



**MINISTRY OF TRANSPORT, INFRASTRUCTURE, HOUSING
AND URBAN DEVELOPMENT
(STATE DEPARTMENT OF PUBLIC WORKS)**

**PROPOSED CONSTRUCTION OF BEDSITTERS AT THINDIGUA
POLICE STATION**

BILL OF QUANTITIES

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JULY 2021

PROPOSED CONSTRUCTION OF BEDSITTERS AT THINDIGUA POLICE STATION

Item	Description	Unit	Qty	Rate	Amount
	<u>SUBSTRUCTURES</u>				
	<u>(All provisional)</u>				
	<u>Excavations and Earthworks</u>				
	<u>No allowance is made in excavations for working space. The contractor to include in his rates.</u>				
A	Clear site of all grass and small plants not exceeding 300mm girth and cart away or burn arisings.	SM	247		
B	Excavate oversite average 150mm deep to remove vegetable soil, load, wheel and deposit 100 meters away and later spread and level onn site where directed	SM	240		
C	Extra over excavation for all class of rock	CM	40		
D	Excavate for foundation trench.s starting from striped level n.e 1.5m dp from ground level.	CM	56		
E	Load, wheel and cart away from site surplus excavated material and deposit in approved dumping area.	CM	95		
F	Return fill and well ram selected excavated material around foundations.	CM	132		
	<u>Fillings</u>				
G	50mm fine material for blinding (murrum/quarry dust) to surface of hardcore well rolled and levelled	SM	182		
H	300mm thick approved hardcore filling spread, lvelled, well rammed amd consolidated in 150mm thick layers to receive concrete surface bed	CM	47		
J	Anti-termite treatment as "Premise 200sc" distributed by high chemicals essentials or other equal and approved applied to surface of blinded hardcore and surrounding areas strictly in accodance with manufacturer's instructions (subject to a TEN YEAR GUARANTEE to the satisfaction of the Architect	SM	182		
K	1000 gauge polythenwe D.P.M underlay sheeting to bottom of slab with end side laps of 150mm.	SM	182		
L	Allow for keeping excavations free from all water by draining pumping or otherwise	Item			
M	Allow for maintaining and upholding sides of excavations as necessary clearing awy any debris, rubbish etc.	Item			
	<i>Carried to collection for Substructures</i>				

PROPOSED CONSTRUCTION OF BEDSITTERS AT THINDIGUA POLICE STATION

Item	Description	Unit	Qty	Rate	Amount
	<u>SUBSTRUCTURES CONT'D.....</u>				
	<u>50 mm thick plain concrete mix 1:4:8 blinding to:</u>				
A	Foundation strip.	SM	64		
	<u>Vibrated Reinforced Concrete mix (1:1.5:3) class 25/20mm in:</u>				
B	Foundation strip.	CM	18		
C	150mm Thick floor slab.	SM	182		
	<u>Reinforcement</u>				
	<u>High tensile steel reinforcement to B.S 4449 and B.S 4466 with and including all necessary tying wires and spacer blocks</u>				
D	8mm diameter bars	KGS	130		
E	10mm diameter bars	KGS	230		
F	Steel Fabric Mesh reinforcement ref A142 weighing 2.22Kg/M2 and to BS 4483 and with 150 mm side laps or equal and approved reinforcement in concrete slab including all necessary tying and support (No allowance for laps)	SM	182		
	<u>Sawn Formwork to: -</u>				
G	Edges of slab, 75-150mm girth.	LM	70		
	<u>Approved load bearing rough dressed natural stone walling in cement and sand mortar 1:3</u>				
H	200mm thick walling	SM	127		
	<u>Bituminous Damp Proof Course</u>				
J	200mmn thick bitumnous hessian felt as D.P.C bedded in (1;3) c/s mortar lapped at 100mm at joints	LM	102		
	<u>Plinths</u>				
K	12mm Thick cement/sand (1:4) render to plinths	SM	42		
L	Approved bituminous paint to rendered surfaces	SM	42		
	<i>Carried to collection for Substructures</i>				
	<u>COLLECTION</u>				
	Brought forward from page K/1				
	Brought forward from above				
	<i>Total for Substructures</i>				

PROPOSED CONSTRUCTION OF BEDSITTERS AT THINDIGUA POLICE STATION

Item	Description	Unit	Qty	Rate	Amount
	<u>ELEMENT NO.2</u>				
	<u>REINFORCED CONCRETE SUPERSTRUCTURE</u>				
	<u>In situ concrete grade 25/20 including vibrating around reinforcement.</u>				
A	Beams	CM	10		
	<u>Reinforcement</u>				
	<u>High tensile steel reinforcement to B.S 4449 and B.S 4466 with and including all necessary tying wires and spacer blocks</u>				
B	8mm diameter bars	KGS	164		
C	10mm diameter bars	KGS	282		
	<u>Sawn Formwork to: -</u>				
D	Sides and soffits of beams	SM	125		
	<u>Total for R.C. Superstructures carries to Summary</u>				

PROPOSED CONSTRUCTION OF BEDSITTERS AT THINDIGUA POLICE STATION

Item	Description	Unit	Qty	Rate	Amount
	<u>ELEMENT NO. 3</u>				
	<u>WALLING</u>				
	<u>Masonry walls bedde and jointed in cement and sand (1:4) mortar in;</u>				
A	200mm thick wall reinforced with 32x2mm hoop iron every alternate course	SM	70		
B	Ditto 150mm thick	SM	11		
	<i>Total for Walling carried to Summary</i>				

PROPOSED CONSTRUCTION OF BEDSITTERS AT THINDIGUA POLICE STATION

Item	Description	Unit	Qty	Rate	Amount
	<u>ELEMENT NO. 4</u>				
	<u>ROOFING</u>				
	<u>Wall-plate in first grade sawn celcured cypress</u>				
A	100x50mm wall plate on boom with 12mm cement/ sand (1:3) mortar bed and hoop iron straps (m/s)	LM	57		
B	Make mortice in concrete beam for anchoring hoop iron straps.	NO	95		
C	20x2mm thick hoop iron strapping 800mm long once folded, cast into beams and other ends run over and lapped over timber with a adequate nailing	NO	95		
	<u>Covering</u>				
D	IT5 Profiled roofing sheets and fixed on timber purlins (m/s) with adequate end and side laps	SM	213		
	<u>Trusses</u>				
	<u>The following double pitched sawn cypress celcured graded timber.</u>				
F	100 x 50mm tie beam	LM	226		
G	100 x 50mm struts and ties	LM	360		
H	75 x 50mm purlins	LM	256		
J	100 x 50mm rafter	LM	360		
	<u>Wrot 1st grade cypress in;</u>				
K	200 x 25mm fascia board with one beveled edge and fixed to ends of rafters and purlins	LM	29		
	<u>TONGUE AND GROOVE BOARDING</u>				
L	75 x 25mm sawn celcured cypress bearers and runners plugged	LM	29		
M	100 x 25mm Thick wrot cypress tongue and groove boarding nailed to bearers (m.s) to eave and verges	SM	35		
	<u>Decoration and painting</u>				
	<u>Knot, prime, stop, destain, prepare and apply one undercoat and two finishing gloss oil paint to;</u>				
N	Surfaces of timber 200-300mm girth	LM	29		
	<u>Total for Roofing carried to Summary</u>				

PROPOSED CONSTRUCTION OF BEDSITTERS AT THINDIGUA POLICE STATION

Item	Description	Unit	Qty	Rate	Amount
	<u>ELEMENT NO. 5</u>				
	<u>RAINWATER GOODS</u>				
A	150x150mm Plastic rain water downpipe; holderbats at 800mm (maximum) centres on wall .	LM	12		
B	Ditto gutter; holderbats at 1200mm (maximum) centres on fascia board	LM	29		
C	Extra over ditto for 800 mm swan neck offset	NO	4		
D	Ditto for shoe	NO	4		
	<i>Total for Rain Water Goods carried to Summary</i>				

PROPOSED CONSTRUCTION OF BEDSITTERS AT THINDIGUA POLICE STATION

Item	Description	Unit	Qty	Rate	Amount
	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	<i><u>Steel casement window; purpose made standard metal casement sections complete with Zed sections; permanent ventilators comprising 'T' bar gauze and metal hood; openable casements; coupling mullions; approved ironmongery; as per schedule. Pattern as shown in the Appendix to Architects approval</u></i>				
A	Window size 1800 x 2000mm high	NO	6		
B	Window size 600 x 900mm high	NO	6		
	<u>Burglar Proofing</u>				
C	Mild steel burglar proofing grille in heavy gauge sections bent and welded into an approved pattern including priming, fixing and finishing to Architect's detail (provisional)	SM	25		
	<i><u>6mm Thick heat glass and glazing to steel casement window with and including linseed putty; in</u></i>				
D	Clear Panes of various sizes	SM	25		
	<i><u>Prepare metal surfaces; apply undercoat and two finishing coats first grade eggshell paint; as "Crown paints" or other equal approved metallic paint on metal surfaces to</u></i>				
E	General surfaces; window and burglarproofing grilles internally (measured flat overall)	SM	25		
F	General surfaces; windows externally (measured flat overall)	SM	25		
	<u>Curtain Rods</u>				
G	25mm Diameter approved wrought iron front and rear rod curtain rail cut to lengths complete with fixings, runners and end stops and screwed or plugged to wall Architect's approval	SM	11		
	<i><u>Total for Windows carried to Summary</u></i>				

PROPOSED CONSTRUCTION OF BEDSITTERS AT THINDIGUA POLICE STATION

Item	Description	Unit	Qty	Rate	Amount
	<u>ELEMENT NO. 7</u>				
	<u>DOORS</u>				
	<u>Metal Doors</u>				
	<u>The following purpose made mild steel doors complete with hanging and locking accessories fabricate in accordance with the Architectural designs ad onced primed with red oxide before delivery to the site by cutting and pinning fixing lugs to walls and plastering reveals in cement (1:3)mortar with all main frames in 50*40mm RHS Tubing.</u>				
A	Door size 900 x 2400mm high in single leaves, a fanlight 300mm high; c/w all necessary ironmongery	NO	6		
	<u>Flush Doors</u>				
	<u>Wrot mahogany panel doors</u>				
B	900 x 2400mm high; semi-solid cored flush door	NO	6		
	<u>Frames selected; in wrot mahogany</u>				
C	150x50mm with two labours	LM	35		
D	Ditto rebated transome with two labours	LM	10		
E	60x20mm Ditto moulded architraves	LM	35		
	<u>Ironmongery</u>				
	<u>Supply and fix English "Union" or other equal approved ironmongery; matching screws; locks to include a set of 3 keys.</u>				
F	Two lever mortice lock; rebated and complete with a set of brass lever handle furniture fixed to timber door	NO	6		
G	100 mm Long brass butt hinges	PRS	9		
	<u>Painting and Decorating</u>				
	<u>One undercoat two finishing coats clear polyurethane varnish; to Basco duracoat paints or equal and approved on wood surfaces</u>				
H	General surfaces of doors	SM	40		
J	Not exceeding 200 - 300mm girth internal	LM	35		
K	Prepare and prime back of frame before fixing	LM	35		
	Total for Doors carried to Summary				

PROPOSED CONSTRUCTION OF BEDSITTERS AT THINDIGUA POLICE STATION

Item	Description	Unit	Qty	Rate	Amount
	<u>ELEMENT NO. 8</u>				
	<u>FINISHES</u>				
	<u>Floor Finishings</u>				
	<u>Cement and sand (1:4) screed to floor: in</u>				
A	38mm Thick finished to receive ceramic tiles	SM	156		
	<u>300 x 300 x 8mm Approved coloured NON-SLIP glazed ceramic floor tiles as 'Saj Ceramics' or other equal and approved; to regular pattern; grouting joints in matching cement; to</u>				
B	Floors; on level screed (m/s)	SM	156		
C	Ditto 100 mm high skirting	LM	123		
	<u>Internally Wall Finishes</u>				
	<u>12mm Thick plaster in cement/sand floated with a steel trowel; to block walls and concrete surfaces in:-</u>				
D	Walls	SM	399		
	<u>Prepare surfaces and apply undercoat and two finishing coats plastic emulsion paint as "Crown Paints" or other equal approved on plastered masonry or concrete surfaces; to;</u>				
E	Walls	SM	332		
	<u>Externally Wall Finishes</u>				
	<u>12mm Thick plaster in cement/sand floated with a steel trowel; to block walls and concrete surfaces in:-</u>				
F	Extraover keying;	SM	154		
G	Render to ring beam	SM	72		
	<u>30 mm cement and sand backing to</u>				
H	Receive wall tiles	SM	67		
	<u>6mm Thick coloured glazed ceramic tiles from 'Tile and Carpet' to regular pattern; bedding and jointing in cement mortar (1:4) grouting joints with matching cement</u>				
J	To wall; grouting edges with matching cement	SM	67		
	<i>Carried to collection for Finishes</i>				

PROPOSED CONSTRUCTION OF BEDSITTERS AT THINDIGUA POLICE STATION

Item	Description	Unit	Qty	Rate	Amount
	<u>FINISHES CONTINUED</u>				
	<u>Prepare surfaces and apply undercoat and two finishing coats plastic emulsion paint as "Crown Paints" or other equal approved on plastered masonry or concrete surfaces; to;</u>				
A	Ring beam	SM	72		
B	Extraover keyed wall;	SM	154		
	<u>Ceiling Finishes</u>				
C	9mm Thick Chipboard ceiling on and including sawn cypress brandering 50 x 50mm at 600mm centres and 50 x 100mm at 1200mm centres; in both directions	SM	122		
D	Extra over soft board ceilings for access trap door size 700 x 700mm with 100 x 38mm treated cypress trimming joists between tie beams, 120 x 20mm wrot cypress frame all round and 12mm softboard panel set loose on top of frame	No	2		
	<u>Wrot prime grade cypress timber selected and kept clean</u>				
E	75 x 25mm coved Cornice	LM	109		
	<u>Aluminium or other equal and approved wood primer</u>				
F	Back of wood surface girth 100-200mm	LM	109		
	<u>Prepare and apply one undercoat and two finishing coats silk vinyl emulsion paint on</u>				
G	General surfaces of celotex	SM	122		
H	General surfaces; timber girth 100-200mm	LM	410		
	<u>Total carried to collection for Finishes</u>				
	<u>COLLECTION</u>				
	<i>Brought forward from page T/10</i>				
	<i>Brought forward from above</i>				
	<i>Total for Finishes carried to summary</i>				

PROPOSED CONSTRUCTION OF BEDSITTERS AT THINDIGUA POLICE STATION

BILL NO	Description	FROM PAGE	Amount (Kshs)
<u>BUILDERS WORK SUMMARY</u>			
1	SUBSTRUCTURES	T/01-02	
2	REINFORCED CONCRETE SUPERSTRUCTURE	T/03	
3	WALLING	T/04	
4	ROOFING	T/05	
5	RAIN WATER GOODS	T/06	
6	WINDOWS	T/07	
7	DOORS	T/08	
8	FINISHES	T/9-10	
<i>Total for Builders Work Carried to Main Summary</i>			

PROPOSED CONSTRUCTION OF BEDSITTERS AT THINDIGUA POLICE STATION

Item	Description	Unit	Qty	Rate	Amount
	<u>PROVISIONAL SUMS</u>				
	<u>The contractor shall include in his tender the following to be deducted in whole or in part as directed by the Project Manager</u>				
	<u>ELECTRICAL WORKS</u>				
A	Provide the Provisional Sum of Kshs. Two Hundred and Fifty Thousand (250,000/=) only for Electrical Installations for all the works				250,000
	<u>JOINERY WORKS</u>				
B	Provide the Provisional Sum of Kshs. Three Hundred Thousand (300,000/=) only for Kitchen Cabinets, Worktops, Wardrobe Cabinets to be omitted or expended in whole or in part at the discretion of the Architect				300,000
	<u>PLUMBING WORKS</u>				
C	Provide the Provisional Sum of Kshs. Four Hundred Thousand (Kshs400,000) for Plumbing and Drainage Work.				400,000
	<u>PROJECT MANAGER'S ADMINISTRATION EXPENSES</u>				
D	Allow a Provisional Sum of KShs. One Hundred And fifty Thousand (150,000/=) only for Project Management.				150,000
	<u>CONTINGENCY</u>				
E	Provide the Provisional Sum of Kshs. Two Hundred and Fifty Thousand (250,000/=) only for Contingencies to be omitted or expended in whole or in part at the discretion of the Architect				250,000
	<i>Total for Pc & Provisional Sum Carried to Main Summary</i>				1,350,000

**PROPOSED CONSTRUCTION OF BEDSITTERS AT THINDIGUA
POLICE STATION**

GRAND SUMMARY

ITEM	DESCRIPTION	AMOUNT (Kshs)
1	BUILDERS WORK	
2	P.C & PROVISIONAL SUMS	1,350,000
3	GRAND TOTAL CARRIED TO FORM OF TENDERS	

Contractor's Name.....

Signature:

Address:

Date:.....

Witness's Name:.....

Signature:

Address:

Date:.....