

# BILL OF QUANTITY

FOR

**PROPOSED RESIDENTIAL HOUSE FOR SHAMS  
DEVELOPMENT CO LTD ON PLOT NO.340 MSASANI RD**

**CLIENT : SHAMS DEVELOPMENT CO LTD  
P.O BOX 71119  
DAR ES SALAAM  
TANZANIA**



**CONSULTANT : MWAKAARCH CONSULT LTD  
Architects and Projects Management consultants  
P.O BOX 35492  
DAR ES SALAAM  
TANZANI**

**JUNE, 2022**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>PRELIMINARIES</b>				
A	Mobilization and Demobilization	1	sum	3,000,000	3,000,000.00
B	Allow sum for scaffolding	1	sum	7,000,000	7,000,000.00
C	Water and Electricity for the works	1	sum	2,000,000	2,000,000.00
D	Allow sum for temporary office,store and other facilities	1	sum	2,500,000	2,500,000.00
E	Watchmen	1	sum	1,000,000	1,000,000.00
F	Project Sign board	1	sum	7,000,000	7,000,000.00
G	Allow um for general cleaning of the site	1	sum	1,000,000	1,000,000.00
	Allow sum for Insurance and Bond	1	sum	1,500,000	1,500,000.00
	<b>PRELIMINARIE CARRIED TO GENERAL SUMMARY</b>			<b>TSH</b>	<b>25,000,000.00</b>



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b>ELEMENT NR 1 : SUBSTRUCTURE</b>					
A	Excavate over site average 150mm deep to remove vegetable soil and remove from site	204	m <sup>2</sup>	1,500	306,000.00
B	Excavate to reduce levels	61	m <sup>3</sup>	3,000	183,600.00
C	Excavate for column bases	49	m <sup>3</sup>	5,000	245,000.00
D	Excavate trench to receive strip foundation commencing at reduced level, not exceeding 1.5metres deep	104	m <sup>3</sup>	5,000	520,000.00
E	Select earth back filling around foundation, well compacted in 250mm layers to engineer's satisfaction	105	m <sup>3</sup>	4,000	420,000.00
F	Imported earth filling well rammed and consolidated to make up levels under floor 150 mm average thick	45	m <sup>3</sup>	30,000	1,350,000.00
G	Load up surplus excavated material and remove from site	140	m <sup>3</sup>	6,000	840,000.00
<b>Disposal of Water</b>					
H	Allow for keeping excavations free from water (except spring or running water) by pumping, baling or by other means necessary		Item		500,000.00
<b>Planking and Strutting</b>					
I	Allow for the provision and subsequent removal of planking and strutting to uphold and maintain all faces of excavations		Item		500,000.00
<b>Hardcore</b>					
J	150mm Bed levelled and blinded	150	m <sup>2</sup>	10,000	1,500,000.00
<b>Soil Sterilization</b>					
K	Gamalin 20 EC solution applied at a rate of 7 litres per square meter to hardcore bed	150	m <sup>2</sup>	3,000	450,000.00
L	Ditto at a rate of 8 liters per linear metres 235mm width x 800mm deep backfilling to one side of wall foundations	50	m	4,000	200,000.00
<b>To Collection</b>				TSH	



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>CONCRETE WORK</b>				
	<b>Plain Concrete Grade '15'</b>				
A	50 mm Blinding	102	m <sup>2</sup>	10,000	1,020,000.00
	<b>Plain Concrete Grade '20'</b>				
B	100mm thick bed	150	m <sup>2</sup>	250,000	37,500,000.00
	<b>Reinforced concrete grade '25' including vibration around reinforcement</b>				
C	Ground beam	11	m <sup>2</sup>	350,000	3,850,000.00
D	Strip foundation	18	m <sup>3</sup>	350,000	6,300,000.00
	<b>Reinforced concrete grade '30' including vibration around reinforcement</b>				
E	Column bases	14	m <sup>3</sup>	450,000	6,300,000.00
F	Columns square	1	m <sup>3</sup>	450,000	450,000.00
G	Columns round	1	m <sup>3</sup>	450,000	450,000.00
	<b>Reinforcement (provisional)</b>				
	<b>High tensile steel square twisted bar reinforcement to BS 4461:1969</b>				
H	Assorted bars 8mm - 25mm Diameter	5,400	Kg	4,500	24,300,000.00
I	A142 BRC mesh	150	m <sup>2</sup>	12,000	1,800,000.00
	<b>Sawn formwork to</b>				
J	Vertical sides of strip foundation	60	m <sup>2</sup>	25,000	1,500,000.00
K	Vertical sides of column bases and the like	33	m <sup>2</sup>	25,000	825,000.00
L	Vertical sides of columns	13	m <sup>2</sup>	25,000	325,000.00
M	Ditto to circular columns , 115mm radius	2	m <sup>2</sup>	25,000	50,000.00
N	Sides of beams	90	m <sup>2</sup>	25,000	2,250,000.00
	<b>To Collection</b>			TSH	88,920,000.00



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>Walling</b>				
A	230mm Solid concrete block wall as described laid in cement and sand mortar (1:3)	80	m <sup>2</sup>	40,000	3,200,000.00
	<b>Sundries</b>				
B	12mm Cement and sand (1:3) external rendering to concrete block wall	30	m <sup>2</sup>	8,000	240,000.00
C	Prepare and apply two coats of black bituminous paint on rendered or concrete surfaces, externally	30	m <sup>2</sup>	8,000	240,000.00
	To collection			TSH	3,680,000.00
	COLLECTION				
	Page 2/1/1				7,014,600.00
	Page 2/1/2				86,920,000.00
	Page 2/1/3				3,680,000.00
	<b>ELEMENT NR 1: SUBSTRUCTURE CARRIED TO SUMMARY OF BILL NR. 2</b>			TSH	97,614,600.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>ELEMENT NR 2: FRAME</b>				
	<b>CONCRETE WORK</b>				
	<b>Reinforced concrete grade '30' including vibrating arnd reinforcement</b>				
A	Columns	5	m <sup>3</sup>	450,000	2,250,000.00
B	Horizontal beams	27	m <sup>3</sup>	450,000	12,150,000.00
C	150mm Horizontal suspended slab	350	m <sup>2</sup>	67,500	23,625,000.00
	100mm Horizontal slab for worktop Top roof	5	m <sup>2</sup>	45,000	225,000.00
	<b>Reinforcement (provisional)</b>				
	<b>High tensile steel square twisted bar reinforcement to BS 4461:1969</b>				
D	Assorted bars 8mm - 25mm Diameter	10,200	Kg	4,500	45,900,000.00
	<b>Sawn formwork to</b>				
E	Vertical sides of columns	80	m <sup>2</sup>	25,000.00	2,000,000.00
F	Ditto to circular column 115mm dia	18	m <sup>2</sup>	25,000.00	450,000.00
G	Sides and soffits of horizontal beams	278	m <sup>2</sup>	25,000.00	6,950,000.00
H	Horizontal soffits of suspended slab	355	m <sup>2</sup>	25,000.00	8,875,000.00
	<b>ELEMENT NR.2: FRAME CARRIED TO SUMMARY OF BILL NR. 2</b>			<b>TSH</b>	<b>102,425,000.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>ELEMENT NR. 3: STAIRS</b>				
	<b>CONCRETE WORK:</b>				
	<b>Reinforced concrete grade '30' including vibrating around reinforcement</b>				
A	Stairs	3	m <sup>3</sup>	450,000	1,350,000.00
B	Horizontal beams	2	m <sup>3</sup>	450,000	900,000.00
C	150 mm Thick landing	8	m <sup>2</sup>	67,500	540,000.00
	<b>Reinforcement</b>				
	<b>High tensile steel square twisted bar reinforcement to BS 4461:1969</b>				
D	Assorted bars 8mm - 16mm Diameter	744	Kg	4,500	3,348,000.00
	<b>Sawn formwork to</b>				
E	Horizontal soffits of suspended landing	7	m <sup>2</sup>	25,000	175,000.00
F	Sloping soffits of sloping stairs	15	m <sup>2</sup>	25,000	375,000.00
G	Sides and soffits of horizontal beams	10	m <sup>2</sup>	25,000	250,000.00
H	Vertical risers over 75mm but not exceeding 150mm high	36	m	5,000	180,000.00
I	Vertical side of stair string 250mm (extreme) high	12	m	5,000	60,000.00
	<b>To Collection</b>			<b>TSH</b>	<b>7,178,000.00</b>

ITEM	DESCRIPTION	QNTTY	UNIT	RATE	AMOUNT
A	Balustrade to Balcony/ Terrace and top roof				
	Black pipe and Flat bars				
	40mm dia top rail and bottom rail, 25mm dia intermediate rail and 40mm vertical rails c-c 2000mm and 5x 3/4 flat bars spaced 200mm c-c	60	m	180,000	10,800,000.00
	To Collection			TSHS	10,800,000.00
	COLLECTION				
	Page 2/3/1				7,178,000.00
	Page 2/3/2				10,800,000.00
	ELEMENT NR. 3: STAIRS CARRIED TO SUMMARY OF BILL NR. 2			TSH	17,978,000.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b>ELEMENT NR 4: WALLS</b>					
A	150 x 250mm lintel, comprising four 16mm diameter High tensile steel bars and 8mm diameter mild steel links at 200mm centres	0	m	50,000	-
<b>Solid concrete blocks to B.S. 2028 type 'A' bedded, jointed in cement mortar (1:4)</b>					
B	150mm thick	10	m <sup>2</sup>	30,000	300,000.00
C	230mm thick	354	m <sup>2</sup>	40,000	14,160,000.00
D	100mm thick parapet wall	14	m <sup>2</sup>	30,000	420,000.00
E	100x150x1000mm high column at 3000mm c/c to support parapet wall including 4no 10mm dia reinforcement and formwork	0	no	30,000	-
F	Coping 100mmthick x250mm wide reinforced 4no 12mm rolled mild steel bar, 8mm diameter mild steel links at 200mm centers, weathered twice, finish fair on faces	80	m	35,000	2,800,000.00
<b>ELEMENT NR 4: WALLS CARRIED TO SUMMARY OF BILL NR. 2</b>				<b>TSH</b>	<b>17,680,000.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>ELEMENT NR 5: DOORS</b>			..	
A	Supply and fix 40mm thick pannel door size 1200 x 2100mm high C	1	nr	2,850,000.00	2,850,000.00
B	Ditto size 900x2100mm high	5	nr	1,000,000.00	5,000,000.00
C	Ditto size 800x2100mm high	9	nr	1,000,000.00	9,000,000.00
D	Supply and fix 40mm thick Security door complete with its ironmongeries size 900 x 2100mm high	2	nr	1,125,000.00	2,250,000.00
	<b>Prime quality hardwood Mninga or Mkonggo</b>				
E	145 x 45mm Frame with one labour	77	m	40,000.00	3,080,000.00
F	75 x 35mm moulded Architrave	154	m	12,000.00	1,848,000.00
	<b>Sawn Hardwood</b>				
G	75 x 15mm Ground, plugged	77	m	1,000.00	77,000.00
	<b>Ironmongery</b>				
	<b>Supply and fix the following satin finished 'UNION' ironmongery or other equal and approved from M/s Assa Abloy or other authorized suppliers to hard wood with matchina screws</b>				
H	100mm door hinges	16	prs	15,000.00	240,000.00
I	Three levers mortice lock	15	nr	150,000.00	2,250,000.00
J	Door stop	16	nr	8,000.00	128,000.00
	<b>To Collection</b>			TSH	26,723,000.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b>Painting</b>					
A	Well rub down and apply three coats of matt varnish to general surfaces of timber doors	61	m <sup>2</sup>	8000	488,000.00
B	Ditto to timber frames not exceeding 100mm girth	154	m	3000	462,000.00
E	Ditto over 100 but not exceeding 200mm girth	77	m	4,000.00	308,000.00
<b>To collection</b>				<b>TSH</b>	1,258,000.00
<b>COLLECTION</b>					
	Page 2/5/1				26,723,000.00
	Page 2/5/2				1,258,000.00
<b>ELEMENT NR 5: DOORS CARRIED TO SUMMARY OF BILL NR. 2</b>				<b>TSH</b>	27,981,000.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>ELEMENT NR 6: WINDOWS</b>				
	<b>Metalwork</b>				
	<b>Approved colour framed powder coated aluminium windows complete with 5mm tinted glass, mosquito net and ironmongery</b>				
	Window size 3100 x 1460mm high	1	nr	1,357,800	1,357,800.00
A	Window size 2400 x 2550mm high	1	nr	1,836,000	1,836,000.00
B	Window size 2400 x 2100mm high	2	nr	1,512,000	3,024,000.00
C	Window size 2400 x 1600mm high	2	nr	1,152,000	2,304,000.00
D	Window size 2200 x 1600mm high	2	nr	1,056,000	2,112,000.00
E	Window size 1800 x 1600mm high	9	nr	864,000	7,776,000.00
F	Window size 1500 x 4600mm high	1	nr	2,070,000	2,070,000.00
G	Window size 1500 x 900mm high	3	nr	405,000	1,215,000.00
H	Window size 1470 x 1460mm high	1	nr	643,860	643,860.00
I	Window size 600 x 700high.	6	nr	126,000	756,000.00
J	Supply and fix window grill INCLUDE MARINE	77	m <sup>2</sup>	250,000	19,250,000.00
	<b>ELEMENT NR 6: WINDOWS CARRIED TO SUMMARY OF OF BILL NR. 2</b>			<b>TSH</b>	<b>42,344,660.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b>ELEMENT NR 7: ROOF</b>					
<b>Concrete roof finishing</b>					
A	Prepare and apply 40mm thick terrazo to concrete roof and worktop at the roof top roof	220	m <sup>2</sup>	80,000	17,600,000.00
<b>PAGOLA CONSTRUCTION</b>					
<b>TRANSPARENT ROOF FINISHING</b>					
B	Supply and fix transparent roof covering at the roof top fixed to hardwood roof structure (m/s) including it accessories	24	m <sup>2</sup>	45,000	1,080,000.00
<b>ROOF SRUCTURE (HARDWOOD TIMER)</b>					
C	50x100 Rafters	26	m	30,000	780,000.00
D	50x100 Wall plate	12	m	30,000	360,000.00
E	50X50 Purline	18	m	15,000	270,000.00
<b>PLACK PIPE</b>					
F	100mm Dia black pipe column for the roof structure	6	m	30,000	180,000.00
<b>ELEMENT NR 7: ROOF CARRIED TO SUMMARY OF OF BILL NR. 2</b>				<b>TSH</b>	<b>20,270,000.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b>ELEMENT NR 8: FINISHING</b>					
<b>INSITU FINISHING</b>					
<b>Internal and External rendering in two coats finished</b>					
A	25mm To walls	709	m <sup>2</sup>	12,000	8,503,200.00
B	15mm To soffits of suspended ceiling	355	m <sup>2</sup>	12,000	4,260,000.00
C	Ditto to side of beams	278	m <sup>2</sup>	12,000	3,336,000.00
D	Ditto to soffits of Landings	8	m <sup>2</sup>	12,000	96,000.00
E	Ditto to slopping soffits of stairs	15	m <sup>2</sup>	12,000	180,000.00
	Vertical side of stair string 175mm (extreme) high	12	m	2,100	25,200.00
<b>TILES, SLABS AND BLOCK FINISHING</b>					
<b>Polished Crema Marrfil Marble tiles, or other equal and approved, grouting joints with matching cement paste with antifungal additive</b>					
F	400 x 400 x 10mm To floors and paving	322	m <sup>2</sup>	80,000.00	25,760,000.00
G	To landings	8	m <sup>2</sup>	80,000.00	640,000.00
H	To treads 300mm wide with non slip inserts	43	m	24,000.00	1,032,000.00
I	To risers of steps 150mm high	48	m	12,000	576,000.00
J	150 x 6mm Porcelain skirting tiles	180	m	12,000	2,160,000.00
K	Vertical side of stair string 175mm (extreme) high	12	m	14,000	168,000.00
<b>Spanish porcelain tiles as before described to walls</b>					
L	200 x 300 x 6mm To walls	255	m <sup>2</sup>	30,000	7,650,000.00
<b>Beds and Backinas</b>					
<b>Cement and sand (1:4) wood floated surface</b>					
M	32mm Bed to receive floor tiles	322	m <sup>2</sup>	12,000	3,864,000.00
N	9mm Backing to receive wall tiles	255	m <sup>2</sup>	12,000	3,060,000.00
O	Ditto to receive skirting tiles	180	m	4,000	720,000.00
P	Ditto to treads	45	m	4,000	180,000.00
Q	Ditto to riser	47	m	4,000	188,000.00
	To collectio				62,398,400.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Supply and fix gypsum board fixed to 600x600mm branderling (m/s)	314	m <sup>2</sup>	20,000	6,280,000.00
B	50x50 Branderling	1570	m	4,000	6,280,000.00
C	Cornice	220	m	2,500	550,000.00
<b>TANGA STONE</b>					
D	Natural Tanga stone tiles externally	36	m <sup>2</sup>	80,000.00	2,880,000.00
<b>Unplasticised PVC pipes and fittings to B.S. 3506</b>					
E	100mm down Pipes fixed firm to walls with holder	30	m	15,000	450,000.00
F	Shoe	3	nr	12,000	36,000.00
G	Bend	3	nr	12,000	36,000.00
H	Swanneck	3	nr	12,000	36,000.00
<b>"Fulbora" cast iron rainwater outlet</b>					
I	100mm Vertical spigot outlet with dome grating, cast	3	nr	50000	150,000.00
To Collection					3,588,000.00
Collection					
Page 2/8/1					62,398,400.00
Page 2/8/2					3,588,000.00
<b>ELEMENT NR 8: FINISHING CARRIED TO SUMMARY OF BILL NR. 2</b>				<b>TSH</b>	<b>65,986,400.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>ELEMENT NR 9: DECORATIONS</b>				
	<b>INTERNAL WORK</b>				
	Prepare and apply one thinned coat and two full coats of approved silk vinyl washable paint/weather guard				
A	Plastered walls	709	m <sup>2</sup>	8,000	5,668,800.00
B	Sides of plastered beams	278	m <sup>2</sup>	8,000	2,224,000.00
C	Gypsum ceiling and Soffits of plastered suspended ceiling	355	m <sup>2</sup>	8,000	2,840,000.00
D	Soffits of plastered staircase landing	8	m <sup>2</sup>	8,000	64,000.00
E	Sloping soffits of plastered stairs	15	m <sup>2</sup>	8,000	120,000.00
	<b>ELEMENT NR. 9 DECORATIONS CARRIED TO SUMMARY OF BILL NR. 2</b>			<b>TSH</b>	<b>10,916,800.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>ELEMENT NR 10: PLUMBING AND ENGINEERING INSTALLATIONS</b>				
	Supply and fix the following sanitary appliances (Grohe/Armitage shanks /Twyfords ) including all connections and fixing to floor or wall where necessary				
A	Jaccuz 3170 x1187mm	1	nr	2,300,000.00	2,300,000.00
B	WC WESTERN TYPE	8	nr	450,000.00	3,600,000.00
C	Flexible plastic conversion bend outlet connector	12	nr	45,000.00	540,000.00
D	560 x 750mm White vitreous china wash hand basin complete with pedal stand, brackets, 32mm waste chain and plug and 32mm bottle trap at ground floor	4	nr	320,000.00	1,280,000.00
E	White ceramic shower tray size 800x1000mm complete with fittings	4	nr	350,000.00	1,400,000.00
F	Shower rose with hot/cold mixer COMPLETE SET	6	nr	350,000.00	2,100,000.00
G	1200 x 600mm Single bowl and drainer stainless steel kitchen sink complete with waste chain and plug and chromlum plated mixer tap	1	nr	350,000.00	350,000.00
H	150 x 150mm Recessed white vitreous china toilet roll holder built into blockwork	8	nr	65,000.00	520,000.00
I	Towel hanger	20	nr	40,000.00	800,000.00
J	150 x150mm Recessed white vitreous china soap dish built into blockwork	8	nr	25,000.00	200,000.00
K	Floor trap complete with dome grating	8	nr	25000	200,000.00
L	Shattaf complete	8	nr	45000	360,000.00
M	Double shelf stanless steel	4	nr	50000	200,000.00
O	Single tumbler holder	3	nr	25000	75,000.00
P	Soap dispenser	8	nr	25000	200,000.00
Q	Soap dispenser cooper	8	nr	25000	200,000.00
R	Toilet brush	8	nr	25,000.00	200,000.00
S	Cabinet with led light size 600x 475 8209B faucent with drainer set	6	nr	450,000.00	2,700,000.00
T	Ventillation cap	4	nr	25,000.00	100,000.00
					17,325,000.00
	CARRIED FORWARD				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BROUGHT FORWARD				17,325,000.00
A	PPR PIPE(2.0)5.8M 20mm	21	PCS	16,000.00	336,000.00
B	PPR 90 ELBOW 20mm	40	PCS	700.00	28,000.00
C	PPR TEE 20mm	30	PCS	980.00	29,400.00
D	PPR FEMALE ELBOW 20*1/2	50	PCS	5,150.00	257,500.00
E	PPR DOUBLE FEMALE THREAD ELBOR WITH SEAT 20*1/2	6	PCS	11,480.00	68,880.00
F	PPR PRODUCER 32mm	20	PCS	793.13	15,862.50
G	PPR MALE THREAD PLUG 20mm	60	PCS	455.63	27,337.50
H	PPR SOCKET 20mm	20	PCS	624.48	12,489.66
I	PPR BENDING PIPE 20mm	15	PCS	1,350.00	20,250.00
J	PPR PIPE(1.6)5.8M 32mm	25	PCS	30,375.00	759,375.00
K	PPR 90 ELBOW 32mm	40	PCS	1,434.38	57,375.00
L	PPR TEE 32mm	40	PCS	2,025.00	81,000.00
M	PPR SOCKET 32mm	25	PCS	1,063.13	26,578.13
N	PPR FEMALE ELBOW 32*1	10	PCS	15,187.50	151,875.00
O	PPR MALE SOCKET 32*1	10	PCS	14,850.00	148,500.00
P	PPR STOP VALVE 32mm	4	PCS	27,000.00	108,000.00
Q	PVC PIPE 5.8M 50mm	9	PCS	24,468.75	220,218.75
R	PPR CONCEALED VALVE 20mm	16	PCS	37,125.00	594,000.00
S	PVC SQUARE FLOOR DRAIN 50mm	8	PCS	11,070.00	88,560.00
T	PVC 45 ELBOW 50mm 50mm	30	PCS	2,565.00	76,950.00
U	PVC SOLVENT CEEMENT 500 ML	4	PCS	15,930.00	63,720.00
V	PVC 90 ELBOW 50mm	40	PCS	2,565.00	102,600.00
W	PVC TEE 50mm	30	PCS	2,700.00	81,000.00
X	PVC CLAMP WITH CREW 50mm	20	PCS	4,725.00	94,500.00
Y	PVC WYE 50mm	25	PCS	2,868.75	71,718.75
Z	PVC CLEANOUT 50mm	30	PCS	2,362.50	70,875.00
	CARRIED FORWARD				20,917,565.29

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BROUGHT FORWARD				
A	PVC PIPE 5.8M 75mm				20,917,565.29
B	PVC 90 ELBOW 75mm	6	PCS	41,343.75	248,062.50
C	PVC WYE 75mm	16	PCS	4,978.13	79,650.00
D	PVC BUSH 75*50mm	8	PCS	6,159.38	49,275.00
E	PVC TEE 75mm	16	PCS	2,868.75	45,900.00
F	PVC VENT CAP 75mm	8	PCS	5,906.25	47,250.00
G	PVC CLAMP WITH CREW 75mm	4	PCS	2,362.50	9,450.00
E	PVC PIPE 110mm	24	PCS	4,471.88	107,325.00
F	PVC 90 ELBOW 110mm	7	PCS	63,618.75	445,331.25
H	PVC CLEANOUT 110mm	15	PCS	9,112.50	136,687.50
I	PVC WYE 110mm	7	PCS	6,024.38	42,170.63
J	PVC 45 ELBOW 110mm	6	PCS	15,862.50	95,175.00
K	PVC CLAMP WITH CREW 110mm	10	PCS	7,087.50	70,875.00
L	PVC VENT CAP 110mm	25	PCS	6,243.75	156,093.75
M	Water heater arister 300ltrs	4	PCS	2,868.75	11,475.00
		1	PCS	3,500,000.00	3,500,000.00
ELEMENT NR 10: PLUMBING ENGINEERING INSTALLATIONS CARRIED TO SUMMARY OF BILL NR 2					25,962,285.91

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b>ELEMENT NR 11: ELECTRICAL INSTALLATIONS</b>					
A	1.5 Singlewire Euro	33	Roll	50,625.00	1,670,625.00
B	2.5 Single wire Euro	30	Roll	208,250.00	6,247,500.00
C	4MM Single wire	1.875	Roll	127,400.00	238,875.00
D	Ammerd cable 16x4W	20	PC	32,400.00	648,000.00
E	switch socket 13A MEM	10	PC	6,750.00	67,500.00
F	Twin socket 13A MEM	45	PC	20,250.00	911,250.00
G	Coker contrl MEM	10	PC	49,950.00	499,500.00
E	Celling FAN PANASONIC	10	PC	18,900.00	189,000.00
F	1 GANG 2WAY MEM	15	PC	5,670.00	85,050.00
C	2 GANG 2 WAY MEM	10	PC	8,100.00	81,000.00
H	3 GANG 2WAY MEM	5	PC	12,420.00	62,100.00
I	4 GANG 2 WAY MEM	5	PC	16,875.00	84,375.00
J	D.P Switch 20A MEM	10	PC	21,600.00	216,000.00
K	CITIES 300.36	1.25	PC	6,210.00	7,762.50
L	SNAKE WIRE 30MTR	2.5	PC	8,775.00	21,937.50
M	INSOLUTION TAPE	2.5	PC	50,081.35	125,203.38
N	TV SOCKET	6	PC	6,075.00	36,450.00
O	Mainswitch 16WAYS	1	PC	2,000,000.00	2,000,000.00
P	ELECTRIC LIGHT	45	PCS	35,000.00	1,575,000.00
<b>ELEMENT NR 11: ELECTRICAL INSTALLATIONS CARRIED TO SUMMARY OF BILL NR 2</b>					<b>14,767,128.38</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b>ELEMENT NR 12: AIR CONDITIONER INSTALLATIONS</b>					
A	Air conditions split unit 24,000 BTU complete with its accessories including copper pipes, installation cables and its switch Gears, wall mounting brackets and the Automatic voltage Stabilizer (AVS)	pcs	3	4,000,000	12,000,000
B	Air conditions split unit 18,000 BTU complete with its accessories including copper pipes, installation cables and its switch Gears, wall mounting brackets and the Automatic voltage Stabilizer (AVS)	pcs	4	3,000,000	12,000,000
<b>ELEMENT NR 12: AIR CONDITIONER INSTALLATIONS CARRIED TO SUMMARY OF BILL NR 2</b>					24,000,000.00



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b>BILL NO 4: PRIME COST AND PROVISIONAL SUMS</b>					
<b>PRIME COST SUMS</b>					
A	Supply material, fabricate and fix Kitchen cabinets	8	no	11,040,000.00	88,320,000.00
B	Trnasformer 50KVA and cable installation	1	no	57,400,000.00	57,400,000.00
C	Water connection	1	item	2,500,000.00	2,500,000.00
D	cctv cameras	1	item	11,455,000.00	11,455,000.00
F	Fire extinguishers	8	no	450,000.00	3,600,000.00
G	Water heater solar 300 trs WITH PRESSURE PUMPS	1	item	36,000,000.00	36,000,000.00
<b>GENERATOR</b>					
H	Supply and install Generator, cabling and othe accessories	1	item	96600000	96,600,000.00
<b>WADROABS &amp; TV TABLES</b>					
I	WADROABS 4NO	8		17,500,000.00	140,000,000.00
J	TV TABLES 6NO	8		28,500,000.00	228,000,000.00
<b>STAIR CASE AND TOUGHENED GLASS SHOWER</b>					
<b>STAIR</b>					
K	10mm clear tempered glass with wall brackets and 50x60mm Hardwood Top rail 13 r/m	8	pcs	6727500	53,820,000.00
L	10mm clear tempered glass with Aluminium U Channel and Top SS pipe support 1250 heigh and 2100 wide	16	pcs	724500	11,592,000.00
M	10mm clear tempered glass fix with U Channel and Top pipe support Door with all accessories 1080mm heigh and 2100 wide	16	pcs	834624	13,353,984.00
CARRIED FORWARD					742,640,984.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>BROUGHT FORWARD</b>				<b>742,640,984.00</b>
A	10mm clear tempered glass fix with U Channel and Top pipe support Door with all accessories 1100mm heigh and 2100 wide	8	pcs	850080	6,800,640.00
B	10mm clear tempered glass with Aluminium U Channel and Top SS pipe support 750 heigh and 2100 wide	8	pcs	434700	3,477,600.00
C	10mm clear tempered glass fix with U Channel and Top pipe support Door with all accessories 1420mm heigh and 2100 wide	8	pcs	1097376	8,779,008.00
D	10mm clear tempered glass with Aluminium U Channel and Top SS pipe support 620 heigh and 2100 wide	8	pcs	359352	2,874,816.00
<b>BILL NR 2: PC AND PROVISIONAL SUMS TO GENERAL SUMMARY</b>				<b>TSH</b>	<b>764,573,048.00</b>

**BILL NO.4 EXTERNAL WORKS**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b>EXTERNAL TILES WORK</b>					
A	Excavate over site average 150mm deep to remove vegetable soil and remove from site	1835	m <sup>2</sup>	1,500.00	2,752,500.00
B	Imported filling material including compacting and watering to average thickness of 150mm depth	276	m <sup>3</sup>	30,000.00	8,280,000.00
C	Supply and fix external tiles including bedding	1835	m <sup>2</sup>	40,000.00	73,400,000.00
<b>EXTERNAL GUARDEN</b>					
D	External garden including block work, garden soil and grasses	16	no	400,000.00	6,400,000.00
<b>PLANTING TREES</b> Supply and plant tree maintain until established					
E	Palm tree/madafu	16	no	100,000.00	1,600,000.00
F	Ashok trees	200	no	25,000.00	5,000,000.00
G	Chrissmass tree (seeder)	8	no	150,000.00	1,200,000.00
H	Maua (flower)	200	no	5,000.00	1,000,000.00
<b>SEPTIC TANK</b>					
I	Excavate for and construct septic tank (4000x8000x4000mm deep with 200mm concrete floor, 230mm block walls, 200mm reinforced top slab and cast iron 230x230x4000mm long beam for baffle wall and ring beam	2	no	18,000,000.00	36,000,000.00
<b>INSPECTION CHEMBER (MANHOLE)</b>					
J	Excavate for and construct manhol chamber size (600x600x500mm deep) internal dimensions with plan concrete floor, 150mm block works and cast iron manhole cover	47	no	200,000.00	9,400,000.00
<b>GULLY TRAP</b>					
K	Excavate for and construct GULLY TAP size (450x450x400mm deep) internal dimensions with plan concrete floor, 150mm block works and cast iron manhole cover	42	no	120,000.00	5,040,000.00
<b>CARRIED FORWAD</b>					150,072,500.00

**BILL NO.4 EXTERNAL WORKS**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>BROUGHT FORWAD</b>				<b>150,072,500.00</b>
	<b>DRAINAGE PIPE</b>				
A	160mm UPVC PIPE	10	pcs	114,750.00	1,147,500.00
B	75mm UPVC PIPE	20	pcs	31,000.00	620,000.00
C	110mm UPVC Elbow 90'	30	pcs	6,480.00	194,400.00
D	110mm UPVC Elbow 90' with CLEANOUT	25	pcs	8,640.00	216,000.00
E	160x110mm Gully Trap-P	25	pcs	6,750.00	168,750.00
F	110mmUPVC TEE	20	pcs	8,640.00	172,800.00
G	75mm UPVC ELBOW 45'	20	pcs	1,950.00	39,000.00
H	75mm UPVC ELBOW 90'	30	pcs	3,380.00	101,400.00
I	75mm UPVC ELBOW 90' with CLEANOUT	30	pcs	4,860.00	145,800.00
J	75mm UPVC COUPLING	30	pcs	1,750.00	52,500.00
K	110mm UPVC COUPLING	30	pcs	3,580.00	107,400.00
L	50mm UPVC ELBOW 45'	20	pcs	1,550.00	31,000.00
M	50mm UPVC ELBOW 90'	20	pcs	1,620.00	32,400.00
N	500ML UPVC SOLVENT CEMENT	10	pcs	9,750.00	97,500.00
	<b>FENCE WORK</b>				
O	Excavate trench for fence a.b.d	157	m <sup>3</sup>	5,000.00	785,000.00
P	Sand blinding to the footing of foundation wall	24	m <sup>3</sup>	25,000.00	600,000.00
	<b>Foundation wall</b>				
Q	230mm thick wall a.b.d	224	m <sup>2</sup>	40,000.00	8,960,000.00
	<b>Concrete to column and beam class 25</b>				
R	Column sizes 230x230x3500mm high	11	m <sup>3</sup>	350,000.00	3,850,000.00
S	230x230mm ground beam	12	m <sup>3</sup>	350,000.00	4,200,000.00
	<b>Reinforcement a.b.d to column and beam</b>				
T	Y12&Y8mm dia	2760	kg	4,500.00	12,420,000.00
	<b>Sawn formwork to</b>				
U	Vertical sides of columns	180	m <sup>2</sup>	25,000.00	4,500,000.00
V	Sides and soffits of horizontal beams	134	m <sup>2</sup>	25,000.00	3,350,000.00
	<b>CARRIED FORWAD</b>				<b>191,863,950.00</b>

**BILL NO.4 EXTERNAL WORKS**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>BROUGHT FORWAD</b>				<b>191,863,950.00</b>
	<b>Super Structure 150Wall</b>				
A	150mm wall	559	m <sup>2</sup>	30,000.00	16,770,000.00
B	Plastering a.b.d	1115	m <sup>2</sup>	12,000.00	13,380,000.00
C	Tanga stone a.b.d	150	m <sup>2</sup>	60,000.00	9,000,000.00
D	Prepare and apply weather guard paint to fence wall a.b.d	965	m <sup>2</sup>	8,000.00	7,720,000.00
E	Supply and fix Entrance gate size 4000x2500mm high coplete with moving rail,motor and iron mongeries	1	no	4,500,000.00	4,500,000.00
F	Electrical for fence work wire,conduit,light and other accessories	1	item	6,500,000.00	6,500,000.00
	Supply and fix Riser wire	1	item	3,800,000.00	3,800,000.00
	<b>GURD HUT 2NO</b>				
G	Supply matrial and construct guard house 2600x2000x21700 high including foundation wall 230mm thick, 100mm concrete slab, 150mm superstructure wall, Plastering,Painting Roofing, Aluminium window 2no size (1100x1200 and 800x1800 high) gypsum ceiling and brandering,2no doors on 1Wc squating type	2	no	5,300,000.00	10,600,000.00
	<b>Base for Water Tanks size 16000x2000mm</b>				
G	Excavation of watar tank wall	6	m <sup>3</sup>	60,000.00	360,000.00
H	230mm thick wall for water base tank	18	m <sup>2</sup>	40,000.00	720,000.00
I	Imported earth filling well rammed and consolidated to make up levels under floor 150 mm average thick	20	m <sup>3</sup>	30,000	600,000.00
J	<b>Plain concrete class 15</b> 100mm thick concrete bed	32	m <sup>2</sup>	25,000.00	800,000.00
K	Plastering to base for water tank	18	m <sup>2</sup>	12,000.00	216,000.00
L	Prepare and apply two coats of black bituminous paint on rendered or concrete surfaces, externally	18	m <sup>2</sup>	8,000.00	144,000.00
	<b>Supply and install Water TANKS including all accessories</b>				
M	SIM TANK 7000LTRS	1	no	1,500,000.00	1,500,000.00
N	SIM TANK 30000 LTS	8	no	600,000.00	4,800,000.00
O	SIM TANK 2000LTS	8	no	450,000.00	3,600,000.00
	<b>CARRIED FORWAD</b>				<b>276,873,950.00</b>

**BILL NO.4 EXTERNAL WORKS**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>BROUGHT FORWARD</b>				276,873,950.00
A	External pipe for clean water				
B	PPR pipe 32mm dia	68	pcs	32,400.00	2,203,200.00
C	PPR Elbow 32mm dia	30	pcs	2,000.00	60,000.00
D	PPR Socket 32 mm dia	40	pcs	1,120.00	44,800.00
	<b>Base for Generater size 6000x2000mm</b>				
E	Excavation of watar tank wall	5	m³	60,000.00	300,000.00
F	230mm thick wall for water base tank	10	m²	40,000.00	400,000.00
G	Imported earth filling a.b.d	7	m³	30,000	210,000.00
	<b>Plain concrete class 15</b>				
H	100mm thick concrete bed	12	m²	25,000.00	300,000.00
I	Base for generator size 2000x4000x200mm thick	2	m³	380,000	760,000.00
J	Reinforcement for the base 12mm dia	240	kg	4,000	960,000.00
K	Plastering to base for generator	10	m²	12,000.00	120,000.00
L	Prepare and apply two coats of black bituminous a.b.d	10	m²	8,000.00	80,000.00
M	Supply and fix generator shade comprising of square pipe 40mmx40mmx4mm, 150 C-C, 2700mm avrage height for wall and roof struture and 28G IT5 roof covering	1	no	5,500,000.00	5,500,000.00
<b>BILL NR 4: EXTERNAL WORKS CARRIED TO GENERAL SUMMARY</b>				<b>TSH</b>	<b>287,811,950.00</b>



ITEM	DESCRIPTION	AMOUNT
<b>GENERAL SUMMARY</b>		
A	BILL NR 1 - PRELIMINARIES	25,000,000.00
B	BILL NR 2 - MEASURED WORKS FOR 8 HOUSE	3,162,490,194.28
C	BILL NR 3 - PRIME COST AND PROVISIONAL SUM FOR 8 HOUSE	764,573,048.00
D	BILL NR 4 - EXTERNAL WORKS	287,811,950.00
E	SUB TOTAL 1	4,239,875,192.28
<b>INSURANCE CLAUSES</b>		
G	Clause 23(1)d Contractor to maintain insurance against injury to persons under Clause 23(1)d of the Conditions of Contract	1,000,000.00
H	Clause 23(1)c The Contractor to maintain insurance against injury to property as Clause 23(1)c of the Conditions of Contract	1,000,000.00
I	Clause 23(1)a The Contractor to maintain insurance of the works as Clause 23(1)a of the Condition of Contract	1,000,000.00
J	BOND Clause 37 Contractor to secure a Surety Bond for value of 10% of the Contract Sum as per Clause 37 of the Condition of Contract	10,000,000.00
K	SUB TOTAL 1	4,252,875,192.28
L	ADD 18% VAT	765,917,634.61
M	CONTRACT SUM CARRIED TO FORM OF TENDER	5,018,392,726.89



GS/1