

# **BILLS OF QUANTITIES**

**AND**

**SPECIFICATIONS**

**FOR**

**PROPOSED CONSTRUCTION OF REGIONAL OFFICES - NYERI  
COUNTY.**

**FOR**

**NG-CDF BOARD**

**MAY 2025**

# PRELIMINARIES

Item	Description	Unit	Qty	Rate	Amount
	<b>BILL NO. 1</b>				
	<b>GENERAL PRELIMINARIES</b>				
	Compliance with Safety, Health & Environment Regulations	Item	1.00		
	10% Performance Bond	Item	1.00		
	Insurance of the Works	Item	1.00		
	Third Party Insurance Cover	Item	1.00		
	Workmen's Compensation	Item	1.00		
	Training Levy	Item	1.00		
	Temporary Facilities, Site Offices, Telephone, Power & Water	Item	1.00		
	Plant, Tools and Scaffolding	Item	1.00		
	Watching and Lighting	Item	1.00		
	Locating & Isolating Services	Item	1.00		
	Provisional Sum for Materials Testing & Site Control	Item	1.00		
	Occupation Certificate	Item	1.00		
	As built drawings for electrical, plumbing & drainage,	Item	1.00		
	Access to site	Item	1.00		
	Transport to and from site	Item	1.00		
	Setting Out	Item	1.00		
	Cleaning	Item	1.00		
	Protection of Adjacent Properties	Item	1.00		
	Temporary Hoarding, incl. NCC permits. Remove on completion	Item	1.00		
	<b>Carried to Main Summary</b>				

**SECTION A: REGIONAL OFFICE BUILDER'S WORK**

Item	Description	Qty	Unit	Rate	Amount
	<b>BILL NO. 2: SUBSTRUCTURES</b>				
	<b>ELEMENT NO.1</b>				
	<b>SUB-STRUCTURE</b>				
	<b>All Provisional</b>				
	<b>Site Clearance</b>				
A	Clear site of bushes, scrub, undergrowth and cut down small trees not exceeding 600mm girth and grub up roots; uproot tree stumps of various diameters including grubbing up roots; load and remove from site and transport to approved county tip/disposal point.	241	SM		
	<b>Excavations</b>				
	<b>General excavations to include excavating in loam, clay, black cotton soil, red soil or any soil which does not require ripping or use of compressor tools</b>				
B	Excavate average 200mm deep to remove top soil : cart away arising to approved county tip.	241	SM		
C	Excavate trenches for strip foundation: depth not exceeding 1.50m commencing from stripped level.	76	CM		
D	Excavate pits for column bases: ditto	42	CM		
E	Extra over excavation for excavating in all classes of rock; irrespective of hardness/type.	1	CM		
F	Allow for cut and fill to slopping areas	1	ITEM		
	<b>Disposal of excavated materials</b>				
	<b>Return, fill and ram</b>				
G	Backfill and compact in layers : selected excavated material around foundations : placed in 200mm thick layers : well watered and compacted to 95% MDD; allow for re-excavation and wheeling from temporary spoil heaps.	72	CM		
H	Surplus excavated materials : remove, load and cart away from site to an approved county tip.	47	CM		
	<b>Planking and strutting</b>				
I	Planking and strutting to sides of all excavations : keep excavations free form all fallen materials	1	ITEM		
	<b>Disposal of water</b>				
J	Keep excavations free from all water by baling, pumping or otherwise	1	ITEM		
	<b>Carried to collection</b>				

Item	Description	Qty	Unit	Rate	Amount
	<b><u>In situ concrete : class 15/25mm</u></b>				
A	50mm thick mass concrete to column bases	28	SM		
B	Ditto under strip footing	51	SM		
	<b><u>In situ concrete : Class 20: vibrated : reinforced</u></b>				
C	Column bases	9	CM		
D	Starter Columns	2	CM		
E	Strip foundation footing	11	CM		
F	150mm slab	210	SM		
G	150mm thick ramp	52	SM		
H	50mm thick precast concrete paving slabs (1:2:4) with joints in cement mortar (1:4) pointed and laid on murrum and hardcore bed including excavating 150mm deep	76	SM		
	<b><u>Ribbed: Mild steel bar reinforcement to BS 4449 and High tensile steel bar reinforcement to BS 4461 (Provisional)</u></b>				
I	Assorted bars	2200	KG		
	<b><u>Sawn formwork: to</u></b>				
J	Sides: columns	22	SM		
K	Ditto foundation	34	SM		
L	Edges of slab not exceeding 75mm high	63	LM		
M	BRC Fabric mesh reinforcement Ref. A142 including side and end laps, stools and binding wire.	210	SM		
	<b>Carried to collection</b>				

Item	Description	Qty	Unit	Rate	Amount
A	<p><u>Approved quality local stone; minimum load bearing (7N/mm<sup>2</sup>) block walling: medium chisel dressed : in regular courses : in cement and sand (1:3) mortar; with and including 20 gauge hoop iron wall ties 25mm wide cast into concrete and built into walling</u></p> <p>200mm Thick walling</p>	106	SM		
B	<p><u>Hardcore</u></p> <p>Approved quarry stone hardcore filling : 300mm thick (overall) : deposit, handpack, level and compact in layers not exceeding 150mm thick : to receive 100mm slab (m/s)</p>	190	SM		
C	<p><u>Murram blinding</u></p> <p>50mm Thick approved quality murram blinding to surfaces of hardcore, rolled smooth.</p>	190	SM		
D	<p><u>Anti-termite treatment</u></p> <p>Termidor 25EC Anti-termite chemical treatment, or other equal and approved anti-termite insecticide: applied by approved professional pest control specialist</p>	190	SM		
E	<p><u>Damp Proof Membrane</u></p> <p>1000 Gauge polythene sheet damp proofing membrane laid over hardcore bed, laid in minimum 150mm side laps; (measured nett - no allowances made for laps) - Allow for laps</p>	190	SM		
F	<p><u>Plinths</u></p> <p>12mm thick cement and sand (1:4) render to plinth woodfloat finish</p>	24	SM		
G	<p>Prepare and apply three coats bitumastic paint to rendered plinth</p>	24	SM		
	<b>Carried to collection</b>				

Item	Description	Qty	Unit	Rate	Amount
	<u>COLLECTION</u> From page 1  From page 2  From page 3				
	<b>TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY</b>				

Item	Description	Qty	Unit	Rate	Amount
	<b><u>BILL NO.3</u></b> <b><u>LOWER GROUND FLOOR</u></b> <b><u>ELEMENT NO.1</u></b> <b><u>REINFORCED CONCRETE SUPERSTRUCTURE</u></b>				
	<b><u>Insitu concrete : Class 20/20 mm : vibrated : reinforced</u></b>				
A	Vibrated Reinforced Concrete class 20/20 to columns	4	CM		
B	Ditto to ring beams	9	CM		
C	150mm thick suspended slab	158	SM		
	<b><u>Ribbed Mild steel bar reinforcement to BS 4449 and High tensile steel bar reinforcement to BS 4461 (Provisional)</u></b>				
D	Assorted bars	3196	KG		
	<b><u>Formwork</u></b> <b><u>Sawn formwork : to</u></b>				
D	Vertical sides of columns	52	SM		
E	Sides and soffits of beams	102	SM		
F	Soffits of suspended slab	158	SM		
G	Vertical edges of slab 75-150mm thick	63	LM		
	<b>TOTAL FOR SUPERSTRUCTURES CARRIED TO SUMMARY</b>				

Item	Description	Qty	Unit	Rate	Amount
	<b>ELEMENT NO. 2</b> <b>WALLING</b>				
	<u>Selected and approved quality local stone blocks : regular coursed walling of uniform colour : 200mm course heights : medium chisel dressed finish to one face : horizontal recessed joints ; flush vertical joints bedded and jointed in cement and sand (1:3); reinforced with 20 gauge 25mm hoop iron strips laid horizontally every alternate course</u>				
A	200mm;Externally	83	SM		
B	Ditto internally	95	SM		
C	Precast Vent blocks to details	24	SM		
D	200mm wide damp proof course laid in cement and sand (1:4) bed	95	LM		
E	Extra over medium chisel dressed walling for neatly recessed horizontal joints	83	SM		
F	150x200mm precast concrete permanent vents with mosquito gauze wire build in walling	16	PR		
	<b>TOTAL FOR WALLING CARRIED TO SUMMARY</b>				

Item	Description	Qty	Unit	Rate	Amount
	<b><u>ELEMENT NO.3</u></b> <b><u>DOORS</u></b>				
	<b><u>Mild Steel Doors</u></b>				
A	Purpose-made double steel door overall size 2700 x 2700mm high including 5mm glass inserts, siddelights and transom all in one coat primer, complete with lock accessories	1	NO		
B	Ditto; overall size 1500 x 2700mm high	1	NO		
	<b><u>Prepare and apply 3 coats of approved gloss paint to exposed steel surfaces</u></b>				
C	Steel door surfaces	46	SM		
	<b><u>Timber doors</u></b>				
D	45mm Thick solid core wooden panel door overall size 900 x 2100mm high: to Project Manager's detail	2	NO		
E	Ditto 1000x2100mm	2	NO		
	<b><u>In wrot cypress, prime grade</u></b>				
F	100 x 50mm moulded frames.	26	LM		
G	75 x 25mm moulded architrave	26	LM		
H	100 x 25mm transome	4	LM		
I	25 x 25mm quadrants	26	LM		
	<b><u>Prepare surfaces: apply three coats first quality gloss oil paint or other equal approved to:</u></b>	20.52			
J	General timber surfaces.	21	SM		
K	Over 100 but not exceeding 200 mm girth	26	LM		
L	Not exceeding 100 mm girth.	4	LM		
	<b>Carried to collection</b>				

Item	Description	Qty	Unit	Rate	Amount
A	<b>Glazing</b> 5mm thick clear sheet glass held in fanlight by beading	2	SM		
B	<b>Iron Mongery</b> Three lever mortice union lock complete with all handles	3	NO		
C	Ditto 2 lever	4	NO		
D	100mm pressed Brass butt hinges	6	PRS		
E	25mm diameter rubber door stops fixed to wall with rawl bolt	6	NO		
	<b>Carried to collection</b>				

Item	Description	Qty	Unit	Rate	Amount
	<u>COLLECTION</u> From page 13  From page 14				
	<b>TOTAL FOR DOORS CARRIED TO SUMMARY</b>				

Item	Description	Qty	Unit	Rate	Amount
	<b><u>ELEMENT NO.4</u></b> <b><u>WINDOWS</u></b>				
	<b><u>Purpose-made steel casement windows in one coat primer and two coats gloss oil paint complete with permanent vents, burglar proofing bars and locking accessories.</u></b>				
A	Window overall size 2400mm x 1800mm high; to Project Manager's detail.	2	NO		
B	Ditto size 1500x1800mm	6	NO		
C	Ditto size 900x2100mm	2	NO		
	<b><u>Glazing</u></b>				
D	5mm Thick clear sheet glass panes over 0.5 but not exceeding 1.0 square meters; fixing with putty	30	SM		
	<b><u>Painting and Decoration on metalwork</u></b> <b><u>Prepare and apply three coats of premium quality super gloss oil paint as approved to;</u></b>				
E	General window surfaces	120	SM		
F	265x75mm precast window cill in concrete (1:2:4) including moulds, throating, top weathered and hoist and fix in position	20	LM		
	<b><u>Curtain rods</u></b>				
G	25mm diameter approved wrought iron front and rear curtain rods cut to length complete with fixing runners and end stops and screwed or plugged to wall to Architects' approval.	17	LM		
	<b>TOTAL FOR WINDOWS CARRIED TO SUMMARY</b>				

Item	Description	Qty	Unit	Rate	Amount
	<b>ELEMENT NO.5</b>				
	<b>FINISHES</b>				
	<b>Render, Plasterwork and Screeds</b>				
	<u>Prepare and apply 12mm (minimum) thick backing cement and sand (1:4): steel trowelled finish: on concrete blockwork or stonework : to</u>				
A	Walls to receive paint.	272	SM		
B	To slopping soffits of ramp	28	SM		
	<u>Backing; cement and sand 1:4 with approved integral dust proofing additive wood floated</u>				
C	15mm Thick to receive ceramic tiles.	19	SM		
	<u>Cement and sand (1:4) trowelled screeds : on concrete : to</u>				
D	32mm Floors : finished to receive ceramic tile flooring	120	SM		
E	Ditto to ramp	28	SM		
	<b>Wall Tiles</b>				
	<u>Provide a prime cost sum as indicated for supply of:</u>				
F	200 x 400 x 8mm non-slip ceramic tiles to plastered surfaces	19	SM	1,200	22,800
	<u>Take delivery &amp; fix coloured glazed ceramic wall tiles as approved by the Architect : on and including cement and sand backing ; fixed with approved quality adhesive : grouted, jointed and pointed in matching colour cement mortar : on</u>				
G	200 x 400 x 8mm non-slip ceramic tiles to plastered surfaces	19	SM		
H	100mm thick skirting	20	LM		
	<u>Prepare and apply three coats of premium quality silk vinyl emulsion paint as approved to:-</u>				
I	Walls; internal	253	SM		
J	Ditto; ramp soffits	28	SM		
	<b>Floor finishes</b>				
	<u>Provide a prime cost sum as indicated for supply of:</u>				
K	400 x 400mm ceramic floor tiles	130	SM	1,500	195,000
	<b>Carried to collection</b>				

Item	Description	Qty	Unit	Rate	Amount
	<b><u>Take delivery &amp; fix coloured glazed non-slip ceramic floor tiles: as selected by the Architect : on screeded bed (m/s) jointed, pointed and grouted in matching colour cement mortar</u></b>				
A	400 x 400mm ceramic floor tiles	113	SM		
B	100mm high ceramic skirting.	97	LM		
C	Ditto non-slip rustic ceramic tiles	7	SM		
	<b><u>External wall finish</u></b>				
	<b><u>Cement and sand(1:3) render:</u></b>				
D	To concrete/ masonry surfaces	107	SM		
E	Prepare and apply three coats of exterior quality emulsion permacote paint with Teflon as "Crown Paints" or equal and approved equivalent; to rendered surfaces	107	SM		
	<b><u>Ceiling finishes</u></b>				
F	To concrete/ masonry surfaces	120	SM		
G	Prepare and apply three coats of plastic emulsion paint to rendered ceiling surfaces( Brilliant white) including skimming sand and leave smooth surfaces	120	SM		
	<b><u>Balustrading</u></b>				
H	900mm high overall height railing : comprising : 40x40x2 mm RHS vertical balusters fish-tailed and built into concrete at 600mm centers : 3No. 40mm x 20mm horizontal RHS rails, 50mm diameter hand rail including all necessary welds and grinding grouting and making good; complete	23	LM		
	<b><u>Prepare and apply one coat red oxide primer and two coats of gloss oil paint to:-</u></b>				
I	General surfaces of metal (Both sides measured)	42	SM		
	<b>Carried to collection</b>				

Item	Description	Qty	Unit	Rate	Amount
	<u>COLLECTION</u>  From page 17  From page 18				
	<b>TOTAL FOR FINISHES CARRIED TO SUMMARY</b>				

Item	Description	Qty	Unit	Rate	Amount
	<u>LOWER GROUND SUMMARY</u>				
1	RC SUPERSTRUCTURES				
2	WALLING				
3	DOORS				
4	WINDOWS				
5	FINISHES				
	<b>TOTAL FOR BUILDER'S WORK</b>				

Item	Description	Qty	Unit	Rate	Amount
	<b>BILL NO.3</b> <b>UPPER FLOOR</b> <b>ELEMENT NO.1</b> <b>REINFORCED CONCRETE SUPERSTRUCTURE</b>				
	<u>Insitu concrete : Class 20/20 mm : vibrated : reinforced</u>				
A	Columns	4	CM		
B	Ring beams	9	CM		
	<u>Ribbed Mild steel bar reinforcement to BS 4449 and High tensile steel bar reinforcement to BS 4461 (Provisional)</u>				
C	Assorted bars	1300	KG		
	<u>Formwork</u> <u>Sawn formwork : to</u>				
D	Vertical sides of columns	52	SM		
E	Sides and soffits of beams	82	SM		
	<b>TOTAL FOR SUPERSTRUCTURES CARRIED TO SUMMARY</b>				

Item	Description	Qty	Unit	Rate	Amount
	<b><u>ELEMENT NO. 2</u></b> <b><u>WALLING</u></b>				
	<u>Selected and approved quality local stone blocks : regular coursed walling of uniform colour : 200mm course heights : medium chisel dressed finish to one face : horizontal recessed joints ; flush vertical joints bedded and jointed in cement and sand (1:3); reinforced with 20 gauge 25mm hoop iron strips laid horizontally every alternate course</u>				
A	200mm;Externally	122	SM		
B	Ditto internally	141	SM		
C	Ditto 150mm	7	SM		
D	Ditto 100mm	11	SM		
E	Precast Vent blocks to details	24	SM		
F	200mm wide damp proof course laid in cement and sand (1:4) bed	125	LM		
G	Extra over medium chisel dressed walling for neatly recessed horizontal joints	122	SM		
H	150x200mm precast concrete permanent vents with mosquito gauze wire build in walling	25	PR		
	<b>TOTAL FOR WALLING CARRIED TO SUMMARY</b>				

Item	Description	Qty	Unit	Rate	Amount
	<b><u>ELEMENT NO.3</u></b> <b><u>ROOFING AND RAINWATER HARVESTING</u></b> <b><u>All Provisional</u></b>				
	<b><u>TIMBER STRUCTURE &amp; COVERING</u></b> <b><u>Prepainted galvanized sheets gauge 28 (or other equal and approved) laid on purlins to main roof level; as described to:-</u></b>				
A	Coverings to 25degrees slopping timber framed roof : nailed every third course.	SM	280		
	<b><u>Roofing accessories to match roofing tiles as described to:</u></b>				
B	Standard ridge and hip capping	m	55		
C	Standard ridge end piece	No	5		
	<b><u>Sheet metal flashing : 18 gauge galvanised mild steel</u></b>				
D	Valley gutter lining 475mm girth : six labours : dressed under roofing sheets each side with 150mm laps : fixed to timber valley rafters	m	16		
	<b><u>Unplasticised PVC panel boards</u></b>				
E	8mm thick heavy gauge UPVC panel to eaves boarding on and including 50 x 50mm brandering	m2	30		
F	25 x 250mm Fascia or barge board	m	75		
	<b><u>Prepare and knot coated surfaces : prime and apply three coats polyurethane clar varnish : on wood</u></b>				
G	General surfaces : eaves boarding	m2	30		
	<b><u>Prepare and knot coated surfaces : prime and apply two undercoats and one finishing coat gloss paint : on wood</u></b>				
H	Fascia : over 200 but not exceeding 300mm girth	m	75		
	<b>Carried to collection</b>				

Item	Description	Qty	Unit	Rate	Amount
	<b><u>Roof Structure (Provisional)</u></b>				
	<b><u>Structural timbers : sawn cypress : pressure impregnated . Rate to including all bolting, nailing and fixing into place with and including gms diameter bolts with nuts and washers; gusset plates with holes; drilling of holes in timber for bolts; sizes of bolts, plates and holes to approval to:</u></b>				
A	50 x 75mm Purlins spaced at 400mm centres for hanging and nailing roofing tile (m/s)	m	255		
B	50 x 100mm Wall plate : fixed with and including 12mm diameter mild steel ragbolt 150mm long at 900mm centres ; cast in ring beams.	m	88		
C	50 x 100mm Common rafters.	m	220		
D	50 x 150mm Valley rafter	m	16		
E	50 x 200mm Ridge board.	m	27		
	<b><u>The following in 1 No truss (Truss T1) spanning 7212mm and 2378mm high : hoisting and fixing at 6600mm above ground level</u></b>				
F	150 x 50mm Trussed rafters	m	9		
G	100 x 50mm King post	m	3		
H	150 x 50mm Ceiling joists	m	8		
I	100 x 50mm Struts and ties	m	13		
	<b><u>The following in 3 No truss (Truss T2) spanning 5700mm and 2378mm high : hoisting and fixing at 6600mm above ground level</u></b>				
J	150 x 50mm Trussed rafters	m	24		
K	100 x 50mm King post	m	8		
L	150 x 50mm Ceiling joists	m	18		
M	100 x 50mm Struts and ties	m	27		
	<b>Carried to collection</b>				

Item	Description	Qty	Unit	Rate	Amount
	<u>The following in 3 No truss (Truss T3) spanning 10200mm and 1446mm high : hoisting and fixing at 6600mm above ground level</u>				
A	150 x 50mm Trussed rafters	m	38		
B	100 x 50mm King post	m	5		
C	150 x 50mm Ceiling joists	m	31		
D	100 x 50mm Struts and ties	m	46		
	<u>The following in 3 No truss (Truss T4) spanning 6200mm and 1446mm high : hoisting and fixing at 6600mm above ground level</u>				
E	150 x 50mm Trussed rafters	m	26		
F	100 x 50mm King post	m	5		
G	150 x 50mm Ceiling joists	m	19		
H	100 x 50mm Struts and ties	m	15		
	<u>The following in 1 No truss (Truss T5) spanning 10200mm and 2378mm high : hoisting and fixing at 6600mm above ground level</u>				
I	150 x 50mm Trussed rafters	m	12		
J	100 x 50mm King post	m	3		
K	150 x 50mm Ceiling joists	m	11		
L	100 x 50mm Struts and ties	m	25		
	<u>The following in 1 No truss (Truss T6) spanning 10200mm and 2378mm high : hoisting and fixing at 6600mm above ground level</u>				
M	150 x 50mm Trussed rafters	m	13		
N	100 x 50mm King post	m	3		
O	150 x 50mm Ceiling joists	m	11		
P	100 x 50mm Struts and ties	m	14		
	Carried to collection				

Item	Description	Qty	Unit	Rate	Amount
	<b><u>The following in 1 No truss (Truss T7) spanning 5100mm and 2378mm high : hoisting and fixing at 6600mm above ground level</u></b>				
A	150 x 50mm Trussed rafters	m	7		
B	100 x 50mm King post	m	3		
C	150 x 50mm Ceiling joists	m	6		
D	100 x 50mm Struts and ties	m	7		
	<b><u>Supply and fix the following Unplasticised PVC rainwater pipes and fittings;solvent welded joints)</u></b>				
E	150mm gutters fixed to fascia board with holder bats	60	LM		
F	100mm Diameter down pipes fixed to wall with clips	35	LM		
	<b><u>Extra - over for</u></b>				
G	100 mm Diameter outlets	5	NO		
H	Rainwater swanneck bend	5	NO		
I	Stopped ends	5	NO		
J	Rainwater anti-splash shoe	5	NO		
	<b>Carried to collection</b>				



Item	Description	Qty	Unit	Rate	Amount
	<b><u>ELEMENT NO.4</u></b>				
	<b><u>DOORS</u></b>				
	<b><u>Timber doors</u></b>				
A	45mm Thick solid core wooden panel door overall size 900 x 2100mm high: to Project Manager's detail	11	NO		
B	Ditto 1000x2100mm	3	NO		
	<b><u>In wrot cypress, prime grade</u></b>				
C	100 x 50mm moulded frames.	90	LM		
D	75 x 25mm moulded architrave	90	LM		
E	100 x 25mm transome	15	LM		
F	25 x 25mm quadrants	90	LM		
	<b><u>Prepare surfaces: apply three coats first quality gloss oil paint or other equal approved to:</u></b>				
G	General timber surfaces.	150	SM		
H	Over 100 but not exceeding 200 mm girth	90	LM		
I	Not exceeding 100 mm girth.	15	LM		
	<b><u>Glazing</u></b>				
J	5mm thick clear sheet glass held in fanlight by beading	5	SM		
	<b><u>Iron Mongery</u></b>				
K	Three lever mortice union lock complete with all handles	5	NO		
L	Ditto 2 lever	3	NO		
M	100mm pressed Brass butt hinges	21	PRS		
N	25mm diameter rubber door stops fixed to wall with rawl bolt	10	NO		
O	Indicator lock "Vacant/Engaged	5	NO		
	<b>TOTAL FOR DOORS CARRIED TO SUMMARY</b>				

Item	Description	Qty	Unit	Rate	Amount
	<b><u>ELEMENT NO.5</u></b>				
	<b><u>WINDOWS</u></b>				
	<b><u>Purpose-made steel casement windows in one coat primer and two coats gloss oil paint complete with permanent vents, burglar proofing bars and locking accessories.</u></b>				
A	Window overall size 2400mm x 1800mm high; to Project Manager's detail.	1	NO		
B	Ditto size 1800x1800mm	2	NO		
C	Ditto size 1500x1800mm	6	NO		
D	Ditto size 1500x900mm	4	NO		
E	Ditto size 900x2100mm	6	NO		
	<b><u>Glazing</u></b>				
F	5mm Thick clear sheet glass panes over 0.5 but not exceeding 1.0 square meters; fixing with putty	40	SM		
G	Ditto obscure	6	SM		
	<b><u>Painting and Decoration on metalwork</u></b>				
	<b><u>Prepare and apply three coats of premium quality super gloss oil paint as approved to;</u></b>				
H	General window surfaces	95	SM		
I	265x75mm precast window cill in concrete (1:2:4) including moulds, throating, top weathered and hoist and fix in position	20	LM		
	<b><u>Curtain rods</u></b>				
J	25mm diameter approved wrought iron front and rear curtain rods cut to length complete with fixing runners and end stops and screwed or plugged to wall to Architects' approval.	25	LM		
	<b>TOTAL FOR WINDOWS CARRIED TO SUMMARY</b>				

Item	Description	Qty	Unit	Rate	Amount
	<b>ELEMENT NO.6</b>				
	<b>FINISHES</b>				
	<b><u>Render, Plasterwork and Screeds</u></b>				
	<b><u>Prepare and apply 12mm (minimum) thick backing cement and sand (1:4): steel trowelled finish: on concrete blockwork or stonework : to</u></b>				
A	Walls to receive paint.	440	SM		
B	To slopping soffits of ramp	28	SM		
	<b><u>Backing; cement and sand 1:4 with approved integral dust proofing additive wood floated</u></b>				
C	15mm Thick to receive ceramic tiles.	72	SM		
	<b><u>Cement and sand (1:4) trowelled screeds : on concrete : to</u></b>				
D	32mm Floors : finished to receive ceramic tile flooring	140	SM		
E	Ditto to ramp	28	SM		
	<b><u>Wall Tiles</u></b>				
	<b><u>Provide a prime cost sum as indicated for supply of;</u></b>				
F	200 x 400 x 8mm non-slip ceramic tiles to plastered surfaces	72	SM	1,200	86,400
	<b><u>Take delivery &amp; fix coloured glazed ceramic wall tiles as approved by the Architect : on and including cement and sand backing ; fixed with approved quality adhesive : grouted, jointed and pointed in matching colour cement mortar : on</u></b>				
G	200 x 400 x 8mm non-slip ceramic tiles to plastered surfaces	72	SM		
H	Extra over plastic corner strips	45	LM		
	<b><u>Prepare and apply three coats of premium quality silk vinyl emulsion paint as approved to:-</u></b>				
I	Walls; internal	368	SM		
J	Ditto; ramp soffits	28	SM		
	<b><u>Floor finishes</u></b>				
	<b><u>Provide a prime cost sum as indicated for supply of;</u></b>				
K	400 x 400mm ceramic floor tiles	174	SM	1,500	261,000
	<b>Carried to collection</b>				

Item	Description	Qty	Unit	Rate	Amount
	<b><u>Take delivery &amp; fix coloured glazed non-slip ceramic floor tiles: as selected by the Architect : on screeded bed (m/s) jointed, pointed and grouted in matching colour cement mortar</u></b>				
A	400 x 400mm ceramic floor tiles	105	SM		
B	100mm high ceramic skirting.	220	LM		
C	Ditto non-slip rustic ceramic tiles	35	SM		
D	100mm high rustic ceramic skirting.	114	LM		
	<b><u>External wall finish</u></b>				
	<b><u>Cement and sand(1:3) render:</u></b>				
E	To concrete/ masonry surfaces	135	SM		
F	Prepare and apply three coats of exterior quality emulsion permacote paint with Teflon as "Crown Paints" or equal and approved equivalent; to rendered surfaces	135	SM		
	<b><u>Ceiling finishes</u></b>				
G	Supply & fix 12mm thick gypsum board on 50 mm steel studwork as Donn Ultrasteel complete with metal edge floor and ceiling trims in accordance with Architect's details.	182	SM		
H	75 x 12mm cornice with two labours plugged	211	LM		
I	50 x 50mm cypress timber bandering	285	LM		
J	Prepare and apply three coats of plastic emulsion paint to general surfaces of gypsum( Brilliant white) including skimming sand and leave smooth surfaces	182	SM		
K	Ditto girth 100-200mm	211	LM		
L	Extra over for gypsum ceiling trap door size 600x600mm with wrot cypress framing 50x50mm with miltre joints	2	NO		
	<b><u>Balustrading</u></b>				
M	900mm high overall height railing : comprising : 40x40x2 mm RHS vertical balusters fish-tailed and built into concrete at 600mm centers : 3No. 40mm x 20mm horizontal RHS rails, 50mm diameter hand rail including all necessary welds and grinding grouting and making good; complete	23	LM		
	<b><u>Prepare and apply one coat red oxide primer and two coats of gloss oil paint to:-</u></b>				
N	General surfaces of metal (Both sides measured)	42	SM		
	<b><u>Carried to collection</u></b>				



Item	Description	Qty	Unit	Rate	Amount
	<u>MAIN SUMMARY</u>				
1	RC SUPERSTRUCTURES				
2	WALLING				
3	ROOFING AND RAINWATER HARVESTING				
4	DOORS				
5	WINDOWS				
6	FINISHES				
	<b>TOTAL FOR BUILDER'S WORK</b>				

**PLUMBING, DRAINAGE & MECHANICAL  
VENTILATION (MAIN BUILDING)**

## BILL NO. 3 SANITARY FITTING&amp; INTERNAL PIPING

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	<b>LADIES</b>				
	<b>Water Closet</b>				
A	Close-coupled WC suite ('S' or 'P'-trap) in approved colour complete with horizontal outlet to BS 3402 with 7.5 litre valveless low level ceramic cistern and fittings including siphon, 15mm diameter side inlet ball valve, 20mm diameter side overflow, plastic flush bend, dual flush system, inlet connection, chrome-plated lever and heavy plastic seat and cover with metal top fixed (chrome plated) hinges. All to be as lecico or equal and approved.	2	No.		
	<b>Flexible Tubing</b>				
B	15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved.	2	No.		
	<b>Toilet Roll Holder</b>				
C	Fully recessed toilet roll holder in vitreous china of size 165 x 165mm in approved colour as Ideal Standard Model Cassara Cat No. 109.000.10 or equal and approved.	2	10		
	<b>Robe Hook</b>				
D	Double-ended bathroom robe hook, made of AISI 304 stainless steel black finish <b>AS DALI OR APPROVED EQUIVALENT</b>	2	No		
	<b>Signage</b>				
E	Signage made of stainless steel, 0.5 mm thick and the subject is embossed in black on the stainless steel. The signs to be circular and have a diameter of 116 mm and they are fixed to the wall by means of a double side tape	1	No		
<b>Total carried to collection page</b>					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Total carried from previous page					
A	<p><b>Wash hand basin (WHB)-Pedestal</b> Pedestal wash hand basin size 560 x 440mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole, chrome plated non-conculsive time delay press action pillar tap as Cobra model and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. To be of IDEAL STANDARD Model-Plan Above Counter 109.003.38 countertops washhand basin or equal and approved.</p>	2	No		
B	<p><b>Wash hand basin tap</b> Free Counter standing pillar tap with Self-closing cartridge, hydraulically controlled, piston-free design, self-closing, stepless adjustment of flow duration <b>AS NEMSI OR APPROVED EQUIVALENT</b></p>	2	No		
C	<p><b>Flexible Tubing</b> 15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved.</p>	2	No.		
D	<p><b>Soap Dispenser</b> Wall mounted soap dispenser with a capacity of about one litre having a press action soap release mechanism complete with fixing screws. Allow for initial soap supply. To be as NEMSI soap dispenser or approved equivalent.</p>	1	No.		
E	<p><b>Hand Driers</b> Automatic hand drier in white colour, operating on an infra-red automatic sensing system with heating element safety cut-out complete with a 30 seconds safety timer, plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1kw and performance flow rate of 135cfm (3.82m<sup>3</sup>/min) and to be of size 270x264x143mm deep It shall have a noise level below 72.5 dBA at 1.5m. It shall be as Medclinic or approved equivalent.</p>	1	No.		
F	<p><b>Mirror</b> 6mm thick polished plate glass silver backed mirror with bevelled edges, size 610 x 610mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam <b>AS IMPALA GLASS OR APPROVED EQUIVALENT</b></p>	2	No		
Total carried to collection page					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Total carried from previous page					
A	<p><b>Disabled Persons Water Closet and Wash Hand Basin Facility</b> Close-coupled WC suite ('S' or 'P'-trap) in approved colour complete with horizontal outlet to BS 3402 with 7.5 litre valveless low level ceramic cistern and fittings including siphon, 15mm diameter side inlet ball valve, 20mm diameter side overflow, plastic flush bend, dual flush system, inlet connection, chrome-plated lever and heavy plastic seat and cover with metal top fixed (chrome plated) hinges. All to be as IDEAL STANDARD "PLAN"-wc pan model 109.003.34 water closet or equal and approved.</p>	1	No.		
B	1 x 600mm grab rails with concealed fixings	1	No		
C	1 x 450mm grab rail with concealed fixings	1	No		
D	1x Hinged support rail and toilet roll holder concealed fixings	1	No		
E	Pedestal wash hand basin size 560 x 440mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole, chrome plated non-conculsive time delay press action pillar tap as Cobra model and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. To be frencia pedestal washhand basin or equal and approved.	1	No		
F	Free Counter standing pillar tap with Self-closing cartridge, hydraulically controlled, piston-free design, self-closing, stepless adjustment of flow duration <b>AS NEMSI OR APPROVED EQUIVALENT</b>	1	No		
H	15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved.	1	No.		
I	<p><b>Robe Hook</b> Double-ended bathroom robe hook, made of AISI 304 stainless steel black finish <b>AS DALI OR APPROVED EQUIVALENT</b></p>	1	No		
F	<p><b>Mirror</b> 6mm thick polished plate glass silver backed mirror with bevelled edges, size 610 x 610mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam <b>AS IMPALA GLASS OR APPROVED EQUIVALENT</b></p>	1	No		
J	<p><b>Signage</b> Signage made of stainless steel, 0.5 mm thick and the subject is embossed in black on the stainless steel. The signs to be circular and have a diameter of 116 mm and they are fixed to the wall by means of a double side tape</p>	1	No		
Total carried to next page					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
<b>Total carried from previous page</b>					
	<b>GENTS</b>				
	<b>Water Closet</b>				
	<b>Signage</b>				
E	Signage made of stainless steel, 0.5 mm thick and the subject is embossed in black on the stainless steel. The signs to be circular and have a diameter of 116 mm and they are fixed to the wall by means of a double side tape	1	No		
	<b>Wash hand basin (WHB)-Pedestal</b>				
F	Pedestal wash hand basin size 560 x 440mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole, chrome plated non-conculsive time delay press action pillar tap as Cobra model and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. To be of IDEAL STANDARD Model-Plan Above Counter 109.003.38 countertops washhand basin or equal and approved.	2	No		
	<b>Wash hand basin tap</b>				
G	Free Counter standing pillar tap with Self-closing cartridge, hydraulically controlled, piston-free design, self-closing, stepless adjustment of flow duration <b>AS NEMSI OR APPROVED EQUIVALENT</b>	2	No		
<b>Total carried to collection page for Ladies Washroom</b>					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
<b>Total carried from previous page</b>					<b>0.00</b>
A	<p><b>Flexible Tubing</b> 15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved.</p>	2	No.		
B	<p><b>Soap Dispenser</b> Wall mounted soap dispenser with a capacity of about one litre having a press action soap release mechanism complete with fixing screws. Allow for initial soap supply. To be as NEMSI soap dispenser or approved equivalent.</p>	1	No.		
C	<p><b>Hand Driers</b> Automatic hand drier in white colour, operating on an infra-red automatic sensing system with heating element safety cut-out complete with a 30 seconds safety timer, plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1kw and performance flow rate of 135cfm (3.82m<sup>3</sup>/min) and to be of size 270x264x143mm deep It shall have a noise level below 72.5 dBA at 1.5m. It shall be as Medclinic or approved equivalent.</p>	1	No.		
D	<p><b>Mirror</b> 6mm thick polished plate glass silver backed mirror with bevelled edges, size 610 x 610mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam <b>AS IMPALA GLASS OR APPROVED EQUIVALENT</b></p>	2	No		
E	<p><b>Urinal Bowl and cistern</b> 2No.Ceramic urinal bowl complete with chrome plated flush pipes, 4.5 litres ceramic cistern, 40mm heavy duty plastic bottle trap and 40mm diameter chrome plated outlet with grating firmly fixed on the wall with chrome plated screws. The fittings shall be as Twyfords or equal and approved.</p>	1	set		
F	<p><b>Urinal Partition</b> Rectangular shaped urinal partition/Division with frosted glass of Size Height 900mm and Width 450mm <b>AS JAQUAR URINAL PARTITION PRODUCT MODEL JSE-CHR-110US450X OR EQUIVALENT</b></p>	2	No		
<b>Total carried to collection page for Ladies Washroom</b>					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Total carried from previous page					
A	<p><b>Disabled Persons Water Closet and Wash Hand Basin Facility</b> Close-coupled WC suite ('S' or 'P'-trap) in approved colour complete with horizontal outlet to BS 3402 with 7.5 litre valveless low level ceramic cistern and fittings including siphon, 15mm diameter side inlet ball valve, 20mm diameter side overflow, plastic flush bend, dual flush system, inlet connection, chrome-plated lever and heavy plastic seat and cover with metal top fixed (chrome plated) hinges. All to be as IDEAL STANDARD "PLAN"-wc pan model 109.003.34 water closet or equal and approved.</p>	1	No.		
B	1 x 600mm grab rails with concealed fixings	1	No		
C	1 x 450mm grab rail with concealed fixings	1	No		
D	1x Hinged support rail and toilet roll holder concealed fixings	1	No		
E	Pedestal wash hand basin size 560 x 440mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole, chrome plated non-conculsive time delay press action pillar tap as Cobra model and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. To be frencia pedestal washhand basin or equal and approved.	1	No		
F	Free Counter standing pillar tap with Self-closing cartridge, hydraulically controlled, piston-free design, self-closing, stepless adjustment of flow duration <b>AS NEMSI OR APPROVED EQUIVALENT</b>	1	No		
G	15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved.	1	No.		
H	<p><b>Mirror</b> 6mm thick polished plate glass silver backed mirror with bevelled edges, size 610 x 610mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam <b>AS IMPALA GLASS OR APPROVED EQUIVALENT</b></p> <p><b>Robe Hook</b></p>	1	No		
I	Double-ended bathroom robe hook, made of AISI 304 stainless steel black finish <b>AS DALI OR APPROVED EQUIVALENT</b>	1	No		
J	<p><b>Signage</b> Signage made of stainless steel, 0.5 mm thick and the subject is embossed in black on the stainless steel. The signs to be circular and have a diameter of 116 mm and they are fixed to the wall by means of a double side tape</p>	1	No		
Total carried to collection page for Ladies Washroom					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
<b>Total carried from previous page</b>					
	<b>RC office</b>				
	<b>Water Closet</b>				
A	Close-coupled WC suite ('S' or 'P'-trap) in approved colour complete with horizontal outlet to BS 3402 with 7.5 litre valveless low level ceramic cistern and fittings including siphon, 15mm diameter side inlet ball valve, 20mm diameter side overflow, plastic flush bend, dual flush system, inlet connection, chrome-plated lever and heavy plastic seat and cover with metal top fixed (chrome plated) hinges. All to be as lecico or equal and approved.	1	No.		
	<b>Flexible Tubing</b>				
B	15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved.	1	No.		
	<b>Toilet Roll Holder</b>				
C	Fully recessed toilet roll holder in vitreous china of size 165 x 165mm in approved colour as Ideal Standard Model Cassara Cat No. 109.000.10 or equal and approved.	1	10		
	<b>Robe Hook</b>				
D	Double-ended bathroom robe hook, made of AISI 304 stainless steel black finish <b>AS DALI OR APPROVED EQUIVALENT</b>	1	No		
	<b>Wash hand basin (WHB)-Pedestal</b>				
E	Pedestal wash hand basin size 560 x 440mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole, chrome plated non-conculsive time delay press action pillar tap as Cobra model and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. To be of IDEAL STANDARD Model-Plan Above Counter 109.003.38 countertops washhand basin or equal and approved.	1	No		
	<b>Wash hand basin tap</b>				
F	Free Counter standing pillar tap with Self-closing cartridge, hydraulically controlled, piston-free design, self-closing, stepless adjustment of flow duration <b>AS NEMSI OR APPROVED EQUIVALENT</b>	1	No		
	<b>Flexible Tubing</b>				
G	15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved.	1	No.		
<b>Total carried to collection page for Ladies Washroom</b>					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
<b>Total carried from previous page</b>					
A	<p><b>Soap Dispenser</b></p> <p>Wall mounted soap dispenser with a capacity of about one litre having a press action soap release mechanism complete with fixing screws. Allow for initial soap supply. To be as NEMSI soap dispenser or approved equivalent.</p>	1	No.		
B	<p><b>Hand Driers</b></p> <p>Automatic hand drier in white colour, operating on an infra-red automatic sensing system with heating element safety cut-out complete with a 30 seconds safety timer, plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1kw and performance flow rate of 135cfm (3.82m<sup>3</sup>/min) and to be of size 270x264x143mm deep It shall have a noise level below 72.5 dBA at 1.5m. It shall be as Medclinic or approved equivalent.</p>	1	No.		
C	<p><b>Mirror</b></p> <p>6mm thick polished plate glass silver backed mirror with bevelled edges, size 610 x 610mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam <b>AS IMPALA GLASS OR APPROVED EQUIVALENT</b></p>	1	No		
<b>Total carried to collection page for Ladies Washroom</b>					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
<b>Total carried from previous page</b>					
	<b>KITCHEN</b>				
	<b>Kitchen sink</b>				
A	Double Bowl Single Drain Kitchen sink made of Stainless steel material of Size 1000 x 490 x 220mm includes Waste & Bottle Trap.The sink consists of ,kitchen basket,two bowls and one drain on the side <b>AS FRENCIA OR APPROVED EQUIVALENT</b>	1	No		
	<b>Kitchen sink Tap</b>				
B	Kitchen sink Tap Swivel Spout <b>AS NEMSI OR APPROVED EQUIVALENT</b>	1	No		
	<b>Flexible Tubing</b>				
C	15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved.	1	No.		
	<b>CLEANERS</b>				
	<b>Cleaners Sink</b>				
D	Heavy duty stainless steel sink of size 675 x 485 x 300mm deep in 16 SWG as manufactured by ASL 131 or approved equivalent suitable for mounting on counter, complete	1	No.		
	<b>Cleaners Sink Tap</b>				
E	15mm diameter chrome plated back inlet bib tap Cobra ref 107EC CP, 40mm diameter chrome plated bottle trap and chain waste fitting and plug.	1	No.		
<b>Total carried to collection page</b>					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
<b>Total carried from previous page</b>					0.00
	<b>PPR Pipework</b>				
A	20mm diameter pipework	1	Lm		
B	25mm diameter pipework	150	Lm		
C	50mm diameter pipework	100	Lm		
	<b>Bends</b>				
D	25mm diameter bend	24	No.		
E	50mm diameter bend	20	No.		
	<b>Tees</b>				
F	25mm equal tee	30	No.		
G	50mm equal tee	5	No.		
	<b>Reducing Bushes</b>				
H	25 x 20mm diameter reducer	10	No.		
I	50 x 25mm diameter reducer	3	No.		
	<b>Male/Female Adapters (CPVC threaded)</b>				
J	20mm threaded adapter	1	No.		
K	25mm threaded adapter	8	No.		
	<b>Valves</b>				
L	25mm diameter gate valve	4	No.		
M	50mm diameter gate valve	1	No.		
	<b>Unions</b>				
N	25mm diameter pipe union	4	No.		
O	50mm diameter pipe union	1	No.		
	<b>Pipe Sleeves</b>				
P	100mm diameter heavy duty PVC pipe sleeves for crossing over columns and beams.	2	Lm		
	<b>Pressure Testing</b>				
Q	Allow for all costs for pressure testing for plumbing piping and issuance of pressure testing certificates	1	No.		
<b>Total carried to collection page</b>					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
<b>Total carried from previous page</b>					
<b>FOUL WATER INTERNAL DRAINAGE</b>					
A	100mm diameter heavy gauge golden brown UPVC pipe	90	Lm		
B	100mm diameter heavy gauge grey mUPVC pipe	8	Lm		
C	50mm diameter waste pipe	90	Lm		
D	40mm diameter waste pipe	60	Lm		
E	32mm diameter waste pipe	50	Lm		
<b>Bends</b>					
F	100mm diameter long radius bend	8	No.		
G	100mm diameter short radius bend	8	No.		
H	100mm diameter bend with access	1	No.		
I	100mm diameter sweep bend	1	No.		
J	50mm diameter sweep bend	4	No.		
K	40mm diameter sweep bend	1	No.		
L	32mm diameter sweep bend	4	No.		
<b>Tees</b>					
M	100mm diameter sweep tee	6	No.		
N	50mm diameter sweep tee	6	No.		
O	40mm diameter sweep tee	6	No.		
P	32mm diameter sweep tee	6	No.		
<b>Access Caps</b>					
Q	100mm diameter access cap	6	No.		
R	50mm diameter access cap	2	No.		
S	40mm diameter access cap	4	No.		
T	32mm diameter access cap	4	No.		
<b>WC Connectors</b>					
U	100mm diameter WC connector	7	No.		
<b>Total carried to collection page</b>					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
<b>Total carried from previous page</b>					<b>0.00</b>
	<b>Traps</b>				
A	100 x 50mm diameter floor trap and grating	7	No.		
B	300 x 300mm Gulley trap and heavy duty gulley trap cover	4	No.		
C	600 x 450mm manhole with heavy duty cover. Manual depth to be determined on site but to a minimum of 600mm	10	No.		
D	150mm diameter heavy gauge golden brown UPVC pipe for interconnecting the septic tank or sewer	50	Lm		
<b>Total cost for Plumbing and Drainage Works</b>					

**BILL NO. 4 FIRE FIGHTING**

	<p><b>Portable Fire Extinguishers</b> Supply, deliver, install, test and commission the following portable fire extinguishers and conforming to BS EN 3 / BS 1449.</p>				
A	<p><b>Water/Carbon Dioxide Gas Fire Extinguisher</b> 9 litres water/carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.</p>	2	No		
B	<p><b>Carbon Dioxide Gas Fire Extinguisher</b> 5 Kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.</p>	2	No		
C	<p><b>Dry Chemical Powder Fire Extinguisher</b> 6kg dry chemical powder portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.</p>	2	No		
D	<p><b>Manual Alarm Bell</b> 9" (225mm) manual operated alarm bell (Gong)</p>	2	No		
E	<p><b>Fire Notices</b> Allow for fire signage for the hose reel system, fire exits and fire instructions as directed by the Project Engineer.</p>	2	No		
<b>Total Carried to Plumbing Summary</b>					

## BILL NO. 5 WATER TANKS &amp; PUMPS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
A	<b>Water Pumpset</b> Automatic electrically driven twin booster pump by with automatic changeover, capable of delivering 2 cubic metres per hour against a head of 10 meters.The pumpset to have with inbuilt pressure controller and mounting skid.The Pumpset to be <b>AS PEDROLLO OR APPROVED EQUIVALENT</b>	1	Item		
B	Pressure control system for the abovepump as from dayliff or eqiovalent	1	Item		
C	<b>Pump Cage</b> 1m long x 1m wide x 1m high steel pump cage with lockable access and concrete base	1	Item		
D	<b>Ground Water tanks</b> Supply, deliver and install vertical close end plastic moulded tank of capacity 10,000 litres and diameter 1830 mm and of height 2020 mm. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow,drain pipes and any other necessary item for its proper functioning.	1	No.		
E	<b>Ground Water tank Plinth</b> Construct a tank plinth of diameter 2500mm raised 300mm above ground level.Allow for all costs associated with excavation,hardcore and concrete including 14mm thick 2no. coatwork cement sand (1:3) render;	1	Item		
F	<b>Excavations</b> Excavate trench in soil/murram 400mm wide and depth not exceeding 1000mm deep and average 750mm deep, prepare bed with red soil/marram of particle size not more than 20 mm to a depth of 500mm.	20	Lm		
H	25mm diameter pipework	20	Lm		
I	25mm diameter bend	6	No.		
J	25mm equal tee	6	No.		
K	25mm diameter gate valve	1	No.		
L	25mm diameter pipe union	1	No.		
<b>Total carried to plumbing summary page</b>					

## BILL NO. 6 WATER TANKS AND ASSOCIATED INSTALLATION WORKS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
A	<b>Roof Water tanks</b> Supply, deliver and install vertical close end plastic moulded tank of capacity 1000 litres (130X79). The tank to be assembled complete with 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 slab and shall be as TOPTANK : OR APPROVED EQUIVALENT	2	No.		
B	<b>PPR Pipework</b> 25mm diameter pipework	100	Lm		
C	<b>Bends</b> 25mm diameter bend	15	No.		
D	<b>Tees</b> 25mm equal tee	3	No.		
E	<b>Valves</b> 25mm diameter gate valve	2	No.		
F	<b>Unions</b> 25mm diameter pipe union	2	No.		
G	<b>Excavations</b> Excavate trench in soil/murram 400mm wide and depth not exceeding 1000mm deep and average 750mm deep, prepare bed with red soil/marram of particle size not more than 20 mm to a depth of 500mm.	30	Lm		
<b>Total Carried Forward to summary Page</b>					

## CIVIL WORK AND ASSOCIATED INSTALLATION WORKS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
A	<p><b>Biodigester unit</b></p> <p>Supply and install biodigester waste treatment system complete to the satisfaction of the Engineer. The system is expected to treat approximately waste for 50 persons daily or of size 2m<sup>3</sup> whichever is higher. Include biochemical treatment, warranty and training of client on use and maintenance</p>	1	Unit		
B	<p><b>Soakpit</b></p> <p>Construct 1 no soak pit overall size 1500mm diameter x 4500mm deep. Allow for excavation, backfill, hardcore, lining, reinforcement, top cover concrete to rendered finish with 600x450 manhole cover to engineers satisfaction</p>	1	unit		
C	<p><b>Excavations</b></p> <p>Excavate trench in soil/murram 400mm wide and depth not exceeding 1000mm deep and average 750mm deep, prepare bed with red soil/murram of particle size not more than 20 mm to a depth of 500mm.</p>	50	Lm		
D	600 x 450mm manhole with heavy duty cover. Manual depth to be determined on site but to a minimum of 600mm	15	No.		
E	150mm diameter heavy gauge golden brown UPVC pipe for interconnecting the septic tank or sewer	50	Lm		
F	Testing and commissioning of the system to the satisfaction of the engineer	1	Item		
<b>Total Carried Forward to summary Page</b>					

**SUMMARY PAGE**

<b>Item</b>	<b>Description</b>	<b>Amount (Kshs)</b>
1	Total carried forward for sanitary and piping	
2	Total carried forward for fire protection systems	
3	Total carried forward for Ground water tanks and pumps	
4	Total carried forward for for roof water tanks	
5	Total carried forward for for Civil works	
	<b>Total for Plumbing and Drainage Installation Works carried to Grand Summary Page</b>	

<p align="center"><b>PROPOSED CONSTRUCTION OF REGIONAL OFFICES</b>  <b>NG-CDF BOARD</b>  <b>MAIN SUMMARY</b></p>			
Bill No.	Description	Page No.	Amount (Ksh)
1	SUBSTRUCTURES		-
2	LOWER GROUND	M/S 1	
3	UPPER GROUND	GH/15	
4	PLUMBING AND MECHANICAL WORKS		
<b>TOTAL TENDER SUM TO FORM OF TENDER</b>			
<p><b>AMOUNT IN WORDS</b>                  .....                  (Amount inclusive of 16% VAT and withholding Tax)</p>			
Contractors Signature & Official Rubber Stamp			
Date			
Name & Signature of Witness			
Address of Witness			
Date			

**SECTION B: GATE HOUSE BUILDER'S WORK**

Item	Description	Unit	Qty	Rate	Amount
	<b><u>SECTION NO. 2: PROPOSED SENTRY/GATE HOUSE</u></b>				
	<b><u>MAIN BUILDING</u></b>				
	<b><u>ELEMENT NO 1</u></b>				
	<b><u>SUBSTRUCTURES (ALL PROVISIONAL)</u></b>				
	<b><u>Site Preparation</u></b>				
	<b><u>Site Clearance</u></b>				
A	Clear site of bushes, scrub, undergrowth and cut down small trees not exceeding 600mm girth and grub up roots; uproot tree stumps of various diameters including grubbing up roots; load and remove from site and transport to approved county tip/disposal point.	SM	9		
	<b><u>Excavations</u></b>				
	<b><u>General excavations to include excavating in loam, clay, black cotton soil, red soil or any soil which does not require ripping or use of compressor tools</u></b>				
B	Excavate average 200mm deep to remove top soil : cart away arising to approved county tip.	SM	9		
C	Excavate to formation levels in final trimming and levelling: commencing from stripped levels; not exceeding 1.5 meters deep	CM	3		
C	Excavate trenches for wall foundations : commencing from reduced level : not exceeding 1.5 metres deep.	CM	9		
	<b><u>Disposal of excavated materials</u></b>				
E	Surplus excavated materials : remove, load and cart away from site to an approved county tip.	CM	7		
F	Backfill and compact in layers : selected excavated material around foundations : placed in 200mm thick layers : well watered and compacted to 95% MDD; allow for re-excavation and wheeling from temporary spoil heaps.	CM	5		
	<b><u>Disposal of water</u></b>				
G	Keep excavations free from all water by baling, pumping or otherwise	ITEM	1		
	<b><u>Planking and strutting</u></b>				
H	Planking and strutting to sides of all excavations : keep excavations free form all fallen materials	ITEM	1		
	<b>Carried to Collection</b>				

Item	Description	Unit	Qty	Rate	Amount
A	<b><u>Imported hardcore</u></b> Approved quarry stone hardcore filling : 300mm thick (overall) : deposit, handpack, level and compact in layers not exceeding 150mm thick : to receive 100mm slab (m/s)	SM	6		
B	<b><u>Murram blinding</u></b> 50mm Murram blinding to surface of hardcore fill	SM	6		
C	<b><u>Antitermite Treatment</u></b> Chemical antitermite treatment to murram filling ; Dragnet 30% EC or equal and approved : provide ten year guarantee	SM	6		
D	<b><u>In situ concrete : class 15/25mm</u></b> 50mm Blinding layer : under wall foundations	SM	6		
E	<b><u>In situ concrete : Class 20: vibrated : reinforced</u></b> Foundation in trenches	CM	1		
F	75mm Thick Surface bed	SM	8		
G	<b><u>Ribbed: Mild steel bar reinforcement to BS 4449 and High tensile steel bar reinforcement to BS 4461 (Provisional)</u></b> Assorted bars	Kg	90		
H	<b><u>Mesh fabric reinforcement reference A142 to BS 4483 : weighing 2.22Kg per square metre : 200mm laps Minimum.</u></b> In surface beds	SM	8		
I	Vertical sides: wall foundations	SM	4		
J	Vertical edge of bed : over 75 but not exceeding 150mm high	LM	12		
K	<b><u>Approved quality local stone; minimum load bearing (7N/mm<sup>2</sup>) block walling: medium chisel dressed : in regular courses : in cement and sand (1:3) mortar; with and including 20 gauge hoop iron wall ties 25mm wide cast into concrete and built into walling</u></b> 200mm Walling	SM	16		

Item	Description	Unit	Qty	Rate	Amount
	<b>Carried to Collection</b>				
A	<u>Labours and sundries</u> One Layer 1000 gauge polythene sheet damp proof membrane : under bed : 300mm laps	SM	8		
B	<u>Plinths</u> 12mm Cement and sand (1:4) render with woodfloat finish : to exposed plinth walls	SM	3		
	Plinth				
C	Prepare and apply two coats bituminous paint to rendered plinths	SM	3		

Item	Description	Unit	Qty	Rate	Amount
	<b>Carried to Collection</b>				
	<u><b>COLLECTION</b></u>				
			Page No		
	Total Brought Forward from Page No.		GH/1		
	"		GH/2		
	"		GH/3		

Item	Description	Unit	Qty	Rate	Amount
	<b>Substructure Total Carried Forward to Summary</b>				
	<b><u>ELEMENT No.2</u></b> <b><u>REINFORCED CONCRETE SUPERSTRUCTURE</u></b>				
	<b><u>Insitu concrete : Class 20/20 mm : vibrated : reinforced</u></b>				
A	Beams	CM	1		
	<b><u>Ribbed Mild steel bar reinforcement to BS 4449 and High tensile steel bar reinforcement to BS 4461 (Provisional)</u></b>				
B	Assorted bars	Kg	100		
	<b><u>Sawn formwork : to</u></b>				
C	Sides and soffits : beams	SM	6		

Item	Description	Unit	Qty	Rate	Amount
	<b>Total For Reinforced Concrete Superstructure Carried to Summary</b>				
	<b><u>ELEMENT NO 3</u></b>				
	<b><u>ROOFING (Provisional)</u></b>				
	<b><u>TIMBER STRUCTURE &amp; COVERING</u></b>				
	<b><u>Prepainted galvanized sheets gauge 28 (or other equal and approved) laid on purlins to main roof level; as described to:-</u></b>				
A	Coverings to 25degrees slopping timber framed roof : nailed every third course.	SM	18		
	<b><u>Roofing accessories to match roofing tiles as described to:</u></b>				
B	Standard ridge capping	m	4		
C	Standard ridge end piece	No	2		
	<b><u>Unplasticised PVC panel boards</u></b>				
D	8mm thick heavy gauge UPVC panel to eaves boarding on and including 50 x 50mm brandering	m2	5		
E	25 x 250mm Fascia or barge board	m	17		
	<b><u>Prepare and knot coated surfaces : prime and apply three coats polyurethane clar varnish : on wood</u></b>				
F	General surfaces : eaves boarding	m2	5		
	<b><u>Prepare and knot coated surfaces : prime and apply two undercoats and one finishing coat gloss paint : on wood</u></b>				
G	Fascia : over 200 but not exceeding 300mm girth	m	17		

Item	Description	Unit	Qty	Rate	Amount
	<b>Carried to Collection</b>				
	<b><u>Roof Structure (Provisional)</u></b>				
	<b><u>Structural timbers : sawn cypress : pressure impregnated . Rate to including all bolting, nailing and fixing into place with and including gms diameter bolts with nuts and washers; gusset plates with holes; drilling of holes in timber for bolts; sizes of bolts, plates and holes to approval to:</u></b>				
A	50 x 75mm Purlins spaced at 400mm centres for hanging and nailing roofing tile (m/s)	m	20		
B	50 x 100mm Wall plate : fixed with and including 12mm diameter mild steel ragbolt 150mm long at 900mm centres ; cast in ring beams.	m	11		
C	50 x 100mm Common rafters.	m	18		
D	50 x 200mm Ridge board.	m	5		
	<b><u>The following in 3No truss (Truss T1) spanning 4000mm and 935mm high : hoisting and fixing at 2800mm above ground level</u></b>				
E	100 x 50mm King post	m	3		
F	150 x 50mm Ceiling joists	m	12		
G	100 x 50mm Struts and ties	m	10		
	<b><u>Rainwater Disposal (provisional)</u></b>				
	<b><u>Unplasticised PVC rainwater pipes and fittings : solvent welded joints</u></b>				
H	100mm Diameter rainwater pipe ; fixed to wall with approved holder brackets.	LM	12		
I	Extra over downpipe for bend	No.	4		
J	Extra over for rainwater shoe	No.	4		

Item	Description	Unit	Qty	Rate	Amount
	<b>Carried to Collection</b>				
	<b><u>COLLECTION</u></b> Total Brought Forward from Page No.		<b><u>Page No</u></b> GH/6 GH/7		

Item	Description	Unit	Qty	Rate	Amount
	<b>Roofing Works Total Carried to Summary</b>				
	<u><b>ELEMENT No.4</b></u> <u><b>WALLING</b></u> <u><b>External Walling</b></u> <u>Selected and approved quality local stone blocks : regular</u> <u>coursed walling of uniform colour : 200mm course heights :</u> <u>medium chisel dressed finish to one face : horizontal</u> <u>recessed joints ; flush vertical joints bedded and jointed in</u> <u>cement and sand (1:3); reinforced with 20 gauge 25mm</u> <u>hoop iron strips laid horizontally every alternate course</u>				
A	150mm Thick Walling	SM	26		
B	Ditto Gable walls	SM	4		
	<u>Damp proof courses : bituminous felt : bedded in cement</u> <u>mortar (1:4) : 300mm laps</u>				
C	Horizontal : 150mm wide	LM	13		

Item	Description	Unit	Qty	Rate	Amount
	Carried Forward to Summary				
	<p><b><u>ELEMENT No.5</u></b>  <b><u>WINDOWS (PROVISIONAL)</u></b>  <b><u>Precast concrete units : class 20/20 : reinforced as necessary for handling ; fair face finished on all exposed faces</u></b></p>				
A	250 x 75mm Cill :once weathered and throated : bedded in cement mortar 1:4)	LM	2		
	<p><b><u>METAL WORK</u></b>  <b><u>Purpose made steel casement windows manufactured from standard metric W20 sections : supplied with hinges and polished brass handles and stays : permanent vents to top edge ; fixed with lugs built into concrete or stone walls ; pointed externally with silicone: welded onto in mastic and finished with one shop coat primer; all to Architect's approval and as per the issued Window Schedule.</u></b></p>				
B	Window overall size 900 x 900mm high: W1	No.	3		
	<b><u>5mm Clear sheet glass : fixed with putty on metal frames</u></b>				
C	In panes over 0.5 but not exceeding 1.0 square metres each	SM	3		
	<b><u>Prepare touch up primer and apply two undercoats and one finishing coat gloss paint ; on metal</u></b>				
D	Steel casement windows (both sides)	SM	6		
E	Burglar proofing (ditto)	SM	6		

Item	Description	Unit	Qty	Rate	Amount
	<b>Windows Total Carried Forward to Summary</b>				
	<p><b><u>ELEMENT No.6</u></b>  <b><u>DOORS</u></b>  <b><u>Metal Doors</u></b></p> <p><b><u>Supply and fix the following purpose -made steel doors, including fixing lugs, once shop primed with one coat red oxide primer before delivery to site, welding to steel stanchions complete with frames and including all iron-mongery, all pointed round in cement sand ( 1:3) mortar to Architect approval and as per Door Schedule:</u></b></p> <p>Single leaf, double swing mild steel panel door overall size 900 x 2500mm high : comprising 50 x 50 x 3mm RHS stiles, top, bottom and middle rails ; the open panels welded over with 1.5mm thick mild steel plate : 50 x 50x 6mm lock plate to each leaf welded ot frame and drilled with 6mm diameter hole for padlock : hanging door to and including 100 x 75 x 6mm angle frame: Door D1</p> <p><b><u>4mm Clear sheet glass : glazing to wood with beads (measured separately)</u></b></p> <p>In panes over 0.1 but not exceeding 0.5 square metres each</p> <p><b><u>Prepare touch up primer and apply two undercoats and one finishing coat gloss paint : on metal</u></b></p> <p>General surfaces : steel doors : (both sides measured flat overall)</p>				
A		No.	2		
B		SM	2		
C		SM	9		

Item	Description	Unit	Qty	Rate	Amount
	Carried to Collection				
	<b><u>ELEMENT No.7</u></b> <b><u>INTERNAL FINISHES</u></b> <b><u>Render, Plasterwork and Screeds</u></b> <b><u>Prepare and apply 12mm (minimum) thick backing cement and sand (1:4): steel trowelled finish: on concrete blockwork or stonework : to</u></b>				
A	Walls to receive tiles.	11	SM		
	<b><u>Prepare and apply 12mm (minimum) thick backing cement and sand (1:4): steel trowelled finish: on concrete blockwork or stonework : to</u></b>				
B	Walls to receive paint.	15	SM		
	<b><u>Cement and sand (1:4) trowelled screeds : on concrete : to</u></b>				
C	32mm Floors : finished to receive ceramic tile flooring	5	SM		
	<b><u>Wall Paint</u></b> <b><u>Prepare and apply three coats of premium quality silk vinyl emulsion paint as approved to:-</u></b>				
D	Walls; internal	15	SM		
	<b><u>Provide a prime cost sum as indicated for supply of;</u></b>				
E	200 x 300mm ceramic wall tiles	11	SM	1,200	13,200
	<b><u>Take delivery &amp; fix coloured glazed ceramic wall tiles as approved by the Architect : on and including cement and sand backing ; fixed with approved quality adhesive : grouted, jointed and pointed in matching colour cement mortar : on</u></b>				
F	200 x 300 x 8mm non-slip ceramic tiles to plastered surfaces	11	SM		
	<b><u>Floor finishes</u></b> <b><u>Provide a prime cost sum as indicated for supply of;</u></b>				
G	400 x 400mm ceramic floor tiles	5	SM	1,500	7,500
	<b><u>Take delivery &amp; fix coloured glazed non-slip ceramic floor tiles: as selected by the Architect : on screeded bed (m/s) jointed, pointed and grouted in matching colour cement mortar</u></b>				
H	400 x 400mm ceramic floor tiles	5	SM		

Item	Description	Unit	Qty	Rate	Amount
	<b>Carried to Collection</b>				
	<b><u>Ceiling finishes</u></b>				
A	Supply & fix 9mm thick gypsum board on steel studwork complete with metal edge and ceiling trims in accordance with Architect's details.	5	SM		
B	75 x 12mm cornice with two labours plugged	10	LM		
C	Prepare and apply three coats of plastic emulsion paint to general surfaces of gypsum( Brilliant white) including skimming sand and leave smooth surfaces	5	SM		
D	Ditto girth 100-200mm	10	LM		
E	Extra over for gypsum ceiling trap door size 600x600mm with wrot cypress framing 50x50mm with miltre joints	1	NO		

Item	Description	Unit	Qty	Rate	Amount
	<b>Carried to Collection</b>				
	<b><u>COLLECTION</u></b>		<b><u>Page No</u></b>		<b><u>Amount</u></b>
	Total Brought Forward from Page No.		GH/12		
			GH/13		

Item	Description	Unit	Qty	Rate	Amount
	<b>Internal Finishes Total Carried to Summary</b>				-
	<b><u>ELEMENT No.8</u></b>				
	<b><u>EXTERNAL FINISHES</u></b>				
	<b><u>WALL FINISHES</u></b>				
	<b><u>12mm Thick Cement and sand (1:3) plaster to external concrete surfaces.</u></b>				
A	Concrete and masonry surfaces surfaces generally	SM	15	400	6,000.00
	<b><u>Prepare and apply three coats of exterior quality emulsion permacote paint with Teflon as "Crown Paints" or equal and approved equivalent; to rendered surfaces to :</u></b>				
B	Rendered walls, beams and columns	SM	15	350	5,250.00
	<b><u>PAVEMENT</u></b>				
C	200mm Hardcore bed ; deposited, spread levelled and compacted : to receive sand bed	SM	15	300	4,500.00
D	50mm Sand bed : levelled and compacted to receive paving	SM	15	100	1,500.00
E	50 x 600 x 600mm Precast concrete (class 20) paving slabs ; laid on sand bed (m/s) jointed and pointed in cement mortar (1:4).	SM	15	1,500	22,500.00

Item	Description	Unit	Qty	Rate	Amount
	<b>Total For External Finishes Carried Forward to Summary</b>				39,750.00
	<b><u>ELEMENT No.12</u></b> <b><u>ELECTRICAL INSTALLATIONS</u></b>				
A	Allow a Provisional Sum of Ksh Ten Thousand Only (Ksh 10,000.00) for Electrical Installations	ITEM	1.00	10,000	10,000.00
	<b><u>Builders work in connection with Electrical installations</u></b> <b><u>Cut away for electrical points, fittings and equipment : make good after the electrician : concealed type system (provisional)</u></b>				
B	Allow a Provisional Sum of Ksh Ten Thousand Only (Ksh 10,000.00) for Builders work in connection with Electrical Installations	ITEM	1.00	10,000	10,000.00

Item	Description	Unit	Qty	Rate	Amount
	Carried Forward to Summary				20,000.00
	<b><u>SECTION NO. 2: PROPOSED SENTRY/GATE HOUSE</u></b>				
	<b><u>SECTION SUMMARY - MAIN HOUSE</u></b>		<b><u>Page</u></b>		<b><u>Amount</u></b>
1	SUBSTRUCTURES		GH/4		
2	REINFORCED CONCRETE SUPERSTRUCTURE		GH/5		
4	ROOFING		GH/8		
5	WALLING		GH/9		
6	WINDOWS		GH/18		
7	DOORS		GH/11		
9	INTERNAL FINISHES		GH/12		
10	EXTERNAL FINISHES		GH/13		
11	ELECTRICAL INSTALLATIONS - BUILDERS WORKS		GH/15		
	<b>Total For Sentry Works Carried to Final Summary</b>				

## SANITARY FITTING&amp; INTERNAL PIPING

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
A	<p><b>Asian Toilet</b></p> <p>Squatting Type Toilet in Stainless Steel AISI 304, 1 mm thick, Polished finish, Floor mounted, Ø 102mm water output, Water input, dimensions of 595x625x150 mm. All to be as 'TAPIS S9112' or approved equivalent.</p>	1	No.		
B	<p><b>Toilet Roll Holder</b></p> <p>Fully recessed toilet roll holder in vitreous china of size 165 x 165mm in approved colour as Ideal Standard Model Cassara Cat No. 109.000.10 or equal and approved.</p>	1	No		
D	<p><b>Signage</b></p> <p>Signage made of stainless steel, 0.5 mm thick and the subject is embossed in black on the stainless steel. The signs to be circular and have a diameter of 116 mm and they are fixed to the wall by means of a double side tape</p>	1	No		
E	<p><b>Wash hand basin (WHB)-Counter top</b></p> <p>Countertop wash hand basin size 560 x 440mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. To be of FRENCIA Model-Plan Above countertops washhand basin or equal and approved.</p>	0	No		
<b>Total carried to collection page</b>					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
<b>Total carried from previous page</b>					
A	<p><b>Wash hand basin (WHB)-Pedestal</b> Pedestal wash hand basin size 560 x 440mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole, chrome plated non-conculsive time delay press action pillar tap as Cobra model and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. To be of IDEAL STANDARD Model-Plan Above Counter 109.003.38 countertops washhand basin or equal and approved.</p> <p><b>Wash hand basin tap</b></p> <p>Free Counter standing pillar tap with Self-closing cartridge, hydraulically controlled, piston-free design, self-closing, stepless adjustment of flow duration <b>AS NEMSI OR APPROVED EQUIVALENT</b></p> <p><b>Flexible Tubing</b></p> <p>15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved.</p>	1	No		
B		1	No		
C		1	No.		
<b>Total carried to collection page</b>					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
<b>Total carried from previous page</b>					
A	<b>Mirror</b>  6mm thick polished plate glass silver backed mirror with bevelled edges, size1800 x 610mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam <b>AS IMPALA GLASS OR APPROVED EQUIVALENT</b>	1	No		
<b>Total carried to collection page</b>					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
<b>Total carried from previous page</b>					
	<b>PPR Pipework</b>				
A	20mm diameter pipework	1	Lm		
B	25mm diameter pipework	3	Lm		
C	32mm diameter pipework	5	Lm		
	<b>Bends</b>				
D	25mm diameter bend	3	No.		
E	32mm diameter bend	2	No.		
	<b>Tees</b>				
F	25mm equal tee	4	No.		
	<b>Reducing Bushes</b>				
H	25 x 20mm diameter reducer	1	No.		
I	32 x 25mm diameter reducer	2	No.		
	<b>Male/Female Adapters (CPVC threaded)</b>				
J	20mm threaded adapter	1	No.		
K	25mm threaded adapter	1	No.		
	<b>Valves</b>				
L	25mm diameter gate valve	1	No.		
	<b>Unions</b>				
N	25mm diameter pipe union	1	No.		
	<b>Pressure Testing</b>				
Q	Allow for all costs for pressure testing for plumbing piping and issuance of pressure testing certificates	1	No.		
<b>Total carried to collection page</b>					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
<b>Total carried from previous page</b>					
	<b>FOUL WATER INTERNAL DRAINAGE</b>				
A	100mm diameter heavy gauge golden brown UPVC pipe	6	Lm		
B	100mm diameter heavy gauge grey mUPVC pipe	6	Lm		
D	40mm diameter waste pipe	5	Lm		
E	32mm diameter waste pipe	5	Lm		
	<b>Bends</b>				
H	100mm diameter bend with access	1	No.		
I	100mm diameter sweep bend	1	No.		
L	32mm diameter sweep bend	1	No.		
	<b>Tees</b>				
M	100mm diameter sweep tee	1	No.		
P	32mm diameter sweep tee	1	No.		
	<b>Access Caps</b>				
Q	100mm diameter access cap	1	No.		
T	32mm diameter access cap	1	No.		
	<b>WC Connectors</b>				
U	100mm diameter WC connector	1	No.		
<b>Total carried to collection page</b>					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
<b>Total carried from previous page</b>					
	<b>Traps</b>				
A	100 x 50mm diameter floor trap and grating	1	No.		
B	300 x 300mm Gulley trap and heavy duty gulley trap cover	1	No.		
C	600 x 450mm manhole with heavy duty cover. Manual depth to be determined on site but to a minimum of 600mm	1	No.		
D	100mm diameter heavy gauge golden brown UPVC pipe for interconnecting the septic tank or sewer	10	Lm		
<b>Total cost for Plumbing and Drainage Works</b>					

# **PRIME COSTS & PROVISIONAL SUMS**

ITEM	DESCRIPTION	UNIT	AMOUNT
	<p><b><u>BILL NO. 5</u></b>  <b><u>PRIME COST AND PROVISIONAL SUMS</u></b>  <b><u>EXPENDITURE FOR ITEMS HERE BELOW SHALL BE APPROVED BY NG-CDF BOARD</u></b></p> <p><b><u>The following sums shall be expended upon Architect's instructions and may be omitted in whole</u></b></p>		
A	Allow a Provisional sum of Kenya shillings <b>Two Hundred and Fifty thousand only</b> (Kshs 150,000/-) only for <b>Project Documentation.</b>	SUM	<b>250,000</b>
B	Allow a Provisional sum of Kenya shillings <b>Two hundred and Fifty thousand only</b> (Kshs 200,000/-) only for <b>Project Management.</b>	SUM	<b>250,000</b>
C	Allow a Provisional sum of Kenya shillings <b>of Three hundred thousand only</b> (Kshs 300,000/-) only for <b>alterations to existing masonry boundary walling for access.</b>	SUM	<b>300,000</b>
D	Allow a Provisional sum of Kenya shillings <b>One hundred and Ten thousand only</b> (Kshs 300,000/-) only for <b>soft and hard landscaping to Architect's detail.</b>	SUM	<b>300,000</b>
E	Allow a Provisional sum of Kenya shillings <b>Three hundred thousand only</b> (Kshs 300,000/-) only for <b>Project Contingency.</b>	SUM	<b>300,000</b>
F	<p><b><u>GATE (PROVISIONAL)</u></b>  Allow for installation of mild steel framed sliding gate average size 5500 x 2500mm high and pedestrian gate (details to follow) including all associated works, necessary accessories and one shop coat primer before delivery to site.</p>	SUM	<b>100,000</b>
	<b>TOTAL FOR PC AND PROVISIONAL SUMS</b>		

<b>PROPOSED CONSTRUCTION OF REGIONAL OFFICES</b> <b>NG-CDF BOARD</b> <b>MAIN SUMMARY</b>			
Bill No.	Description	Page No.	Amount (Ksh)
1	PRELIMINARIES		
2	REGIONAL OFFICE		
3	GATE HOUSE		
4	PC & PROVISIONAL SUMS		
<b>TOTAL TENDER SUM TO FORM OF TENDER</b>			
<b>AMOUNT IN WORDS</b> ..... (Amount inclusive of 16% VAT and withholding Tax)			
Contractors Signature & Official Rubber Stamp			
Date			
Name & Signature of Witness			
Address of Witness			
Date			