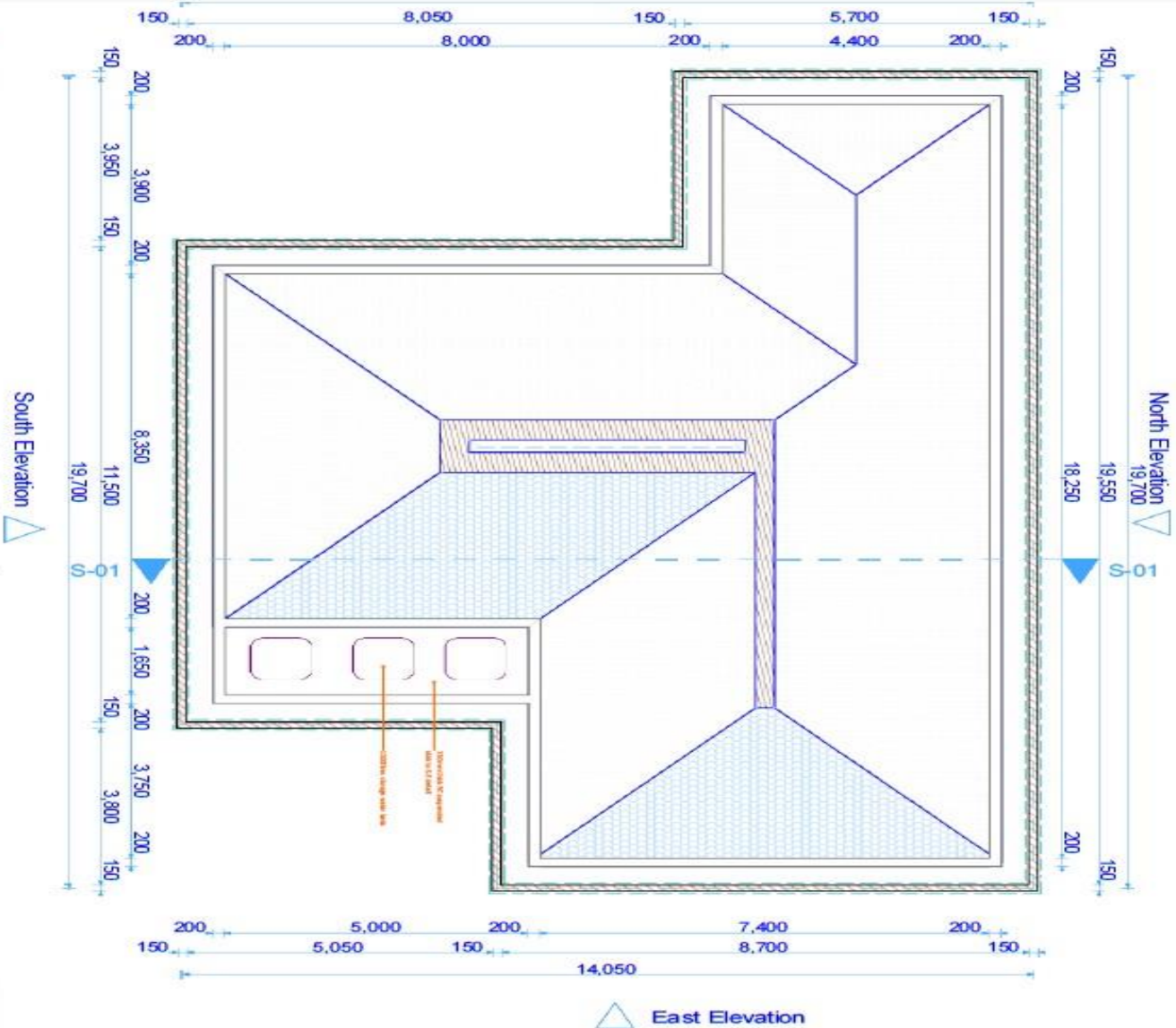
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APPROVED BY:			
(CHIEF ENGINEER/ARCHITECTURE)			
	SIGN	DATE	

CONTRACT NO.	CONTRACT NAME	DATE
CONTRACT NO.	CONTRACT NAME	DATE

7TH NOVEMBER 2024



NOTES

GENERAL

1. All dimensions in mm
2. No scaling of drawing. Contractor to check all dimensions and setting out and confirm with architect
3. Any discrepancy should be notified immediately and or engineer as necessary.
3. Any discrepancy should be notified immediately to the designer and clarified by consulting the respective consultants' drawings.
4. Permanent vents (pv) to be provided to all windows and doors except wc doors.

STRUCTURAL

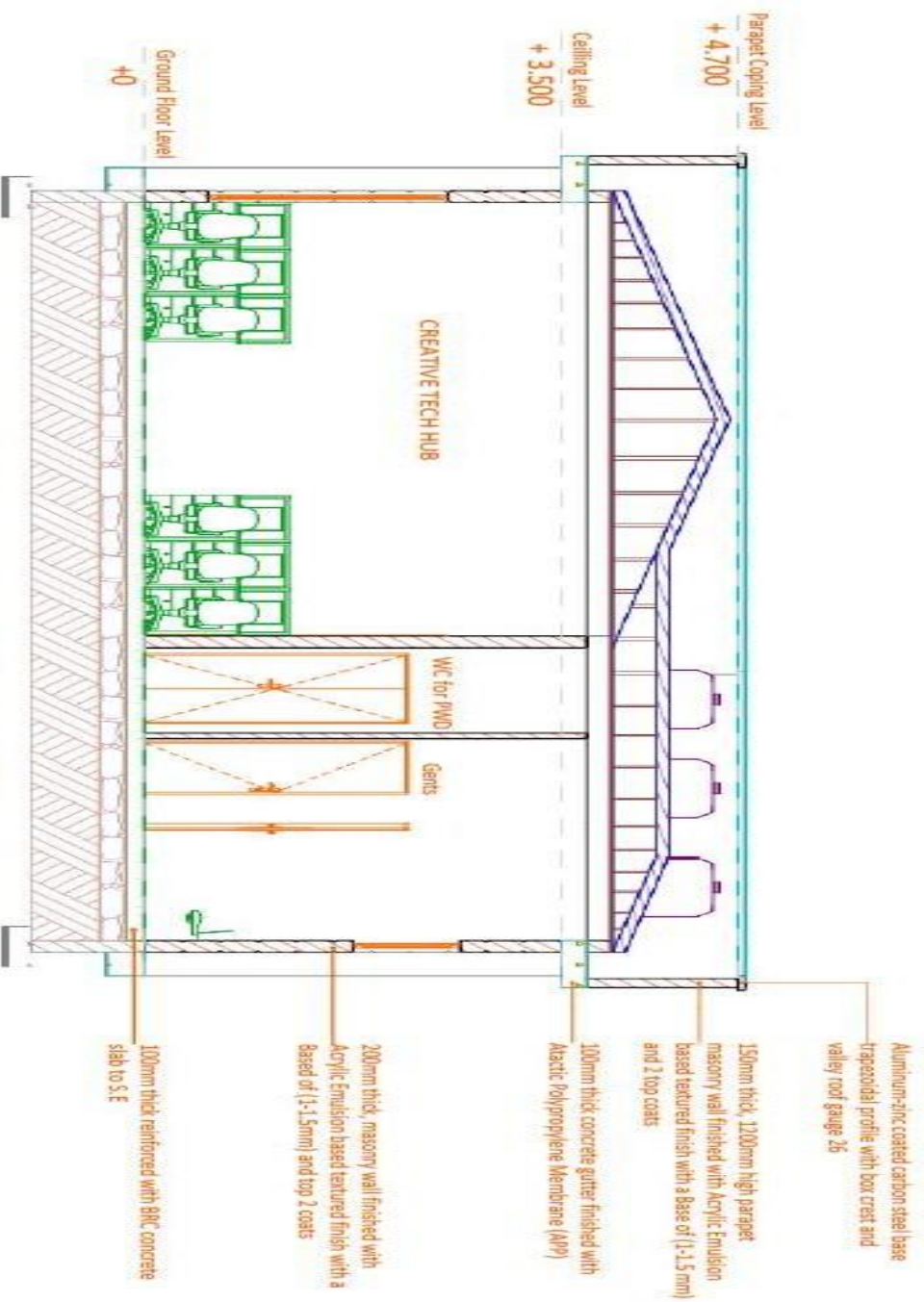
9. All RC works to be in accordance to engineer's detail.

MECHANICAL

11. All plumbing and drainage to comply with MoPW's specification.
12. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVP's or waste pipes.
15. All bends and junctions to have inspection plates.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concert surround
17. All underground foul and waste drain pipes shall be cast iron to comply to BBS41514 and 5225.

ELECTRICAL

26. All Electrical works must be co-ordinated with mechanical works.
27. Any conflicts must be clarified before work



Building section -01 (Scale 1:100)