



REPUBLIC OF KENYA
MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND
URBAN DEVELOPMENT

STATE DEPARTMENT FOR PUBLIC WORKS

BILL OF QUANTITIES FOR THE PROPOSED CONSTRUCTION TO COMPLETION
OF A 12-DOOR ABLUTION BLOCK WITH 2 CHAMBERS FOR PWDs AT SISION
PRIMARY SCHOOL (6 DOOR FOR BOYS, 6 DOOR FOR GIRLS)

W. P. ITEM No.....

UNPRICED BILL OF QUANTITIES

REGIONAL WORKS OFFICER,
STATE DEPARTMENT FOR PUBLIC WORKS,
P.O. BOX 660 - 20100,
NAKURU.

CLIENT
NG - CDF NAIVASHA CONSTITUENCY,
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Oct, 2026

**BILL OF QUANTITIES FOR THE PROPOSED CONSTRUCTION TO COMPLETION OF A 12-DOOR
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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURE (All Provisional)</u>				
	<u>Site preparation</u>				
	<u>Clearing site vegetation; grubbing up roots and filling up voids left with selected excavated material</u>				
A	Bushes, shrubs, undergrowth and small trees girth not exceeding 600mm or the like and cart away from site as directed;	36	SM		
	<u>Top soil stripping</u>				
B	Excavating vegetable soil for preservation, average 150 mm thick	36	SM		
	<u>Excavations</u>				
	To include; trimming sides and bottoms to approval;				
	<u>Excavating Surface to reduce level.</u>				
C	Average 300mm deep	36	SM		
	<u>Excavating Trenches; to receive foundations starting from reduced levels</u>				
D	Not exceeding 1.50m deep	43	CM		
	<u>Breaking out existing material; extra over all kinds of excavations irrespective of depth</u>				
E	Not exceeding 1.50m deep	8	CM		
F	Exceeding 1.5m but not exceeding 3.0m deep	8	CM		
G	Exceeding 3.0m but not exceeding 4.5m deep	8	CM		
H	Exceeding 4.5m but not exceeding 6.0m deep	8	CM		
I	Exceeding 6.0m but not exceeding 7.5m deep	8	CM		
J	Exceeding 7.5m but not exceeding 9.0m deep	8	CM		
K	Exceeding 9.0m but not exceeding 12.0m deep	15	CM		
	<u>Breaking out existing material; extra over all kinds of excavations irrespective of depth</u>				
L	Extra over all types of excavations for excavating in rock of all types	1	CM		
	Total Carried to collection				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Disposal</u>				
A	Backfill with selected excavated material around foundations; compacting in layers maximum 150mm thick; including double or multi handling of excavated whedre necessary	25	CM		
B	Surplus excavated material; removing from site mechanically	80	CM		
	<u>Disposal of water</u>				
C	Labour and materials, allow for keeping excavations free from general water by pumping, bailing or any other approved methods	1	ITEM		
	<u>Planking and strutting</u>				
D	Labour and materials, to uphold sides of excavation generally	1	ITEM		
	<u>FILLING</u>				
	<u>Hardcore</u>				
E	300mm thick hardcore to make up levels, depositing and compacting in layers maximum 150mm thick levelling and grading to appoval	31	SM		
	<u>Murram</u>				
F	Quarry dust murram blinding 50 mm thick rolled smooth to receive polythene sheeting	31	SM		
	<u>Anti-termite treatment</u>				
	<u>Applying "Termidor 25 EC" solution or other equal and approved sprayed evenly by an approved specialist strictly in accordance with the manufacturer's instructions</u>				
G	To surface of fill and tops of foundation walls	41	SM		
	<u>CONCRETE WORK</u>				
	<u>Insitu concrete</u>				
	<u>Plain mix 1:4:8 50mm thick blinding to:</u>				
H	Under strip footing	28	SM		
	<u>Vibrated reinforced concrete Class 20/20mm (1:2:4) in:-</u>				
I	Foundation strip	6	CM		
J	Floor Beds; 150 mm thick	41	SM		
	Total Carried to collection				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>REINFORCEMENT</u>				
	<u>Bars : high tensile steel; cold worked; B. S. 4461 including bends, hooks, tying wire, distance blocks and spacers</u>				
	<u>Suspended slab</u>				
A	10mm diameter bars; main bars	193	KG		
	<u>Fabric; B.S 4483</u>				
B	Reference A98; mesh 200 x 200 mm weight 2.22 kgs per square meter (Measured net - no allowance made for laps); including bends, tying wire and distance blocks in any location	41	SM		
	<u>Formwork</u>				
	<u>Sawn softwood formwork to insitu concrete</u>				
C	Soffites of suspended slab	6	SM		
D	Edges of floor bed 75 to 150 mm high	24	LM		
	<u>Foundation walling</u>				
	<u>Rough chisel dressed natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoop iron in every alternate course</u>				
E	200mm thick foundation walling	71	SM		
	<u>Damp proof membrane</u>				
	<u>1000 gauge Polythene laid with 150mm laps, (No allowance made for laps)</u>				
F	Horizontal, 1 No. of layer(s) over 300 mm wide	36	SM		
	Total Carried to collection				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>Plinth finishes</u> <u>Render, cement and sand (1:3) wood floated</u> 12mm thick 2 No. coat work, to concrete or blockwork base (m/s) generally external <u>Painting; 3 coats black bituminous paint to</u>	7	SM		
B	Rendered surfaces external	7	SM		
Total Carried to collection					
	<u>COLLECTION</u> B/F from page 1 B/F from page 2 B/F from page 3 B/F from above				
Total for Substructures carried to Summary					

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	ELEMENT NO. 2 REINFORCED CONCRETE FRAME <u>Concrete work</u> <u>In situ concrete</u> <u>Vibrated class 20/20mm (1:2:4) in:-</u> Ring beams <u>Reinforcement</u> <u>Bars : high tensile steel; cold worked; B. S. 4461 including bends, hooks, tying wire, distance blocks and spacers</u> <u>Beams</u>	1	CM		
B	8mm diameter; links	54	KG		
C	12mm diameter; main bars	98	KG		
D	<u>Formwork to insitu concrete</u> <u>Sawn formwork as described to:-</u> Sides and soffits of beams.	12	SM		
Total Reinforced Concrete carried to Summary					

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	ELEMENT NO. 3				
	<u>WALLING</u>				
	<u>Waterproofing</u>				
	<u>Horizontal damp proof course ; one layer of 3 - ply bituminous felt or other equal and approved (measured nett - allow for laps)</u>				
	200mm wide, levelled and bedded in cement mortar (1:3)	12	LM		
	<u>External & Internal Walling</u>				
	<u>Natural hard machine cut stone; selected and approved; in walling with a crushing strength of 7.5 N/mm²; walling bedded and jointed in cement and sand (1:3) mortar in 200mm, course height; reinforcement with and including 25mm wide x 20 gauge hoop iron and column wall ties at every alternate course as described in;</u>				
	B 200mm thick walling	96	SM		
	C 200mm thick gable walls	2	SM		
	D Raking cutting to 200mm thick wall	7	LM		
Total Walling Carried to Summary					

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 4</u>				
	<u>ROOF AND RAIN WATER GOODS</u>				
	<u>Roof covering</u> <u>Gauge 28 prepainted resin coat IT5 roofing sheets; colour as selected by Architect; fixed with self-drilling fasteners to steel purlins; allow foam fillers to open eaves and ridge</u>				
A	Roof covering not exceeding 30 degrees from the horizontal	31	SM		
	<u>CARPENTRY</u>				
	<u>Structural timbers</u> <u>Truss joints to be bolted with appropriated No. of shear connectors or as instructed by Structural Engineer and hoisting approximately 2850mm above ground floor level</u> <u>All timber to be sawn cypress of G.S grade seasoned to an equilibrium moisture content between 9%and 15% and to a requirement of K.S 02771 of 1991 treated with approved wood preservative.</u>				
B	150 x 50mm King post	3	LM		
C	Ditto tie beam	22	LM		
D	Ditto trussed rafters	16	LM		
E	100x50mm Tie or strut	12	LM		
F	75 x 50mm purlin/battens	36	LM		
G	100 x 50mm Wall plate bedded in cement : sand (1:3) mortar secured to reinforced concrete ring beam (m/s) by mild steel16mm diameter anchor bolts at 1000mm centres	13	LM		
	<u>Boarding</u>				
	<u>Wrought cypress, prime grade, pressure impregnated</u>				
H	225 x 25mm thick Fascia or barge boards	21	LM		
	<u>Painting and decorating</u> <u>One undercoat and two coats oil paint full gloss finish to crown paints or equal and approved</u>				
I	Timber surfaces 200 to 300mm girth external	21	LM		
	Total Roofing Carried to Summary				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5</u>				
	<u>DOORS</u>				
	<u>Joinery</u>				
	<u>Frames; Wrot cypress or approved equivalent</u>				
	 <u>Steel door(s)</u>				
	<u>Purposed made mild steel doors complete with pin type hinges; welded smooth; all necessary ironmongery to approval; one coat red oxide painted; comprising 50 x 50 x 3mm thick RHS external frame fishtail grouted into concrete/block/masonry walling; 50 x 50 x 3mm R.H.S horizontal intermediate frames welded onto and including 50 x 50 x 3 mm RHS surround frame at 300mm centres; 25 x 3 mm thick flat door stopper with and including for 25x25x 2mm SHS beading; door leaf infilled with 2mm thick pressed metal panels profiled to form panels welded; all welding, grounding to a smooth finish including for priming door with one coat red oxide primer; pointed internally and externally with approved mastic sealant</u>				
A	Door overall size 800 x 2100mm high welded complete	5	No.		
B	Door overall size 1200 x 2100mm high welded complete	1	No.		
	 <u>Ironmongery</u>				
	<u>Supply and fix the following : -</u>				
C	Steel butt hinges 100mm	9	PRS		
D	Rubber door stops fixed to wall or floor with screws	6	No.		
E	150mm long aluminium padlocking bolt; externally and internally	6	No.		
	 <u>Painting and decorating</u>				
	<u>Prepare and apply one coat etching primer two undercoats and one coat oil paint full gloss furnish to metal work</u>				
F	General surfaces of Timber doors (both sides measured overall)	22	SM		
	 Total Doors Carried to Summary				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 6</u>				
	<u>FINISHES</u>				
	<u>External finishes</u>				
	<u>Render</u>				
	<u>15mm thick cement:sand (1:3) render finished with woodfloat to:</u>				
A	Concrete/masonry surfaces to receive exterior paint work (measured separately)	37	SM		
B	Ditto to gable wall end façade	2	SM		
	<u>Painting and decorating</u>				
	<u>Prepare and apply -2no. coats Anti-Algae priming coat on exposed wall surfaces as per the manufacturers specifications and -</u>				
	<u>3no. coats Wheather Guard paint as manufactured by Caparol or equivalent quality to:</u>				
C	Rendered concrete/masonry surfaces (measured separately)	37	SM		
D	Ditto to gable wall end façade	2	SM		
	<u>Key pointing</u>				
E	12 x 12mm cement and sand(1:3) mortar horizontal recessed pointing to natural stone walling	12	SM		
	<u>Internal finishes</u>				
	<u>Wall finishes</u>				
	<u>Mortar; Cement and sand (1:4) backings:</u>				
F	12mm backing finished to receive ceramic wall tiles (m.s); average 900mm high	218	SM		
	Total Carried to collection				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Wall finishes</u>				
	<u>Plaster; 9mm thick first coat of cement and sand (1:6); 3mm second coat to cement and lime putty (1:10); steel trowelled smooth</u>				
A	12mm thick to concrete or masonry walls	218	SM		
	<u>Prepare and apply 1no. Priming undercoat to manufacturers specifications and -3no. finishing coats - vinyl Silk as manufactured by Caparol Paints or equivalent on clean wall surface free of dust, algae, and undulations to;</u>				
B	Plastered walls (m.s)	218	SM		
	<u>Floor finishes</u>				
	<u>Screed</u>				
	<u>Cement : sand (1:3) wood floated screeds, backings, beds</u>				
C	32mm thick floor screed	41	SM		
	<u>Steel railing to PWD's toilet</u>				
D	Supply and plug to floor, a steel railing to engineer's approval to the PWD toilet; model and type shall be directed by the Engineer	1	No.		
	Total Carried to collection				
	<u>Collection</u>				
	B/F from page 10				
	B/F from above				
	Total Finishes carried to summary				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY</u>				
A	Substructures				
B	Reinforced Concrete				
C	Walling				
D	Roofing				
E	Doors				
F	Finishes				
Total Builders work Carried to Grand Summary					

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PRIME COST AND PROVISIONAL SUMS</u>				
	<u>Prime Cost & Provisisonal 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>				
A	Allow a provisional sum of (Kshs. 100,000.00) only for Engineer's documentation and Project Management Committee expenses				
B	Allow a provisional sum of (Kshs. 10,000.00) only for Labeling and				
Total Prime Cost and Provisional Sums carried to Grand Summary					

GRAND SUMMARY

ITEM	DESCRIPTION	For Official Use only	For Tenderer's use only
A	Bill No. 1 Preliminaries		
B	Bills No. 2 Measured Works:		
	BUILDER'S WORK - BOYS BLOCK		
	BUILDER'S WORK - GIRLS BLOCK		
C	P.C and Proviisional Sums		
	Sub - Total		
	Add 0.03% PPRA levy		
TOTAL CARRIED TO FORM OF TENDER (ALL TAXES INCLUSIVE) : KSHS			

Contract period.....Weeks

Tender Sum in words: Kenya Shillings.....
.....
.....

Tenderer's Name.....

Address.....

DateSignature and Stamp.....

Witness Name.....

Address.....

DateSignature.....