

**BILL NO.1:**

**PRELIMINARIES**

**BILL NO. 2:**

**BUILDER'S WORKS**

**ELEMENT NO.1 - SUBSTRUCTURES (PROVISIONAL)**

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH	CTS
	<b>Site clearance</b>					
A	Clear the site off all bushes, shrubs undergrowth cart away and dump as directed	2,150	SM			
B	Demolish the existing R.C. substructures to pave way for new foundations	1	Item			
	<b>Excavations</b>					
C	Excavate top vegetable soil average 300mm deep, Cart away and dump away from site.	645	CM			
D	Excavate to make levels average 300mm deep or as per the site dimensions.	480	CM			
E	Excavate for Column bases and elevator shaft pit.	1,750	CM			
F	Excavate for strip foundations.	162	CM			
	<b>Dumping and backfilling</b>					
G	Load and cart away surplus excavated materials from site as directed.	669	CM			
H	Return fill excavated materials into and around foundations.	1561	CM			
	<b>Fillings and treatment</b>					
I	300mm thick hard core filling compacted in 150mm layers.	1,150	SM			
J	50mm thick murrum blinding to top of hardcore (m.s.)	1,150	SM			
K	Treat surface of hard core with approved anti-termites.	1,150	SM			
	<b><u>Plain Concrete (1:4:8)</u></b>					
L	50mm blinding under foundation.	700	SM			
M	Ditto in column bases	110	SM			
	<b><u>Vibrated Concrete class 20/20 (1:2:4)</u></b>					
N	Strip foundations.	24	CM			
O	150mm thick surface bed.	1,150	SM			
P	Column bases shaft pit base and stub Columns.	350	CM			
Q	Ground beam and elevator shaft walls	85	CM			
R	Steps	3	CM			
	<b>Carried to Collection .....</b>				Kshs.	

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH	CTS
	<b><u>Reinforcement</u></b> <b><u>Cold rolled high tensile square Twisted bars to B.S.4460 including cutting to size, bending, binding wire and spacer blocks.</u></b>					
A	8mm bars	4,895	KGS			
B	10mm bars.	----	KGS			
C	12mm ditto.	994	KGS			
D	16mm ditto	33,717	KGS			
E	20mm Ditto	6,586	KGS			
F	BRC Mesh Ref. No.142	1,150	SM			
	<b><u>Form Work to:-</u></b>					
G	Edges and surface of slab 150-225mm high.	200	LM			
H	Vertical sides of substructure columns	530	SM			
I	Ditto elevator shaft walls	70	SM			
J	Ditto ground beam soffits and sides	400	SM			
	<b><u>Walling</u></b>					
K	225mm thick concrete block walling reinforced with and including 20 swg x 20mm wide hoop iron at every Alternate course joined and bended in cement and sand mortar (1:4).	180	SM			
L	15mm thick two coat cement and sand (1:3) render to plinth walls.	180	SM			
	<b>Carried to Collection .....</b>					
				Kshs.		

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH	CTS
A	Prepare and apply 3 coats of black bituminous paint on rendered plinth walls.	90	SM			
B	600x600x50mm paving slabs complete including removing top vegetable soil, putting murrum base well watered and rammed and 50mm sand blinding.	240	SM			
C	Allow for plunking and strutting.	1	ITEM			
D	Allow for removal of general water from trenches.	1	ITEM			
	<b>Carried to Collection.....</b>				Ksh.	
	<b><u>COLLECTION</u></b>					
	<b>Brought forward from pg .....VCH/01</b>				Ksh.	
	<b>Brought forward from pg .....VCH/02</b>				Ksh.	
	<b>Brought down from page ..... ABOVE</b>				Ksh.	
	<b>Total for substructures</b>					
	<b>Carried to summary.....</b>				Ksh.	

**ELEMENT NO.2 - WALLING**

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH	CTS
	<b>Walling jointed and bedded in cement sand mortar (1:4) and reinforced with 20 swg hoop iron at every three courses</b>					
A	200mm thick concrete block wall	968	SM			
B	150mm Ditto	3,400	SM			
C	100mm Thick Ditto	1,160	SM			
D	150mm Hexagonal concrete grilles.	450	SM			
E	200mm Wide Hessian based bituminous felt damp proof course in one layer including leveling and bedding in cement sand (1:3) mortar.	180	LM			
F	150mm Ditto	280	LM			
G	100mm Ditto	120	LM			
H	Labour for raking cutting to 200mm thick walls.	1,080	LM			
	<b>Total for walling Carried to Summary</b>					
					Kshs.	

**ELEMENT NO.3 - RC FRAME**

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH	CTS
	<b><u>Reinforced, Vibrated Concrete Class 20/20 (1:2;4) as described in:-</u></b>					
A	Columns	275	CM			
B	Beams and ring beam	530	CM			
C	175mm thick suspended slabs	6,000	SM			
D	Vertical fins	140	CM			
E	Horizontal fins	58	CM			
F	Gutter	100	CM			
G	Staircases	55	CM			
H	Ramps	90	CM			
I	Elevator shaft walls	65	CM			
	<b><u>Reinforcement as described:- Mild Steel Round Reinforcement bars to B.S. 4449.</u></b>					
J	8mm diameter bars.	-----	KGS	-----		
	<b><u>High Yield Square Twisted Reinforcement bars to B.S. 4461:-</u></b>					
K	20mm diameter bars	15,680	KGS			
L	16mm ditto	132,662	KGS			
M	12mm ditto	55,792	KGS			
N	10mm ditto	41,754	KGS			
O	8mm ditto	40,766	KGS			
	<b><u>Sawn formwork as described to:-</u></b>					
P	Vertical Sides of columns	2,650	SM			
Q	Sides and soffits of beams and lintols	2,500	SM			
R	Soffits of suspended slab	3,000	SM			
S	Soffits of Staircases and ramps	324	SM			
T	Edges of suspended slab 150-225mm girth	1,080	LM			
U	Ditto elevator shaft walls	350	SM			
V	Sides and soffits of R.C. gutter	1,100	SM			
	<b>Total for Structural Concrete Frame carried to Summary.....</b>			<b>Ksh.</b>		

**ELEMENT NO.4 - ROOF**

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH	CTS
	<b><u>Roof covering</u></b>					
A	26 gauge pre-painted corrugated iron sheets screwed on z purlins (m.s.)	1,152	SM			
B	Plain sheet gauge 26 in valley gutters	100	LM			
	<b><u>Roof structure</u></b>					
	<b>Framed tubular steel sections welded, grinded, primed and hoist in position then anchored as per the structural Engineer's specification.</b>					
C	75 x 50mm RHS rafters and tie beams	2,524	LM			
D	50 x 50mm SHS struts and ties	2,150	LM			
E	100 x 50 x3mm z purlins	1,478	LM			
F	Prepare and apply two coats of metallic primer to general surface of metal with girth not exceeding 100mm	6,152	LM			
	<b>Carried to Collection .....</b>				<b>Ksh.</b>	



ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH	CTS
A	<u>Rain Water Goods</u> 100mm diameter down pipe fabricated from gauge 24 plain sheet fixed to wall with holder bats. Allow for painting and fair finishing to satisfaction of the architect.	168	LM			
B	Extra over ditto for sawn neck.	6	NO			
C	Extra over ditto for shoe.	6	NO			
<b>Carried to Collection .....</b>				<b>Ksh.</b>		

ITEM	DESCRIPTION	KSHS	CTS
	<p><b><u>COLLECTION</u></b></p> <p>A Brought forward from page ..... VCH/06</p> <p>B Brought forward from page .....VCH/07</p>		
	<p><b>Total for roof carried to summary Ksh.</b></p>		

ELEMENT NO.5 - WINDOWS

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH	CTS
	<b><u>Supply, assemble and fix the following Standard section casement window with approved flat burgler proofing finished with one coat red oxide primer to complete with polished brass window stays and handles standards pressed metal permanent vents as necessary, filled with copper mosquito gauze including cutting, pinning, and building in lugs to jambs and pointing in cement and sand mortar (1:3)</u></b>					
A	Window size 4800x1800mm	3	NO			
B	Window size 4800 x 750mm	5	NO			
C	Window size 4000 x 1800mm	3	NO			
D	Window size 4000 x 1500mm	1	NO			
E	Window size 3800 x 1800mm	1	NO			
F	Window size 3800 x 1500mm	1	NO			
G	Window size 3700 x 1500mm	1	NO			
H	Window size 3600 x1500mm	1	NO			
J	Window size 3200 x 1800mm	10	NO			
K	Window size 3200 x 1500mm	1	NO			
L	Window size 3200 x 750mm	5	NO			
M	Window size 3200 x 1500mm	10	NO			
N	Window size 2600 x 1800mm	1	NO			
P	Window size 2500 x 1800mm	4	NO			
Q	Window size 2500 x 1500mm	55	NO			
R	Window size 2400 x 1500mm	3	NO			
S	Window size 2400 x 750mm	1	NO			
T	Window size 2200 x 1500mm	3	NO			
U	Window size 2000 x 1800mm	5	NO			
V	Window size 2000 x 1500mm	9	NO			
W	Window size 2000 x 750mm	3	NO			
X	Window size 1800 x 1800mm	2	NO			
Y	Window size 1800 x 1500mm	2	NO			
Z	Window size 1700 x 1500mm	1	NO			
Aa	Window size 1600 x 1500mm	6	NO			
Bb	Window size 1600 x 1400mm	2	NO			
Cc	Window size 1600 x 1000mm	2	NO			
Dd	Window size 1600 x 750mm	47	NO			
Ee	Window size 1500 x 1500mm	2	NO			
Ff	Window size 1500 x 750mm	1	NO			
Gg	Window size 1400 x 3000mm	2	NO			
Hh	Window size 1400 x 2000mm	6	NO			
Ii	Window size 1400 x 1500mm	1	NO			
Jj	Window size 1400 x 750mm	4	NO			
	<b>Carried to collection</b>				<b>Kshs.</b>	

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH	CTS
Kk	Window size 1300 x 1500mm	2	NO			
Ll	Window size 1300 x 750mm	2	NO			
Mm	Window size 1200 x 1500mm	1	NO			
Nn	Window size 1200 x 750mm	6	NO			
Oo	Window size 1100 x 750mm	6	NO			
Pp	Window size 750 x 750mm	8	NO			
	<b><u>Glazing</u></b>					
Qq	5mm thick clear sheet glass in planes (0.1.m <sup>2</sup> to 0.2.m <sup>2</sup> ) in metal putty.	660	SM			
Rr	Ditto but obscure glass	124	SM			
	<b><u>Pelmet Boxes - Wrot Cypress</u></b>					
Ss	50x50mm bearer plugged	360	LM			
Tt	120x20mm fascia	468	LM			
Uu	100x20mm top	468	LM			
Vv	100X120X20mm end to fascia	480	NO			
	<b><u>Curtain tracks</u></b>					
Ww	Brass "I" Section curtain track complete with roller brackets and screwed to timber.	468	LM			
Xx	Prepare and apply one under coat and two coats, first quality gloss oil paint to general surfaces of metal windows, externally and internally.	1,428	SM			
Yy	Ditto to wood surfaces 100-200mm girth.	468	LM			
Zz	150x25mm precast concrete window cill once weathered and throated.	500	LM			
Zii	150mm x 25mm wrot mahogany window board plugged. Allow for associated finishes including polyurethane varnish.	260	LM			
	<b>Total carried to collection</b>				<b>Kshs.</b>	
	<b><u>COLLECTION</u></b>					
	<b>Brought forward from pg ..... VCH/09</b>					
	<b>Brought forward from above</b>					
	<b>Total for windows carried to Summary...</b>				<b>Kshs.</b>	

ELEMENT NO.6 DOORS

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH	CTS
	<b><u>Supply, assemble and fix the following standard section mild steel casement doors and frames complete with all necessary iron monger including building in lags, jams and bedding frame and jointing in cement and sand mortar (1:4) all in accordance with the architect's instructions</u></b>					
A	Steel casement door overall sizes 2000x2400mm high	13	NO			
B	Steel casement door overall sizes 1600 x 2400mm high	3	NO			
C	Steel casement door size 1200 x 2400mm high	1	NO			
	<b><u>Supply and fix the prime timber doors described below with all necessary iron mongery with furniture and allow for fixing.</u></b>					
D	Panel solid double leaf, double swing door size 1500 x 2400mm high	5	NO			
E	Panel solid double leaf, double swing door size 1200 x 2400mm high	41	NO			
F	Solid panel door size 1000 x 2400 mm high	13	NO			
G	Panel solid sliding door size 1000 x 2100mm high	5	NO			
H	Panel solid double leaf door size 800 x 2400mm high	3	NO			
	<b><u>Flash doors</u></b>					
J	45mm thick solid core door size 900 x 2400mm high	66	NO			
K	45mm thick semi solid doors size 800 x 2400mm high	111	NO			
	<b><u>Frames and frame finishes in wrot soft wood</u></b>					
L	150x50mm door frame	871	LM			
M	100x50mm door frame	680	LM			
N	150x50mm transom	157	LM			
O	100 x 50mm transom	111	LM			
P	50 x 25mm architrave	1,551	LM			
Q	25mm x25mm quadrant	1,551	LM			
	<b>Carried to Collection .....</b>				<b>Ksh.</b>	

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH	CTS
	<b><u>Iron mongery</u></b>					
A	100mm pressed steel butt hinges	432	PRS			
B	2-lever "UNION" mortice lock complete with furniture.	177	NO			
C	3 - lever Ditto	84	NO			
D	Supply and fix rebated "UNION" steel door lock complete with furniture.	17	NO			
E	250x25mm door cramps screwed to door frame and casted into walls with cement and sand (1:2) mortar.	900	NO			
	<b><u>Glazing</u></b>					
F	4mm thick clear sheet glass in fanlight.	50	SM			
G	Ditto in steel door panes oil - 0.5m2 with steel putty.	70	SM			
	<b><u>Painting as described.</u></b>					
	<b><u>Prepare and apply one under coat and two coat gloss oil paints as "CROWN" 1<sup>ST</sup> quality to</u></b>					
H	General surface of wood	926	SM			
I	Ditto but to surface 100-200mm girth.	1,819	LM			
J	To general surface of metal.	180	SM			
	<b><u>Door stoppers</u></b>					
K	32mm rubber door stop with rawl bolt	270	NO			
	<b>CARRIED TO COLLECTION .....</b>				<b>Ksh</b>	
	<b><u>COLLECTION</u></b>					
	<b>Brought forward as from page WK/11</b>					
	<b>Brought down from above.</b>					
	<b>Total for doors carried to summary.....</b>				<b>Kshs.</b>	

**ELEMENT NO. 7-FINISHES**

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH	CTS
	<b><u>Floor</u></b>					
A	25mm thick cement sand (1:3) floor screed to receive terrazzo floor.	3,394	SM			
B	25mm thick polished terrazzo floor finish.	2,820	SM			
C	Ditto to treads, landings and risers	574	SM			
D	100x20mm ditto skirting.	252	SM			
E	3mm thick Aluminium dividing strip set in terrazzo paving.	2,600	LM			
F	38mm thick cement sand (1:3) floor screed prepared to receive ceramic floor tiles.	3,960	LM			
G	500x500mm ceramic Non-slip floor tiles fixed on floor with cement grout including plastic spacer.	3,960	SM			
	<b><u>Walls</u></b>					
H	15mm thick two coat gauged (1:1:6) plaster two walls including columns internally.	8,680	SM			
J	Ditto to reveal and jumps to openings.	450	SM			
K	15mm thick cement and sand (1:3) rendering to walls including columns externally.	872	SM			
L	Extra over render: 20mm thick mazzeras tile claddings to exterior wall sections as per the architect's details	444	SM			
M	Glazed Ceramic wall tile	707	SM			
	<b><u>Ceiling</u></b>					
N	15mm thick 2 gauged plaster to soffites of suspended slabs.	4,790	SM			
O	100mm wide prime wood T&G boarding as ceiling lining secured to 175x50 mm and 50x50mm, joists and branders respectively.	1,250	SM			
P	Extra over ditto for trap door size 600x600mm complete with framing.	2	NO			
Q	75x25mm moulded cornice plugged to wall.	850	LM			
R	Rendering to sides and soffites of RC Gutter					
	<b>Carried to Collection.....</b>				<b>Kshs.</b>	

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH	CTS
	<p><b><u>Painting as described:-</u></b>  <b><u>Prepare and apply one under coat and two coats of first quality silk vinyl paint on:-</u></b></p>					
A	Plastered walls internally including sides of columns	8,680	SM			
B	Reveals of jumps of openings.	450	SM			
	<p><b><u>Painting as described:-</u></b>  <b><u>Prepare and apply one under coat and two coats of first quality exterior paint on:-</u></b></p>					
C	Rendered walls externally including sides of columns and RC fins.	3,680	SM			
	<p><b><u>Painting as described:-</u></b>  <b><u>Prepare and apply one under coat and two coats of first quality silk matt paint on:-</u></b></p>					
D	Soffites of suspended slabs, beams and staircases	4,790	SM			
	<p><b><u>Prepare and apply one under coat and two finishing coats of gloss oil paints on:-</u></b></p>					
E	Wall surface internally (Skirting)	250	SM			
F	26 gauge galvanized sheet metal lining formed and secured to surfaces of RC gutter with provisions for outlets to fix to rain water down pipes. Allow for at least 300mm laps and waterproofing at joints.	1,365	SM			
	<b>Carried to Collection .....</b>					
	<b><u>COLLECTION</u></b>					
	<b>Brought forward from page VCH/13</b>				<b>Ksh.</b>	
	<b>Brought down from above</b>					
	<b>Total for finishes carried to summary.</b>				<b>Ksh.</b>	



**ELEMENT NO. 7 - FIXTURES**

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH	CTS
A	<p><b><u>Railings</u></b>  <b>Extra over ramps, staircase and balconies:</b>  <b>Hand rails and guard rails</b></p> <p>50mm dia x3.5mm thick CHS balustrading ditto posts spaced at 1.5mm centres, 25mmdia x3mm thick CHS vertical intermediate members, overall height; 900mm. Weld, prime, hoist and fix to position including anchoring to concrete or walls and finish as appropriate to the satisfaction of the architect</p>	1,152	SM			
B	<p>Prepare and apply one undercoat and two finishing coats of first quality super gloss paint to general surfaces of metal</p>	1,152	SM			
	<p><b>Total for fixtures Carried to Summary ...</b></p>			Ksh.		

**ELEMENT NO.8 - PLUMBING WORKS**

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH	CTS
	<b><u>Supply and fix the following sanitary fittings including all Necessary jointing materials and joints to supply waste and overflow pipes.</u></b>					
A	Twyfords Hindustan vitreous china was hand basin size 500x400mm fixed on semi-concealed brackets with two 'BRICON' chromium plated bit taps marked "HOT" and cold.	8	NO			
B	Twyfords Hindustan "Low level w.c. suite comprising vitreous china pan with "P" Trap 2 gallon ceramic cistern, seat and cover flush pipe and all necessary accessories.	12	NO			
C	High level "Twyfords" W.C. suite "Asian type' complete with 9 litres ceramic cistern, flush pipe and all other necessary accessories.	12	NO			
D	Allow a sum of Kenya Shillings Two Hundred Thousand only for the supply of 2No. 10,000 litres cold water storage tank complete with the base.		ITEM			
E	Allow a provisional a sum of Kenya Shillings Twenty Thousand only for a booster Electrical pump complete with the pump house.		ITEM			
F	450X600mm polished mirror with chromium platead dome shaped screws.	8	NO			
G	20mm diameter x 600mm long chromium plated towel rail.	8	NO			
H	Toilet roll holder					
J	200x300x6mm white glazed wall tiles to walls with and including cement sand (1;3) backing.	24	NO			
		100	SM			
	<b>Carried to Collection .....</b>				Ksh.	

**CONSTRUCTION OF A SIX STOREY 160 BED PLAZA AT VIHIGA  
COUNTY REFERRAL HOSPITAL**

ITEM	DESCRIPTION	KSHS	CTS
	<b>SUMMARY: BUILDER'S WORK</b>		
A	Substructures from page VCH/03		
B	Walling from page VCH/04		
C	Framework from page VCH/05		
D	Roof from page VCH/08		
E	Windows from page VCH/10		
F	Doors from page VCH/11		
G	Finishes from page VCH/14		
H	Fixtures from page VCH/15		
	<b>Total Carried to Grand Summary .....</b>	<b>Ksh.</b>	

**BILL NO.3**  
**P.C. AND PROVISIONAL**  
**SUMS**

ITEM	P.C. AND PROVISIONAL SUMS	KSHS	CTS
A	Allow a provisional sum of Kenya shillings six million only for contingencies	6,000,000	00
B	Allow a provisional sum of Kenya shillings seventeen million five hundred thousand only for mechanical works- (Building services) to involve plumbing works, connection of sewer to existing line, firefighting equipment and a 1350 Kg load capacity elevator	17,500,000	00
C	Allow a provisional sum of Kenya Shillings Five Million for external works; landscaping and pavings.	5,000,000	00
<b>Total for P.C. and Provisional Sums carried to Grand Summary.....</b>		<b>28,500,000</b>	<b>00</b>

## GRAND SUMMARY

PROPOSED CONSTRUCTION OF A SIX STOREY 160 BED PLAZA AT VIHIGA COUNTY REFERRAL HOSPITAL					
ITEM	DESCRIPTION	CONTRACTOR'S USE		OFFICIAL USE	
		SHS	CTS	SHS	CTS
A	BILL NO. 1 - Preliminaries, Page PRS/1				
B	BILL NO. 2 -Measured works from Page /01				
C	BILL NO. 3- PC & Provisional sums Page VCH/PC 01	28,500,000	00		
	SUB-TOTAL				
	ADD V.A.T ..... 16%.				
	GRAND TOTAL CARRIED TO FORM OF TENDER				

AMOUNT IN WORDS: .....

.....

.....

CONTRACTOR'S FIRM: .....

ADDRESS: .....

SIGNATURE: ..... DATE: .....

CLIENT NAME: .....

ADDRESS: .....

SIGNATURE: .....DATE: .....

WITNESS: .....

ADDRESS: .....

SIGNARTURE: ..... DATE: .....