



REPUBLIC OF KENYA

PROPOSED RENOVATION WORKS AT SPEAKER'S  
RESIDENTIAL HOUSE MILIMANI

**UNPRICED BILLS OF QUANTITIES**

**PROJECT MANAGER**

REGIONAL WORKS OFFICER

STATE DEPARTMENT FOR PUBLIC WORKS

P.O. BOX 660 - 20100,

NAKURU.

**ARCHITECT**

REGIONAL ARCHITECT

STATE DEPARTMENT FOR PUBLIC WORKS

P.O. BOX 660 - 20100,

NAKURU.

**QUANTITY SURVEYOR**

REGIONAL QUANTITY SURVEYOR

STATE DEPARTMENT FOR PUBLIC WORKS

P.O. BOX 660 - 20100,

NAKURU.

**ELECTRICAL ENGINEER**

REGIONAL ELECTRICAL ENGINEER

STATE DEPARTMENT FOR PUBLIC WORKS

P.O. BOX 660 - 20100,

NAKURU.

**STRUCTURAL ENGINEER**

REGIONAL ENGINEER (STRUCTURAL)

STATE DEPARTMENT FOR PUBLIC WORKS STATE DEPARTMENT FOR PUBLIC WORKS P.O.

BOX 660 - 20100,

NAKURU.

**MECHANICAL ENGINEER (B.S)**

REGIONAL ENGINEER – MECHANICAL (BS)

STATE DEPARTMENT FOR PUBLIC WORKS STATE DEPARTMENT FOR PUBLIC WORKS P.O.

P.O. BOX 660 - 20100,

NAKURU.

**OCTOBER, 2022**

PROPOSED RENOVATION WORKS AT SPEAKER'S RESIDENTIAL HOUSE MILIMANI

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	<u>PRELIMINARIES</u> General Preliminaries ( scaffolding, Insurance, Protection of works etc.)	ITEM			
B	<u>WALL SURFACE TREATMENTS</u> Scrap off the loose paint from the surface as directed on site and treat the surface by applying alkaline resistant paint before final coat.	SM	100		
	<u>PAINTING RENDER</u> Prepare and apply one undercoat; finishing coat of textured special effect paint to crown paints or equal and approved				
	Steel trowelled plastered surfaces				
C	Walls; over 300 mm wide;	SM	380		
D	Pillars ; over 300 mm wide;	SM	15		
E	Beams ; over 300 mm wide;	SM	34		
	<u>PAINTING/ CLEAR FINISHING</u>				
	<u>PAINTING INTERNAL WALLS</u> Prepare plastered surface; apply two coats to other walls and three coats to bedrooms walls premium quality silk vinyl paint to crown paints or equal and approved;				
F	Over 300 mm girth; to smooth plastered surfaces; internally.	SM	360		
G	Over 300mm wide; smooth plastered surfaces; sides of staircase	SM	32		
	<b>TOTAL CARRIED FORWARD</b>				-

PROPOSED RENOVATION WORKS AT SPEAKER'S RESIDENTIAL HOUSE MILIMANI

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BROUGHT FORWARD				-
	PAINTING CEILING				
	Prepare plastered and Gypsum surface; apply two coats premium quality cover matt paint to crown paints or equal and approved;				
A	Plastered ceiling surfaces and Gypsum surfaces; over 300mm wide;	SM	314		
	PAINTING METAL				
	Prepare and apply two coats oil paint full gloss finish; to crown paint or equal and approved;				
B	Window surfaces; generally over 300 mm wide both sides measured;	SM	140		
C	Door surfaces; generally over 300mmm wide both sides measured;	SM	80		
D	Guardrails surfaces; generally over 300mm wide;	SM	49		
	PAINTING WOOD				
	Prepare surfaces: apply three coats polyurethane varnish on wood: to surfaces:				
	Varnishing wood;				
E	Surfaces over 100 but not exceeding 200mm girth; window board	LM	35		
F	Panel and flush doors surfaces; over 300mm wide;	SM	40		
	TOTAL FOR PAINT WORKS CARRIED TO SUMMARY				-

PROPOSED RENOVATION WORKS AT SPEAKER'S RESIDENTIAL HOUSE MILIMANI

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ROOF WORKS AND TILING TO STAIRCASE				
A	Demolish existing cabro and cart away debris as directed on site	SM	315		
B	Remove existing APP waterproofing and cart away debris as directed on site	SM	315		
C	Hacking existing floor in preparation to receive new floor, cart away the debris as directed on site	SM	315		
D	M10 SAND CEMENT /CONCRETE SCREEDS /FLOORING CEMENT AND SAND 15 mm thick backing screed; wood floated to receive waterproofing; (m/s) to concrete or blockwork base generally; Over 300 mm wide;	SM	315		
	Kenseal waterproofing or equal and approved waterproofing agent in three coats laid in accordance with the manufacturer's specifications; including Kenseal primer and fibre glass netting; with and including a ten years guarantee.				
E	Roofing to falls and cross falls not exceeding 15 degrees from horizontal; To flat roof; over 300 mm wide;	SM	315		
	<b>Downpipe</b>				
F	100 mm diameter galvanised iron downpipe gauge 24 fixed to wall with and including holder butts at 1000mm centres including wrot timber cladding	LM	56		
	<b><u>Prepare and apply 3 coats gloss oil paint to:</u></b>				
G	Surfaces of down pipes	SM	18		
H	Surfaces of timber girth over 300mm	SM	25		
	<b>TOTAL CARRIED FORWARD</b>				

PROPOSED RENOVATION WORKS AT SPEAKER'S RESIDENTIAL HOUSE MILIMANI

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BROUGHT FORWARD				-
A	Polished white cement based terrazzo 32mm thick cement sand screed (1:4) including 20x4mm thick plastic terrazzo strips to approved pattern to receive terrazzo;	SM	315		
B	10mm terrazzo laid on screed (m/s) including polishing to smooth .	SM	315		
	TILING				
	Demolitions				
C	Demolish existig tiles and cart way as directed by the Project manager	SM	42		
	<u>Ceramic floor tiles as manufactured by Ms Saj Ceramics or other equal and approved</u>				
D	400 x 400 x 10mm thick non-slip ceramic floor tiles to regular pattern	SM	42		
	TOTAL FOR ROOF WORKS AND TILING TO STAIRS CARRIED TO SUMMARY				

PROPOSED RENOVATION WORKS AT SPEAKER'S RESIDENTIAL HOUSE MILIMANI

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p>STEEL DOOR</p> <p>Consisting of 100 x 50 x 4mm rectangular hollow section frame and intermediate rail filled in with 25 x 25 x 2mm rectangular hollow section verticals spaced at 150mm with and including 3No. Purpose made hinges cut and pinned to masonry stonework, eye for padlock and 300mm drop complete with socket cast into concrete. all to architect's detail</p>				
	3000 x 2200mm high	NO	1		
	Repair works				
	Allow repair to existing plumbing installations	ITEM			
	Allow repair to existing electrical installations	ITEM			
					-

PROPOSED RENOVATION WORKS AT SPEAKER'S RESIDENTIAL HOUSE MILIMANI

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUMMARY				
	PAINT WORKS			PG 2	-
	ROOF WORKS AND TILING TO STAIRS			PG 4	-
	DOOR AND REPAIR WORKS			PG 5	-
	TOTAL AMOUNT				-

PROPOSED RENOVATION WORKS AT SPEAKER'S RESIDENTIAL HOUSE MILIMANI

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>Water Tanks</b> Supply, deliver and assemble a the following water tanks :Plastic Jumbo tanks				
A	20,000 litre ground level water tank	NO	2		
B	100mm diameter overflow	No	1		
C	50mm diameter outlet	No	2		
D	100mm diameter outlet	No	2		
E	40mm diameter inlet	No	1		
F	50mm diameter inlet	No	1		
G	100mm diameter inlet	No	1		
H	100mm diameter washout with gate valve	No	2		
I	Float switch regulator	No	1		
J	Water level indicator	No	1		
K	50mm diameter high pressure ball valve	No	2		
L	50mm diameter pipework PPR water supply pipe from council line to underground tank	Lm	70		
M	50mm diameter pipework PPR water supply pipe from pump to roof tanks	Lm	40		
N	50mm diameter bends/elbow	No	4		
O	50mm diameter approved medium pressure screw down full way non-rising stem wedge gate valve to BS 5154 PN 20 for series B rating, with wheel and head joints to tubing and complete with round male threaded transition fittings and associated unions.	No	2		
P	50mm diameter plug	No	2		
	Total Carried Forward				-
	Total Brought Forward				-



PROPOSED RENOVATION WORKS AT SPEAKER'S RESIDENTIAL HOUSE MILIMANI

A	<p>Water Meter Chamber</p> <p>Mains Meter chamber size 450x with 100mm concrete (1: 3: 6) base 50mm block450x600mm deep sides rendered all round in cement and sand (1:4) and with approved hinged and flanged cast iron cover and frame including all necessary excavation, disposal and formwork.</p>	No.	1		-
B	<p>Booster Pumpset</p> <p>Set of automatic electrically driven twin water pumps. One duty and the other one standby with automatic changeover, capable of delivering 5 metres per hour against a head of 30 meters. The pumpset shall be complete with 60 litres pressure vessel (as Dayliff pressure set or equal and approved) and all accessories required for proper and satisfactory operation. It includes pressure switches, time delay switch, a switch to protect against dry run, timer, gate valves. non-return valves and control panel. The pump to be as GRUNDFOS or approved equivalent. Pump to be installed on mild steel platform.</p>	Set	1		
	TOTAL FOR WATERTANK CARRIED TO SUMMARY				-

PROPOSED RENOVATION WORKS AT SPEAKER'S RESIDENTIAL HOUSE MILIMANI

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	<p>Solar Panels and Hot Water Storage Cylinder</p> <p>Solar water heating system comprising of 1No.300litres capacity hot water cylinder with 3KW electric booster element with solar panels of double layer concentric borosilicate glass vacuum tube configuration as solaris or equal and approved in array set of 3no.solar units capable of heating 300 litres of water per day or 36 vacuum tubes in number whichever is higher, safety valves and all other necessary interconnectors. The insulated cylinder shall be treated against corrosion by ceramic lining and shall be fitted with an anode. The system shall be a closed circuit type of the solar heating system</p>	Item	4		
B	<p>Supporting Frames</p> <p>Allow for support 3mm hollow mild steel tubes and angle line mild steel plates fixed on roof to support 2No. Solar panels to engineer's to approval.</p>	No.	4		
C	<p>Automatic Air Eliminator</p> <p>Air relief valve as manufactured by "Spirax Sarco" model No. AES 50 Air Eliminators for use on hot water services.</p>	No.	4		
D	<p>Thermomixing Valve</p> <p>Solar Thermomixing Valve</p>	No.	4		
E	<p>Pressure gauge</p> <p>Pressure gauge as manufactured by Honeywell to be fitted as instructed by the Engineer</p>	No.	1		
	Total Carried Forward				
	Total Brought Forward				-

PROPOSED RENOVATION WORKS AT SPEAKER'S RESIDENTIAL HOUSE MILIMANI

A	<p>Gate valves 25mm diameter screwed- in bonnet, full way non- rising stem, solid wedge disk, bronze gate valve to BS 5154 PN 20 for series 'B' ratings with wheel head and transition fitting for jointing to GMS pipework.</p>	no	4		
B	<p>Non return valves 25mm diameter non return valve</p>	no	4		
C	<p>Unions 25mm diameter pipe union</p>	no	6		
D	<p>Solar Header Tank 920 litres capacity rectangular water storage tank in roof complete with cover and having screwed connections for inlet (25mm), outlet (32mm), overflow (20mm) and 40mm drain as ROTO or equal and approved equivalent.</p>	no	2		
E	<p>Ball Valve 25mm diameter medium pressure ball valve as "PORTSMOUTH" type or approved equivalent with brass stem and plastic float, screwed to threaded socket of tank including union</p>	no	2		
F	<p>Wiring Allow for all wiring to booster heater from local isolator supplied by others within two meter to the solar heating systems to the switch in the kitchen.</p>	item	1		
G	<p>Water Connection Allow for connections to rising mains for all solar heating systems and to the hot water delivery line.</p>	item	1		
H	<p>Testing and commisioning Allow for testing and commissioning for all solar heating systems to the satisfaction of the engineer.</p>	item	1		
	<p>Total for solar water heating carried to summary</p>				

**PRIME COST SUMS**

E

PROPOSED RENOVATION WORKS AT SPEAKER'S RESIDENTIAL HOUSE MILIMANI

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<p><b><u>PROVISIONAL SUMS</u></b></p> <p>Allow a provisional sum of Ksh. Three Hundred Thousand (Kshs <b>300,000.00</b>) only for Contingencies to be spent in whole or in part as directed by the project Manager</p>				
	<b>TOTAL PC AND PROVISIONAL SUMS CARRIED TO GRAND</b>				-

## **GRAND SUMMARY**

PROPOSED RENOVATION WORKS AT SPEAKER'S RESIDENTIAL HOUSE MILIMANI

ITEM	DESCRIPTION	PAGE	AMOUNT
1	BUILDER'S WORK	From Page	-
2	WATER TANK	From Page	-
3	SOLAR WATER HEATING	From Page	-
4	PC AND PROVISIONAL SUMS	From Page	-
5	PROJECT MANAGEMENT EXPENSES  Allow a provisional sum of Ksh Three hundred thousand (300,000.00) only for Project Management Expenses	From Page	
	<b>TOTAL</b>		-
AMOUNT IN WORDS..... ..... TENDERER'S SIGNATURE AND STAMP ..... ADDRESS ..... DATE ..... WITNESS NAME AND SIGNATURE ..... ADDRESS ..... DATE .....			