



**REPUBLIC OF KENYA**

**MINISTRY OF TRANSPORT, INFRASTRUCTURE, PUBLIC WORKS,**

**HOUSING AND URBAN DEVELOPMENT**

**STATE DEPARTMENT OF PUBLIC WORKS**

# **BILL OF QUANTITIES**

## **FOR**

**PROPOSED CONSTRUCTION OF MATSANGONI DIVISIONAL**

**HEAD QUARTERS**

**NG-KILIFI NORTH CDF –PHASE ONE**

TENDER NO.....

**ESTIMATES**

REGIONAL QUANTITY SURVEYOR  
MOMBASA REGION  
P.O. BOX 90350  
MOMBASA

REGIONAL WORKS OFFICER  
MOMBASA REGION  
P.O. BOX 90350  
MOMBASA

**NOVEMBER, 2020**

**MOTIH & UD**  
STATE DEPT FOR PUBLIC WORKS  
Regional Works Officer  
Mombasa

**BILLS OF QUANTITIES FOR MATSANGONI DIVISIONAL HEADQUARTERS**

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	<b><u>ELEMENT NO. 1: -</u></b>				
	<b><u>SUBSTRUCTURE (ALL PROVISIONAL)</u></b>				
	<b><u>Excavation and Earthworks: -</u></b>				
A	Clear site of trees and shrubs and grab roots	262	Sm	100	26,200
B	Excavate oversite average 200mm deep	262	Sm	50	13,100
C	Excavate trench for strip foundation not exceeding 1.5m deep	108	Cm	250	27,000
D	Ditto for column bases	7	Cm	250	1,750
E	Return fill and ram	88	Cm	100	8,800
F	Cart away surplus excavated material	27	Cm	150	4,050
G	Allow for struting and plunking	1	item	5,000	5,000
H	Allow for excavation free from water	1	item	5,000	5,000
	<b><u>Hardcore: -</u></b>				
I	300mm thick approved Hardcore	215	Sm	350	75,250
J	50mm thick murrum blinding	237	Sm	75	17,775
K	Treat Hardcore surface with approved insecticide	215	Sm	100	21,500
	<b><u>Concrete works: -</u></b>				
L	Plain concrete (1:4:8) in 50mm blinding under strip foundation	55	Sm	400	22,000
M	Ditto under column bases	7	Sm	400	2,800
	<b><u>Vibrated reinforced concrete (1:2:4) in: -</u></b>				
N	Strip foundation	12	Cm	13,000	156,000
O	column bases	3	Cm	13,000	39,000
P	columns	2	Cm	13,000	26,000
Q	Concrete walling	3	Cm	13,000	39,000
R	100mm surface bed	215	Sm	1,300	279,500
	<b>Total carried to collection</b>				<b>769,725</b>

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	<b>SWAN FORMWORK</b>				
A	Verticle sides of column	9	sm	600	5,400
B	<b>SIDES OF CONCRETE WALLING</b>	30	sm	600	18,000
C	Formwork to edges of surface bed 75-150mm high	75	Lm	300	22,500
	<b><u>High yield reinforcement bars: -</u></b>				
D	8mm diameter bars	125	Kg	140	17,500
E	10mm ditto	316	Kg	140	44,240
F	12mm ditto	55	Kg	140	7,700
G	BRC mesh typeA-142 <b><u>Sub-wall: -</u></b>	215	Sm	400	86,000
H	200mm coral block walling in cement sand (1:3) mortar <b><u>Damp proof course: -</u></b>	108	Sm	1,300	140,400
I	200mm wide Hessian based bituminous felt DPC <b><u>Damp proof membrane: -</u></b>	86	Lm	200	17,200
J	500 gauge polythene sheet DPM <b><u>Plinth: -</u></b>	215	Sm	100	21,500
K	15mm thick cement sand (1:3) plaster on plinth walls	35	Sm	350	12,250
L	Prepare and apply three coats Bitumastic paint on plinth wal	35	Sm	200	7,000
M	<u>Paving slabs around the building</u> 600x600x50mm precast concrete paving slabs including 250mm marram and 50mm sand bed	68	Sm	1,200	81,600
	<b>COLLECTION</b>				481,290
	<b>Brought forward from page cl/1</b>				769,725
	<b>Brought forward from page above</b>				481,290
	<b>CARRIED TO SUMMARY</b>				1,251,015

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	<b><u>ELEMENT NO. 2: - REINFORCED CONCRETE SUPERSTRUCTURE</u></b>				
A	Vibrated reinforced concrete(1:2:4) in : BEAMS	7	CM	13,000	91,000
B	COLUMNS	1	CM	13,000	13,000
C	150 mm suspended slab	11	SM	1,300	14,300
	<b>SWAN FORMWORK TO:</b>				
D	Sides and soffits of beams	80	SM	600	48,000
E	VERTICLE SIDES OF COLUMNS	19	SM	600	11,400
F	soffits of suspended slab	11	SM	600	6,600
G	Edges of suspended slab 75-150 mm high	60	LM	300	18,000
	<b><u>High yield reinforcement bars: -</u></b>				
H	8mm diameter bars	325	Kg	140	45,500
I	10mm ditto	404	Kg	140	56,560
J	12mm ditto	715	Kg	140	100,100
	<b>CARRIED TO SUMMARY</b>				<b>404,460</b>

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	<b><u>ELEMENT NO. 3: -</u></b> <b>WALLING</b>				
A	200mm coral block walling in cement sand (1:3) mortar	410	Sm	1,300	533,000
B	150mm DITTO	15	Sm	1,300	19,500
	<b>CARRIED TO TO COLLECTION</b>				<b>552,500</b>

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	<b><u>ELEMENT NO. 4: -</u></b>				
	<b><u>ROOFING: -</u></b>				
	<b><u>Sawn treated cypress: -</u></b>				
A	100 x 50mm rafters	225	Lm	450	101,250
B	150 x 50mm tie beams	165	Lm	550	90,750
C	100 x 50mm ties and struts	346	Lm	450	155,700
D	75 x 50mm purlins	292	Lm	350	102,200
E	100x 50mm wall plate bolted to ring beam at 1.5m centres	34	Lm	450	15,300
F	200 x 25mm wrot cypress fascia and Barge Board	106	Lm	450	47,700
	<b><u>Roof coverings: -</u></b>				
G	30 gauge pre-painted corrugated sheets nailed to purlins	321	Sm	800	256,800
H	Matching ridge caps	31	Lm	450	13,950
	<b><u>Painting: -</u></b>				
I	Prepare and apply undercoat and two coats first quality gloss oil paint of fascia board 200 - 300mm girth	106	Lm	120	12,720
	<b>Carried to summary</b>				<b>796,370</b>

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	<b><u>ELEMENT NO. 5: -</u></b>				
	<b><u>DOORS: -</u></b>				
	<b><u>Wrot Hardwood: -</u></b>				
A	150 x 50mm rebated door frame	98	Lm	900	88,200
B	45 x 20mm architrave with two labours	98	Lm	250	24,500
C	25mm quadrant moulds	98	Lm	150	14,700
D	50MM thick panel door shutter door size 900x2100mm	9	No	14,000	126,000
E	flash door size 900x2100mm mahogany	5	No	8,000	40,000
F	Grill door	1	No	11,000	11,000
	<b><u>Iron mongery as "UNION" or equal and approved with matching screws: -</u></b>				
G	Two lever mortice locks	14	No	3,500	49,000
H	50MM LONG TOWER BOLTS	5	No	500	2,500
I	150 MM LONG DITTO	9	No	500	4,500
	<b><u>Painting: -</u></b>				
	<b><u>Prepare and apply undercoat and two coats first quality gloss oil paint on: -</u></b>				
J	General surfaces of timber	70	Sm	200	14,000
K	Surfaces of timber 200 - 300mm girth	98	Lm	120	11,760
L	Surfaces not exceeding 100mm girth	196	Lm	80	15,680
	<b>TOTAL OF DOORS, CARRIED TO SUMMARY</b>				<b>401,840</b>

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	<b>ELEMENT NO. 6: -</b> <b>WINDOWS: -</b>				
	<u>Standard mild steel casement complete with hinges stays fasteners, permanent vents with mosquito gauze assembled and fixed to opening including cutting and pinning plugs to concrete or block work surround and bedding frames in cement and sand mortor (1:1) :</u>				
A	Window size 1500x1200mm	7	NO	14,000	98,000
B	Window size 900x1200 mm	2	NO	9,000	18,000
	window size 600x600mm	5	NO	4,000	20,000
C	5x150mm clear glassl and glazing with metal putty in panes 0.1-0.5m2	20	SM	2,200	44,000
D	ditto obscure glass	3	SM	2,200	6,600
	<b>Painting: -</b>				
E	Prepare and apply pime and two coats first quality gloss oil paint on steelsurfaces 100-200mm girth	23	sm	200	4,600
<b>TOTAL OF WINDOWS, CARRIED TO SUMMARY</b>					<b>191,200</b>



Item No	Description	Qty	Unit	Rate	Total (Kshs)
	<b><u>ELEMENT NO. 8: -</u></b>				
	<b><u>FINISHES: -</u></b>				
	<b><u>Wall finishes: -</u></b>				
A	15mm thick cement sand (1:3) plaster on walls internally	645	Sm	350	225,750
B	Ditto rendering walls beams and columns externally	200	Sm	350	70,000
C	Wall tiles	40	sm	1,200	48,000
	<b><u>Floor finishes: -</u></b>				
D	32mm thick cement sand (1:3) steel float floor screed	215	Sm	380	81,700
E	100 x 25mm ditto skirting	215	Lm	250	53,750
F	floor tiles	24	sm	1,200	28,800
	<b>CELLING FINISHES</b>				
G	15MM thick cement sand (1:3) plaster on ceiling	11	Sm	360	3,960
H	50x50mm sawn treated cypress brandering	370	lm	360	133,200
I	75x50mm DITTO	70	lm	235	16,450
J	9MM thick chip board ceilling	226	sm	800	180,800
K	Extra over ceilling boards for trap door size 600x600mm	1	no	1,000	1,000
L	75x25MM wrot cypress cornices	226	lm	300	67,800
	<b><u>Painting: -</u></b>				
M	Prepare and apply undercoat and two coats first quality plastic emulsion paint on walls internally	645	Sm	200	129,000
N	Ditto rendered walls externally	200	Sm	200	40,000
O	Ditto to ceilling boards	226	Sm	200	45,200
P	Ditto to soffit of ceilling	11			
Q	<b>NOTICE BOARD</b>		Sm	400	
	<b>SOFT BOARD</b>	18			
S	75x20MM wrot hardwood beading	40	lm	250	10,000
	<b>CARRIED TO SUMMARY</b>				<b>1,135,410</b>

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	<b><u>SUMMARY: -</u></b>				
1	SUBSTRUCTURE FROM PAGE CL / 2				1,251,015
2	FRAME FROM PAGE CL / 3				404,060
3	WALING FROM PAGE CL / 4				552,500
4	ROOFING FROM PAGE CL / 5				796,370
5	DOORS FROM PAGE CL / 6				401,840
6	WINDOWS FROM PAGE CL / 7				191,200
7	FINISHES FROM PAGE CL / 8				1,135,410
	<b>TOTAL OF BUILDER'S WORK, CARRIED TO MAIN SUMMARY</b>				<b>4,732,395</b>

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	<b><u>PRIME COST AND PROVISIONAL SUMS: -</u></b>				
	<b><u>PRIME SUMS: -</u></b>				
A	Provide a provisional sum of Kenya Shillings Thirty five Thousand for ngcdf signage and the officially opening plaque				35,000
B	Provide a provisional sum of kenya shillings one hundred and fifty thousand for Electricity works				120,000
C	Provide a provisional sum of Kenya shillings one hundred and twenty Thousand for PLUMBING AND DRAINAGE				100,000
D	Provide a provisional sum of Kenya Shillings two hundred and fiftyThousand for a soak pit				150,000
E	Provide a provisional sum of Kenya Shillings two hundred and fiftyThousand for a septik tank				200,000
	<b><u>PROVISIONAL SUMS: -</u></b>				
F	Provide a provisional sum of Kenya Shillings two hundred twenty thousand for Project Management				200,000
	<b>TOTAL OF PRIME COST AND PROVISIONAL SUMS CARRIED TO GRAND SUMMARY</b>				<b>805,000</b>

Item No	Description	OR TENDER USE ONLY	FOOR OFFICIAL USE OF (Kshs)
<b><u>MAIN SUMMARY: -</u></b>			
A	Preliminaries		
B	Builder's work from page CL / 8	4,732,395	
C	Prime cost and provinsional sums from page PS / 1	805,000.00	
	<b>Sub total</b>	<b>5,537,395</b>	
	Allow 14% VAT	775,235	
<b>TOTAL CARRIED TO FORM OF TENDER</b>		<b>6,312,630</b>	

AMOUNT IN WORDS:

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CONTRACTOR'S NAME: .....

ADDRESS: .....

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

*Quaheng*  
10/11/2020

NAME OF WITNESS: .....

ADDRESS: .....

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

