

---

**PROPOSED DINING HALL AND KITCHEN FOR  
WASAMO GIRLS SECONDARY SCHOOL**

---

**BILLS OF QUANTITIES**

---

JUNE 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	540	50	27,016.00
B	Excavate to remove topsoil and load, wheel and deposit on site where directed, average depth 150mm	SM	446	100	44,600.00
	<b><u>Excavation including maintaining and supporting sides and keeping free from water, mud and all fallen materials</u></b>				
C	For pits commencing at stripped level depth not exceeding 1.50m	CM	27	350	9,450.00
D	For foundation trenches commencing at stripped level depth not exceeding 1.50m	CM	120	350	42,000.00
E	Extra over excavation in rock of any class; found at any depth	CM	59	1500	88,200.00
	<b><u>Disposal</u></b>				
F	Backfilling around foundations	CM	186	600	111,600.00
G	Cart away surplus excavated materials and spread on site as directed	CM	20	350	7,000.00
	<b><u>Imported Filling</u></b>				
H	Hardcore bed;200mm thick, spread,levelled ,well rammed and compacted in consecutive layers ,not exceeding 100 mm each	SM	413	480	198,018.24
I	Muram blinding to hardcore; thickness 50mm	SM	413	150	61,880.70
	<b><u>Damp Proof membrane</u></b>				
J	1000Gauge polythene sheeting laid under surface beds	SM	446	200	89,200.00
	<b><u>Anti-Termite treatment</u></b>				
K	Chemical anti-termite treatment executed by an approved specialist under a ten-year guarantee to surfaces of hardcore, etc.	SM	446	180	80,280.00
	<b><u>Plain concrete class C15/40</u></b>				
L	50mm Blinding under column bases	SM	23	500	11,250.00
M	50mm Blinding under strip foundations	SM	100	500	50,193.00
	<b>Carried forward to next page</b>				<b>820,687.94</b>

Item	Description	Unit	Qty	Rate	Amount
	<b><i>Brought forward from previous page</i></b>				<b>820,687.94</b>
	<b><u>Vibrated Reinforced Concrete Class 25/20mm;vibrated</u></b>				
A	Column Bases	CM	7	14500	97,875.00
B	Strip foundations	CM	25	14500	363,899.25
C	Columns	CM	1	14500	14,500.00
D	150mm thick ground floor bed	SM	446	2175	970,050.00
E	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>				
F	Assorted bars	KG	2538	180	456,927.75
	<b><u>Fabric mesh to BS. 4483</u></b>				
G	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	446	500	223,000.00
	<b><u>Formwork</u></b>				
H	Sides of column bases	SM	18	650	11,700.00
I	Sides of columns	SM	17	650	10,920.00
J	Sides of strip footing	SM	84	650	54,570.75
K	Edges of beds, risers, - 75 to 150mm high	LM	122	200	24,464.00
	<b><u>Foundation walling</u></b>				
L	200mm thick approved local natural stone ;roughly squared to foundation walling ;bedding and jointing in cement sand (1:3) mortar	SM	251	1500	376,447.50
	<b>Carried forward to next page</b>				<b>3,439,542.19</b>

Item	Description	Unit	Qty	Rate	Amount
	<b><i>Brought forward from previous page</i></b>				<b>3,439,542.19</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	167	100	16,731.00
	<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	73	450	33,026.40
	<b><u>Prepare and apply three coats black bituminous paint on:-</u></b>				
C	Rendered plinths externally	SM	73	300	22,017.60
	<b>Element 01</b>				
	Substructures (All Provisional) - Carried to Summary				<b>3,511,317.19</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>				
A	Columns	CM	6	14500	87,000.00
B	Beams	CM	6	14500	87,000.00
	<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	1440	180	259,200.00
	<b><u>Formwork</u></b>				
D	Sides of columns	SM	72	650	46,800.00
E	Sides and soffits of ring beams	SM	82	650	53,300.00
	<b>Element No. 2</b>				
	Frame - Carried to Summary			<b>KShs.</b>	<b>533,300.00</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	104	400	41,600.00
B	Supply and fix timber roof trusses and purlins to S.E's details.Roof overall area 564sm	ITEM			1,128,000.00
	<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	564	1800	1,015,200.00
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,riveted 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	112	1500	168,000.00
F	100mm diameter pre painted rain water down pipe imbedded to walls or boxed in walls and all necessary clamping	LM	30	2050	61,500.00
G	Extra over swan neck	NO	6	650	3,900.00
H	Ditto shoe	NO	6	650	3,900.00
	<b><u>In wrot cypress</u></b>				
I	200 X 25mm fascia board	LM	100	400	40,000.00
J	Prepare and apply undercoat and two finishing coats of silk vinyl emulsion paint on surfaces not exceeding 300mm girth	LM	100	200	20,000.00
	<b>Element 03</b> Roofing & Rainwater Disposal - Carried to Summary			KShs.	<b>2,490,100.00</b>



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>Cement and sand (1:3) screed to floor mixed with SIKA or equivalent approved hardener ;finished smooth on concrete to Architect's approval</u></b>				
A	50mm thick to Floors	SM	328	800	262,096.00
B	Skirtings;100mm high with rounded junction with wall finish and straight junction with floor finish	LM	76	150	11,340.00
	<b><u>Painting and decoration</u></b>				
C	Prepare and apply 3 coats of approved floor paint as supplied by "Basco paints" or other equal and approved	SM	328	300	98,286.00
D	100mm high skirting	LM	76	90	6,804.00
	<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>				
E	40mm thick to Kitchen Floors	SM	92	3500	322,000.00
F	10 x 200mm high skirting	LM	71	350	24,850.00
	<b><u>Cement and sand (1:3) screed to floors</u></b>				
G	32mm Bed laid to receive non-slip ceramic floor tiles (measured separately)	SM	4	400	1,600.00
	<b><u>Supply and fix the following floor tiles fixed to screed backing (measured separately) with and including approved adhesive and pointed with coloured anti-fungal grout</u></b>				
H	300 x 300 x 10mm Thick tiles non-slip ceramic	SM	4	1600	6,400.00
	<i>Carried forward to next page</i>				<b>733,376.00</b>

Item	Description	Unit	Qty	Rate	Amount	
<i>Brought forward from previous page</i>					<b>733,376.00</b>	
<b><u>CEILING FINISHES</u></b>						
A	Supply and fix 9mm thick chipboard ceiling fixed to and including 50x50mm cypress branderings at 600mm c/c both ways, with clout headed nails and set out in symmetrical panels with 'V' joints including 75x50mm softwood moulded timber cornice	SM	15	2000	30,000.00	
<b><u>Prepare and apply undercoat and two finishing coats of silk vinyl emulsion paint on:-</u></b>						
B	Soffits of chipboard ceiling	SM	15	350	5,250.00	
<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	537	300	161,010.00	
D	Prepare and apply Duracoat outdoor protector paint in accordance with manufacturer's instructions to rendered surfaces	SM	537	300	161,010.00	
<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	339	400	135,600.00	
F	12mm thick plaster floated with wood floated to masonry or concrete surfaces to receive ceramic wall tiles (measured separately)	SM	27	400	10,800.00	
<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	339	400	135,600.00	
<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	27	1500	40,500.00	
<b>Element No. 5</b> Finishes - Carried to Summary					<b>KShs.</b>	<b>1,413,146.00</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 3000 x 1200mm high	NO	3	21600	64,800.00
B	Window overall size 900 x 900mm high	NO	2	5265	10,530.00
	<b><u>Glazing</u></b>				
C	Supply and fix 5mm Thick clear sheet glass and glazing to steel in panes 0.5-1.00 sm	SM	11	1600	17,600.00
D	Ditto but in 5mm thick obscure glass	SM	2	1800	3,600.00
	<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	26	300	7,800.00
	<b><u>Fine chisel dressed stone in cement lime mortar</u></b>				
F	Supply and fix precast Throated window cill, size 250x75mm	LM	13	800	10,400.00
	<b>Element No. 6</b> Windows - Carried to Summary			<b>KShs.</b>	<b>114,730.00</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	6	280	1,680.00
B	Quadrant beadings, size 25x25mm	LM	6	180	1,080.00
C	Rebated door frame with four labours plugged, size 150x50mm	LM	6	800	4,800.00
	<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 2400mm high ;comprising 1 No. openable leaf size 800 x 2050mm high;fanlight overall size 900 x 300mm high complete with glazing beading infilled with 5mm thick clear sheet glazing	NO	1	9500	9,500.00
	<b><u>Ironmongery</u></b>				
	<b><u>Supply and fix the following ironmongery with screws to match</u></b>				
E	Heavy duty natural aluminium hinges approved from samples	PRS	2	1200	2,400.00
F	Two lever mortise lock complete with a set of lever furniture and approved from sample	NO	1	3000	3,000.00
	<b><u>Painting and decoration</u></b>				
	<b><u>Prepare and apply one coat wood preservative to woodwork before fixing</u></b>				
G	Surfaces,girth not exceeding 100mm	LM	12	50	600.00
H	Ditto, Surfaces, 100 to 200mm girth	LM	6	100	600.00
	<b><u>Prepare, stain and apply three coats of approved paint to woodwork</u></b>				
I	General surfaces	SM	5	400	2,000.00
J	Surfaces,girth not exceeding 100mm	LM	12	150	1,800.00
K	Ditto, Surfaces, 100 to 200mm girth	LM	6	180	1,080.00
	<b><i>Carried forward to next page</i></b>				<b>28,540.00</b>

Item	Description	Unit	Qty	Rate	Amount
	<i>Brought forward from previous page</i>				<b>28,540.00</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	5	18360	91,800.00
	<b>Element No. 7</b>				
	Doors - Carried to Summary			KShs.	120,340.00

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 laboratory worktop overall size 12000 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	90000	90,000.00
	<b><u>Shelves to Locker Rooms</u></b>				
B	2000x 2100mm high Shelving in softwood timber comprising of 100mm thick toe;20mm thick wooden partition at 1.0m c/c ;5 no shelves in 20mm thick timber including a plywood back and painting all to the satisfaction of the Architect	LM	2	9500	19,000.00
	<b>Element No. 8</b>				
	Fixtures - Carried to Summary			<b>KShs.</b>	<b>109,000.00</b>

Item	Description	Unit	Qty	Rate	Amount
	<b><u>BUILDER'S WORK</u></b>				
	<b><u>SUMMARY</u></b>				
1	SUBSTRUCTURES - (ALL PROVISIONAL)				3,511,317.19
2	FRAME				533,300.00
3	ROOF CONSTRUCTION AND FINISHES				2,490,100.00
4	WALLING				337,500.00
5	FINISHES				1,413,146.00
6	WINDOWS				114,730.00
7	DOORS				120,340.00
8	FIXTURES				109,000.00
	Builders' Works Carried to Main Summary			<b>KShs.</b>	<b>8,629,433.19</b>

Item	Description	Unit	Qty	Rate	Amount
	<b>SECTION 03</b>				
	<b>PRIME COST &amp; PROVISIONAL SUMS</b>				
	<b>ELECTRICAL INSTALLATIONS</b>				
A	Allow the P.C. Sum of Kenya Shillings One Million Two Hundred Thousand Only ( <b>Kshs. 1,200,000.00</b> ) Only for <b>ELECTRICAL INSTALLATIONS</b> to be executed complete by a Nominated Sub-	ITEM		1200000	1,200,000.00
B	Add for Profit	ITEM	4%		48,000.00
C	Allow for General Attendance to ditto	ITEM			48,000.00
	<b>PLUMBING, DRAINAGE AND SANITARY FITTINGS</b>				
D	Allow the P.C. Sums of Kenya Shillings Five hundred thousand ( <b>Kshs 500,000.00</b> ) Only for <b>PLUMBING, DRAINAGE AND SANITARY FITTINGS INSTALLATIONS</b> to be executed complete by a Nominated Sub-Contractor	ITEM		500000	500,000.00
E	Add for Profit	ITEM	4%		20,000.00
F	Allow for General Attendance to ditto	ITEM			20,000.00
	<b>BOILERS</b>				
D	Allow the P.C. Sums of Kenya Shillings Three hundred thousand ( <b>Kshs 300,000.00</b> ) Only for <b>BOILER INSTALLATIONS</b> to be executed complete by a Nominated Sub-Contractor	ITEM		300000	300,000.00
E	Add for Profit	ITEM	4%		12,000.00
F	Allow for General Attendance to ditto	ITEM			12,000.00
	PC Sums Carried to main summary			<b>KShs.</b>	<b>2,160,000.00</b>

**PROPOSED DINING HALL AND KITCHEN FOR WASAMO GIRLS SECONDARY SCHOOL**

**MAIN SUMMARY**

<b>Section No</b>	<b>SECTION NAME</b>	<b>AMOUNT</b>
1	PRELIMINARIES	1,078,943.32
2	MAIN BUILDING	8,629,433.19
3	PRIME COST SUMS	2,160,000.00
4	CONTINGENCIES	500,000.00
<b>TOTAL CARRIED TO TENDER</b>		<b>12,368,376.51</b>