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**PROPOSED ABLUTION BLOCKS FOR WASAMO GIRLS  
SECONDARY SCHOOL**

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**BILLS OF QUANTITIES**

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SEPTEMBER 2023

Item	Description	Unit	Qty	Rate	Amount
	<b>SECTION 02</b>				
	<b>MAIN HOUSE</b>				
	<b>ELEMENT NO. 1</b>				
	<b>SUBSTRUCTURES - (ALL PROVISIONAL)</b>				
	<b><u>Site preparation</u></b>				
A	Clear site of works of all shrubs,bushes and small trees;grub up roots;fill with selected soil and burn debris	SM	65	50	3,250.00
B	Excavate to remove topsoil and load, wheel and deposit on site where directed, average depth 150mm	SM	39	100	3,900.00
	<b><u>Excavation including maintaining and supporting sides and keeping free from water, mud and all fallen materials</u></b>				
C	For foundation trenches commencing at stripped level depth not exceeding 1.50m	CM	27	350	9,450.00
D	Extra over excavation in rock of any class; found at any depth	CM	11	1500	16,200.00
	<b><u>Disposal</u></b>				
E	Backfilling around foundations	CM	19	600	11,400.00
F	Cart away surplus excavated materials and spread on site as directed	CM	19	350	6,650.00
	<b><u>Imported Filling</u></b>				
G	Hardcore bed;200mm thick, spread,levelled ,well rammed and compacted in consecutive layers ,not exceeding 100 mm each	SM	39	480	18,720.00
H	Muram blinding to hardcore; thickness 50mm	SM	39	150	5,850.00
	<b><u>Damp Proof membrane</u></b>				
I	1000Gauge polythene sheeting laid under surface beds	SM	39	200	7,800.00
	<b><u>Anti-Termite treatment</u></b>				
J	Chemical anti-termite treatment executed by an approved specialist under a ten-year guarantee to surfaces of hardcore, etc.	SM	39	180	7,020.00
	<b><u>Plain concrete class C15/40</u></b>				
K	50mm Blinding under strip foundations	SM	18	500	9,000.00
	<b>Carried forward to next page</b>				<b>99,240.00</b>

Item	Description	Unit	Qty	Rate	Amount
	<b><i>Brought forward from previous page</i></b>				<b>99,240.00</b>
	<b><u>Vibrated Reinforced Concrete Class 25/20mm;vibrated</u></b>				
A	Strip foundations	CM	5	14500	72,500.00
B	150mm thick ground floor bed	SM	39	2175	84,825.00
C	Steps	CM	1	14500	14,500.00
	<b><u>Steel bar reinforcement</u></b>				
	<b><u>Supply and fix steel bar reinforcement including cutting,bending,hooking,tying and supporting in position with precast concrete spacer blocks .All to be inspected and approved by structural engineer</u></b>				
D	Assorted bars	KG	480	180	86,400.00
	<b><u>Fabric mesh to BS. 4483</u></b>				
E	Reference A142 mesh 200 x 200 ,weight 2.22kgs per square metre (measured net-no allowance made for laps ) including bends,tying wire and distance blocks	SM	39	500	19,500.00
	<b><u>Formwork</u></b>				
F	Sides of strip footing	SM	8	650	5,200.00
G	Edges of beds, risers, - 75 to 150mm high	LM	37	200	7,400.00
	<b><u>Foundation walling</u></b>				
H	200mm thick approved local natural stone ;roughly squared to foundation walling ;bedding and jointing in cement sand (1:3) mortar	SM	60	1500	90,000.00
	<b>Carried forward to next page</b>				<b>479,565.00</b>

Item	Description	Unit	Qty	Rate	Amount
	<b><i>Brought forward from previous page</i></b>				<b>479,565.00</b>
	<b><u>Damp proofing</u></b>				
A	200mm wide ;BS.743 Type A bitumen hessian base damp proof course;150 mm laps (no allowance made for laps) horizontal;1 No. layer	LM	30	200	6,000.00
	<b><u>Plinth finishes</u></b>				
B	15mm thick ,2 no. coatwork cement sand (1:3) render,wood floated to concrete or masonry;External	SM	24	450	10,800.00
	<b><u>Prepare and apply three coats black bituminous paint on:-</u></b>				
C	Rendered plinths externally	SM	24	300	7,200.00
	<b>Element 01</b>				
	Substructures (All Provisional) - Carried to Summary				<b>503,565.00</b>

Item	Description	Unit	Qty	Rate	Amount
	<b><u>ELEMENT NO. 2</u></b>				
	<b><u>FRAME</u></b>				
	<b><u>Vibrated Reinforced Concrete Class 25/20mm;vibrated</u></b>				
B	Beams	CM	2	14500	29,000.00
	<b><u>Steel bar reinforcement</u></b>				
	<u>Supply and fix steel bar reinforcement including cutting,bending,hooking,tying and supporting in position with precast concrete spacer blocks .All to be inspected and approved by structural engineer</u>				
C	Assorted bars	KG	200	180	36,000.00
	<b><u>Formwork</u></b>				
E	Sides and soffits of ring beams	SM	24	650	15,600.00
	<b>Element No. 2</b>				
	Frame - Carried to Summary			<b>KShs.</b>	<b>80,600.00</b>

Item	Description	Unit	Qty	Rate	Amount
	<b><u>ELEMENT 03</u></b>				
	<b><u>ROOF CONSTRUCTION AND FINISHES</u></b>				
	<b><u>Roof structure</u></b>				
	<i>Sawn cypress; second grade; well seasoned and treated against termites with approved wood preservative ; with and including all jointing and connections (packing piece, bolts etc.) as necessary; in roof</i>				
	<u>Supply, assemble, fix and hoist to position the following in trusses and/or independent members</u>				
A	100 x 50mm Wall plate; fixed to concrete or masonry with and including approved bolts at 1000mm centres	LM	25	400	10,000.00
B	Supply and fix timber roof trusses and purlins to S.E's details. Roof overall area 25sm	ITEM			45,000.00
	<b><u>Roof Covering :-</u></b>				
	<b><u>Take delivery and fix the following:</u></b>				
C	Supply and fix prepainted Gauge 28 GCl. roofing sheets fixed to timber purlins (Measured separately)with approved nails and neoprene washers	SM	54	1800	97,200.00
D	Ridge and hip cap to match, 600mm girth	LM	10	800	8,000.00
	<b><u>Rainwater Disposal:-</u></b>				
	<b><u>Take delivery and fix the following:</u></b>				
	<u>24 Gauge SWG galvanized mild steel rainwater goods with lapped, rivetted and soldered joints or seams including all labours :-</u>				
E	150 X 200 mm rectangular boxed eaves gutter including fixing clamps at 600mm centre	LM	16	1500	24,000.00
F	100mm diameter pre painted rain water down pipe imbedded to walls or boxed in walls and all necessary clamping	LM	9	2050	18,450.00
G	Extra over swan neck	NO	2	650	1,300.00
H	Ditto shoe	NO	2	650	1,300.00
	<b><u>In wrot cypress</u></b>				
I	200 X 25mm fascia board	LM	16	400	6,400.00
J	Prepare and apply undercoat and two finishing coats of silk vinyl emulsion paint on surfaces not exceeding 300mm girth	LM	16	200	3,200.00
	<b>Element 03</b>				
	Roofing & Rainwater Disposal - Carried to Summary			KShs.	<b>214,850.00</b>

Item	Description	Unit	Qty	Rate	Amount
	<b><u>ELEMENT NO. 4</u></b>				
	<b><u>WALLING</u></b>				
	<b><u>Selected locally available hand dressed natural stone walling with a minimum of 7.0N/mm2 average compressive strength to BS 5390;bedded in cement and sand (1:4) mortar and hoop iron at every alternate courses</u></b>				
	<b><u>External wall</u></b>				
A	Walling, thickness, 200mm external	SM	53	1500	79,500.00
	<b><u>Internal wall</u></b>				
B	Walling, thickness, 200mm internal	SM	11	1500	16,500.00
C	Walling, thickness, 100mm internal	SM	26	1400	36,400.00
	<b><u>Damp proofing</u></b>				
D	200mm wide ;BS.743 Type A bitumen hessian base damp proof course;150 mm laps (no allowance made for laps) horizontal;1 No. layer	LM	30	200	6,000.00
E	Ditto 100mm wide	LM	16	100	1,600.00
	<b>Element No.4</b>				
	Walling - Carried to Summary			KShs.	140,000.00

Item	Description	Unit	Qty	Rate	Amount
	<b><u>ELEMENT NO. 5</u></b>				
	<b><u>FINISHES</u></b>				
	<b><u>FLOOR FINISHES</u></b>				
	<b><u>Washed terrazzo paving comprising two coats; first coat of cement and sand (1:3) and second coat of coloured cement and local granite aggregate (1:2); including 25 x 3mm dividing strips</u></b>				
A	40mm thick to Floors	SM	33	3500	115,500.00
B	10 x 200mm high skirting	LM	71	350	24,850.00
	<b><u>WALL FINISHES EXTERNALLY</u></b>				
	<b><u>Cement and Sand (1:4) render to masonry and concrete surfaces</u></b>				
C	Rendering to surfaces finished with a wood float, thickness, 15mm	SM	70	400	28,000.00
D	Prepare and apply Duracoat outdoor protector paint in accordance with manufacturer's instructions to rendered surfaces	SM	70	400	28,000.00
	<b><u>WALL FINISHES INTERNALLY</u></b>				
	<b><u>Lime plaster</u></b>				
E	12mm thick plaster floated with steel trowel to masonry or concrete surfaces	SM	99	400	39,600.00
F	12mm thick plaster floated with wood floated to masonry or concrete surfaces to receive ceramic wall tiles (measured separately)	SM	55	400	22,000.00
	<b><u>Painting</u></b>				
G	Prepare and apply undercoat and two finishing coats of silk vinyl emulsion paint on plastered masonry or concrete surfaces	SM	99	400	39,600.00
	<b><u>Wall Tiles</u></b>				
	<b><u>Supply and fix ceramic wall tiles to backing (measured separately) with an approved adhesive on walls and pointed with and including coloured anti fungal cement grout</u></b>				
H	300 x 200 x 6mm Thick tiles to Kitchen and bath areas	SM	55	1500	82,500.00
	<b>Element No. 5</b>				
	Finishes - Carried to Summary			<b>KShs.</b>	<b>380,050.00</b>

Item	Description	Unit	Qty	Rate	Amount
	<b><u>ELEMENT NO. 6</u></b>				
	<b><u>WINDOWS</u></b>				
	<b><u>Steel casement windows</u></b>				
	<b><u>Supply and fix the following Mild steel medium duty casement windows: custom made: including 50x 50 x 4mm SHS made necessary for louvres and Standard 1 inch 'Z' section framing including T-sections intermediate framing: including all fixing lugs and approved ironmongery: (glass has been measured separately) (Refer to drawings for more details)(All glass has been measured separately</u></b>				
A	Window overall size 3300 x 900mm high	NO	2	19305	38,610.00
B	Window overall size 5400 x 900mm high	NO	1	31590	31,590.00
C	Window overall size 900 x 900mm high	NO	1	5265	5,265.00
	<b><u>Glazing</u></b>				
D	Supply and fix 5mm Thick obscure sheet glass and glazing to steel in panes 0.5-1.00 sm	SM	12	1800	21,600.00
	<b><u>Prepare and apply pure white oil undercoat/primer and three coats of gross oil paint on metal:-</u></b>				
E	General surfaces of steel windows (Both sides measured)	SM	24	300	7,200.00
	<b><u>Fine chisel dressed stone in cement lime mortar</u></b>				
F	Supply and fix precast Throated window cill, size 250x75mm	LM	17	800	13,600.00
	<b>Element No. 6</b>				
	Windows - Carried to Summary			<b>KShs.</b>	<b>117,865.00</b>

Item	Description	Unit	Qty	Rate	Amount
	<b><u>ELEMENT NO. 7</u></b>				
	<b><u>DOORS</u></b>				
	<b><u>Doors, frames and finishings in wrought softwood</u></b>				
A	Moulded Architraves size, 75x25mm	LM	26	280	7,280.00
B	Quadrant beadings, size 25x25mm	LM	26	180	4,680.00
C	Rebated door frame with four labours plugged, size 100x50mm	LM	26	800	20,800.00
	<b><u>Door Shutters</u></b>				
	<b><u>40mm thick ordinary flush faced both sides including hanging to frame (m.s.);solid core</u></b>				
D	Single leaf door overall size 900 x 2100mm high ;comprising 1 No. openable leaf size 800 x 2050mm high	NO	1	9500	9,500.00
E	Ditto overall size 800 x 2100mm high	NO	4	8500	34,000.00
	<b><u>Ironmongery</u></b>				
	<b><u>Supply and fix the following ironmongery with screws to match</u></b>				
F	Heavy duty natural aluminium hinges approved from samples	PRS	8	1200	9,600.00
G	Washroom lock complete with a set of lever furniture and approved from sample	NO	5	3000	15,000.00
	<b><u>Painting and decoration</u></b>				
	<b><u>Prepare and apply one coat wood preservative to woodwork before fixing</u></b>				
H	Surfaces,girth not exceeding 100mm	LM	52	50	2,600.00
I	Ditto, Surfaces, 100 to 200mm girth	LM	26	100	2,600.00
	<b><u>Prepare, stain and apply three coats of approved paint to woodwork</u></b>				
J	General surfaces	SM	19	400	7,600.00
K	Surfaces,girth not exceeding 100mm	LM	52	150	7,800.00
L	Ditto, Surfaces, 100 to 200mm girth	LM	26	180	4,680.00
	<b><i>Carried forward to next page</i></b>				<b>126,140.00</b>

Item	Description	Unit	Qty	Rate	Amount
	<i>Brought forward from previous page</i>				<b>126,140.00</b>
	<b><u>STEEL CASEMENT DOOR</u></b>				
	<i>Note: All doors at top to have mild steel hood with a 30mm gap filled in with mosquito gauze</i>				
	<u>Supply, assemble and fix the following purpose made steel casement doors with standard R H S; including 5mm thick one way glass; powdercoating to all surfaces by the manufacturer, building in lugs to jambs, plugging and screwing to head or cill, bedded all round in cement and sand (1:3) mortar and pointing one side in mastic, and complete with bronze handles ,peg stays and all other necessary ironmongery, and oiling, easing and adjusting all strictly as per Architect's Window Schedule</u>				
A	Overall size 900mm x 2400mm High	NO	1	12285	12,285.00
	<b><u>CURTAIN BLINDS TO OPENINGS</u></b>				
B	Supply and Fix 25mm stainless steel rod complete with fixing screws to walls; complete with synthtic blinds to door openings overall size 800 x 2000mm high	NO	6	4000	24,000.00
<b>Element No. 7</b>					
Doors	- Carried to Summary			KShs.	162,425.00

Item	Description	Unit	Qty	Rate	Amount
	<b><u>ELEMENT NO. 8</u></b>				
	<b><u>FIXTURES</u></b>				
	<b><u>Kitchen worktops</u></b>				
A	Low level worktop overall size 3300 x 600 x 900mm high comprising 75mm thick concrete (1:2:4) in worktop slab ;leaving holes for approved slab sink at specified areas ;heavy gauge weld mesh;plastering and laying approved ceramic tiles to tops complete with 100mm thick dwarf walls under worktop	NO	1	33000	33,000.00
B	Ditto 1550mm long	NO	1	15500	15,500.00
	<b>Element No. 8</b>				
	Fixtures - Carried to Summary			<b>KShs.</b>	<b>48,500.00</b>

Item	Description	Unit	Qty	Rate	Amount
	<b><u>BUILDER'S WORK</u></b>				
	<b><u>SUMMARY</u></b>				
1	SUBSTRUCTURES - (ALL PROVISIONAL)				503,565.00
2	FRAME				80,600.00
3	ROOF CONSTRUCTION AND FINISHES				214,850.00
4	WALLING				140,000.00
5	FINISHES				380,050.00
6	WINDOWS				117,865.00
7	DOORS				162,425.00
8	FIXTURES				48,500.00
	Builders' Works Carried to Main Summary			KShs.	1,647,855.00

Item	Description	Unit	Qty	Rate	Amount
	<b>SECTION 03</b>				
	<b>PRIME COST &amp; PROVISIONAL SUMS</b>				
	<b>ELECTRICAL INSTALLATIONS</b>				
A	<u>Allow the P.C. Sum of Kenya Shillings One Hundred Thousand Only (Kshs. 100,000.00) Only for ELECTRICAL INSTALLATIONS to be executed complete by a Nominated Sub- Contractor.</u>	ITEM		100000	100,000.00
B	Add for Profit	ITEM	4%		4,000.00
C	Allow for General Attendance to ditto	ITEM			4,000.00
	<b>PLUMBING, DRAINAGE AND SANITARY FITTINGS</b>				
D	<u>Allow the P.C. Sums of Kenya Shillings One hundred and Fifty thousand (Kshs 150,000.00) Only for PLUMBING, DRAINAGE AND SANITARY FITTINGS INSTALLATIONS to be executed complete by a Nominated Sub-Contractor</u>	ITEM		150000	150,000.00
E	Add for Profit	ITEM	4%		6,000.00
F	Allow for General Attendance to ditto	ITEM			6,000.00
	PC Sums Carried to main summary			<b>KShs.</b>	<b>270,000.00</b>

**PROPOSED ABLUTION FOR WASAMO GIRLS SECONDARY SCHOOL**

**MAIN SUMMARY**

<b>Section No</b>	<b>SECTION NAME</b>	<b>AMOUNT</b>
1	PRELIMINARIES	143,839.13
2	MAIN BUILDING	1,647,855.00
3	PRIME COST SUMS	270,000.00
4	CONTINGENCIES	100,000.00
	<b>TOTAL CARRIED TO TENDER</b>	<b><u>2,161,694.13</u></b>