

**REPUBLIC OF KENYA**



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

**PROPOSED 2 STOREY CLASSROOM CUM  
ADMIN BLOCK FOR KASARINI SECONDARY  
SCHOOL FINISHES**

**TENDER NO: .....**

**TENDER DOCUMENT**

DIRECTOR-COUNTY PUBLIC WORKS  
(STATE DEPARTMENT OF PUBLIC WORKS)  
P.O. BOX 189 -00900  
**KIAMBU**

COUNTY ARCHITECT  
(STATE DEPARTMENT OF PUBLIC WORKS)  
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COUNTY STRUCTURAL ENGINEER  
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(STATE DEPARTMENT OF PUBLIC WORKS)  
P.O. BOX 189 -00900  
**KIAMBU**

**FEBRUARY, 2021**

PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b><u>OPENINGS</u></b>				
	<b><u>WINDOWS</u></b>				
	<i>The following purpose made steel casement windows furnished from 25x25*3mm SHS including plugging into masonry and all associated ironmongery.</i>				
A	Window size 3600x1000mm With 2No. Openable light of equal dimensions	No	1		
B	Ditto 2400x1000mm ditto	No	3		
C	Ditto 2700x1500mm ditto	NO	8		
D	Ditto 2700x1000mm	No	1		
E	Window size 4300x800mm ditto	No	1		
D	600x800mm	No	2		
E	3800x1500mm High mild steel grill in 25x25mm SHS infillsat 150mm centres in 50x50x3mm frame grille morticed in concrete or masonry walling to approval.	NO	2		
F	4500x2400mm High mild steel grill in 25x25mm SHS infillsat 150mm centres in 50x50x3mm frame grille morticed in concrete or masonry walling to approval including a 900x2400mm high lockable door	NO	1		
	<b><u>Painting and Decorations</u></b>				
	<i>approval:</i>				
G	General window surfaces	SM	79		
H	4mm thick clear glass and glazing with putty in panes not exceeding 0.10SM	SM	53		
J	4mm Thick Obscure glass and glazing with putty in panes not exceeding 0.1SM	SM	4		
	<b><u>Carried to collection</u></b>				

PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>DOORS</b>				
	<b><u>framing</u></b>				
A	150x50mm; 2 no.Labours plugged door frame	LM	41		
B	40x25mm weathered architrave	LM	41		
C	25mm rounded quadrant	LM	41		
	<b><u>45mm Thick semi-solid core flush doors veneered boh sides with first quality plywood and lipped on all edges in approved hardwood</u></b>				
D	Door size 900x1500mm high	NO	8		
	Steel casement door primed with red oxide before fixing including door frame and necessary ironmongery for fixing and locking Door size				
E	1100x2400mm high double leaf door	NO	6		
	Steel casement door primed with red oxide before fixing including door frame and necessary ironmongery for fixing and locking Door size				
E	1500x2400mm high double leaf door	NO	1		
	<b><u>IRONMONGERY</u></b>				
	<b><u>Supply and fix the following ironmongery with screws to match.</u></b>				
F	Toilet locks	NO	3		
G	100mm steel butt hinges with steel screws	Prs	12		
	3 lever mortice locks	NO	5		
H	Rubber door stop fixed to concrete floor or masonry walling with and including 38mm rawl bolt	NO.	16		
	<b><u>PAINTING AND DECORATING</u></b>				
J	Back of wood surface exceeding 100mm girth but not exceeding 200mm girth	LM	123		
	<b><u>Knot, prime, stop prepare and apply one undercoat and two finishing coats polyurethane varnish on</u></b>				
K	General surfaces of timber doors	SM	30		
	<b><u>Prepare and apply one undercoat and two finishing coats gloss paint on</u></b>				
K	General surfaces of steel doors	SM	39		
	<b><u>GLAZING</u></b>				
L	4mm thick clear glass and glazing with putty in panes not exceeding 0.10SM	SM	3		
	<b><u>Carried to collection</u></b>				
	<b><u>COLLECTION</u></b>				
	<b><u>From page 1</u></b>				
	<b><u>From page 2</u></b>				
	<b><u>Carried to summary</u></b>				

PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b><u>STAIRCASE FINISHES</u></b>				
	<i>Cement sand backing 1:3 to receive terrazo to:</i>				
A	28mm Thick intermediate landings	SM	12		
B	28mm Thick x320mm wide treads	LM	34		
C	28mm Thick x 150mm high risers	LM	36		
D	28mm Thick x 100mm high moulded skirting coved at the junction to floors, with rounded top, including labours to stair profiles	LM	25		
E	12mm Thick terrazzo paving to intermediate landings	SM	12		
F	12mm Thick terrazzo paving to 320mm wide treads	LM	34		
G	12mm Thick terrazzo paving to 150mm high risers	LM	36		
H	12mm Thick x 100mm high moulded skirting coved at the junction to floors, with rounded top, including labours to stair profiles	LM	25		
J	32x3mm Thick plastic dividing strip set in terrazzo pavings to approved pattern.	LM	8		
K	Extra over terrazzo pavings for 25mm wide carborandum non slip insert.	LM	34		
	<b><u>BALUSTRADES AND RAILING</u></b>				
L	1200mm High,25x25x4mm Thick RHS baluster,in 40x40x3mm frame with intermediate horizontal sections at 1500mm centres; fish tailed and grouted on one end at 300mm centres and screwed/bolted on the other to 75mm diameter handrail all cut and welded to approved detail	SM	113		
	<i>Prepare and apply one undercoat and two finishing coats gloss paint on</i>				
M	General surfaces of mild steel balustrades	LM	94		
	<b>Carried to summary</b>				

PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>FINISHES</b>				
	<b>FLOOR FINISHES</b>				
A	32mm Thick cement sand screed to receive ceramic tiles	SM	193		
B	300x300mm Non slip ceramic tiles to floors	SM	193		
C	38mm Thick (24mm C&S backing and 14mm thick terrazzo layer) polished terrazzo paving to floors including dividing strips	SM	250		
	<b>WALL FINISHES</b>				
D	15mm Thick gauged lime plaster trowelled smooth	SM	389		
E	Prepare and apply one undercoat and two finishing coats of silk vinyl emulsion paint	SM	389		
F	15mm Thick gauged lime plaster wood floated	SM	152		
G	300x300mm glazed wall tiles to approval.	SM	152		
	<b>CEILING FINISHES</b>				
H	Gauged lime plaster to soffits of suspended slab	SM	443		
J	Prepare and apply one undercoat and two finishing coats of silk vinyl emulsion paint	SM	443		
K	12mm Thick chipboard ceiling nailed on 50x50mm bearers secretive v-joint	SM	400		
L	Prepare and apply one undercoat and two finishing coats of premium emulsion paint to approval	SM	400		
	<b>Carried to Summary</b>				



PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Supply, install, test, commission and set to work the following.				
	All lighting fittings to be complete with lamp, control gear etc as applicable.				
1.1	<b>LIGHTING</b> Lighting points wired in 3 X 1.5mm <sup>2</sup> PVC SC copper cables in heavy gauge super high impact PVC conduits in walls and slabs, complete with switch boxes being;				
1.1.1a	Lighting point 1-way switched.	27	NO.		
1.1.1b	Lighting point 2-way switched.	12	NO.		
1.1.1c	Lighting point unswitched	6	NO.		
1.1.2	5 A white moulded switch plates as MK or approved equivalent: -				
	(a) 1-gang 1-way	13	NO.		
	(b) 1-gang 2-way	4	NO.		
	(c) 2-gang 1-way	2	NO.		
	(d) 2-gang 2-way	2	NO.		
	(e) intermediate	0	NO.		
1.1.3	Lighting fittings, complete with lamps of specified wattage and appropriate colour rendering: -				
1.1.3a	1 x 18W LED fluorescent batten fitting as Thorn or approved equivalent.	4	NO.		
1.1.3b	1 x 36W LED fluorescent batten fitting as Thorn or approved equivalent.	24	NO.		
1.1.3c	21W circular surface mounted light fitting	4	NO.		
1.1.3d	2 x 18W fully recessed fluorescent fitting with highly polished reflectors and louvred or approved equivalent.	0	NO.		
1.1.3e	100W fully recessed Tungsten bulkhead fitting as Thorn Cat. No. OLG 1100, or approved equivalent, complete with a PL 26 "White"	6	NO.		
Total C/F to Collection Page KAS.ELE 3					

PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.2	<b><u>POWER POINTS</u></b>				
	Supply, install, set to work and commission power points wired in 3 X 2.5mm <sup>2</sup> PVC SC CU cables in heavy gauge super high impact PVC conduits in walls and slabs, complete with socket outlet	22	NO.		
1.2.1	Twin 13A standard socket outlets, with safety shutters on both live and neutral and with neon light as MK or equal and approved.	20	NO.		
1.2.1 a	single 13A waterproof socket outlets, with safety shutters on both live and neutral and with neon light as MK or equal and approved.	2	NO.		
1.2.1 b	Outlet for fire alarm points comprising concealed PVC conduit, box, wiring in 3 x 1.5mm <sup>2</sup> screened fire-proof cable as FIREPIX or approved equivalent, and all accessories.	4	NO.		
1.2.2	Data Outlet for comprising concealed PVC conduit & box, wiring to be done by others	4	No.		
Total C/F to collection Page KAS .ELE 3					

PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.3	<b><u>POWER SUPPLY</u></b>				
1.3.1	8-way SP/N power Consumer unit complete with 100A integral isolator and all accessories including lockable cover as Multi-9, or approved equivalent.	1	NO.		
1.3.2	Submain cable as 3X10mm SQ PVC/ SC cable, copper from the main metre board to DBGF drawn in 38mm heavy gauge conduit.	20	LM		
1.3.3	Cable glands for the cable above item 1.3.2	2	NO.		
1.3.4	Cable lugs for the cable above item 1.3.2	8	NO.		
1.3.5	SP MCB in item no. 1.3.1 above. Being 6A,20A &32A	10	NO.		
1.3.6	63A TP MCB in the boards above	0	NO.		
1.3.7	Blanking plates for un-used spare ways	4	NO.		
1.3.8	Earthing for the three consumer unit above	1	Item		
1.4	<b><u>FIRE DETECTION SYSTEM</u></b>				
1.4.1	Supply and install Fire Alarm Panel as 'Menvier MF9302'.	1	No.		
1.4.2	Supply and install fire alarm points wired in 1.5mm <sup>2</sup> PVC SC cable in heavy gauge conduit in slabs and walls.	4	No.		
1.4.3	Supply and install smoke detectors as 'Menvier MID70'	4	No.		
1.4.4	Supply and install breakglass as 'Menvier MBG913' as shown on the drawings.	2	No.		
1.4.5	Supply and install alarm bell as 'Menvier MBM244	1	No.		
Total C/F BELOW					
<b>COLLECTION GROUND FLOOR</b>					<b>AMOUNT</b>
TOTAL FOR PAGE KAS. ELE 1					
TOTAL FOR PAGE KAS. ELE 2					
TOTAL FOR PAGE KAS ELE 3					
<b>Total C/F to SUMMARY PAGE</b>					

PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p><b><u>PROVISIONAL SUMS</u></b></p> <p><i>The following provisional items are to be measured on completion of the works and priced in accordance with rates contained in these bills of quantities or pro-rata hereto in whole if not required</i></p>				
A	Allow a sum of one hundred thousand for project management	Item			
B	Allow a contingency sum of One hundred thousand shillings only.	Item			
	Total PC and provisional sums carried to Grand				

PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>SUMMARY</b>				
A	OPENINGS				
B	STAIRCASE AND RAMP				
C	FINISHES				
D	SANITARY FITTINGS				
E	ELECTRICAL WORKS				
F	PROVISIONAL SUMS				
	<b>CARRIED TO GRAND SUMMARY</b>				

PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM	DESCRIPTION	UNIT	QTY		
	<b>OPENINGS</b>				
	<b>WINDOWS</b>				
	<i>The following purpose made steel casement windows furnished from 25x25*3mm SHS including plugging into masonry and all associated ironmongery.</i>				
A	Window size 3600x1000mm With 2No. Openable light of equal dimensions	No	4		
B	Ditto 2400x1000mm ditto	No	5		
C	Ditto 2700x1500mm ditto	No	9		
D	Ditto 1800x1500mm	No	1		
	<b>Painting and Decorations</b>				
	<i>approval:</i>				
E	General window surfaces	SM	68		
F	4mm thick clear glass and glazing with putty in panes not exceeding 0.10SM	SM	68		
	<b>Carried to collection</b>				

PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b><u>DOORS</u></b>				
A	Steel casement door primed with red oxide before fixing including door frame and necessary ironmongery for fixing and locking Door size 1100x2400mm high double leaf door	NO	7		
	<b><u>IRONMONGERY</u></b> <b><u>Supply and fix the following ironmongery with screws to match.</u></b>				
B	Rubber door stop fixed to concrete floor or masonry walling with and including 38mm rawl bolt	NO.	7		
	<b><u>Prepare and apply one undercoat and two finishing coats gloss paint on</u></b>				
C	General surfaces of steel doors	SM	38		
	<b><u>GLAZING</u></b>				
D	4mm thick clear glass and glazing with putty in panes not exceeding 0.10SM	SM	3		
	<b><u>Carried to collection</u></b>				
	<b><u>COLLECTION</u></b>				
	<b><u>From page 1</u></b>				
	<b><u>From page 2</u></b>				
	<b><u>Carried to summary</u></b>				

PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b><u>FINISHES</u></b>				
	<b><u>FLOOR FINISHES</u></b>				
A	32mm Thick cement sand screed to receive ceramic tiles	SM	32		
B	300x300mm Non slip ceramic tiles to floors	SM	32		
C	38mm Thick (24mm C&S backing and 14mm thick terrazzo layer) polished terrazzo paving to floors including dividing strips	SM	356		
	<b><u>WALL FINISHES</u></b>				
D	15mm Thick gauged lime plaster trowelled smooth	SM	331		
E	Prepare and apply one undercoat and two finishing coats of silk vinyl emulsion paint	SM	331		
	<b><u>CEILING FINISHES</u></b>				
F	12mm Thick chipboard ceiling nailed on 50x50mm bearers secretive v-joint	SM	414		
G	Prepare and apply one undercoat and two finishing coats of premium emulsion paint to approval	SM	414		
	<b><u>EXTERNAL FINISHES</u></b>				
H	Keying and pointing to masonry wall	SM	578		
J	15mm Thick gauged lime plaster trowelled smooth	SM	472		
K	Prepare and apply one undercoat and two finishing coats of silk vinyl emulsion paint	SM	472		
	<b>Carried to Summary</b>				

PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Supply, install, test, commission and set to work the following.				
	All lighting fittings to be complete with lamp, control gear etc as applicable.				
2.1	<b>LIGHTING</b> Lighting points wired in 3 X 1.5mm <sup>2</sup> PVC SC copper cables in heavy gauge super high impact PVC conduits in walls and slabs, complete with switch boxes being;				
2.1.1a	Lighting point 1-way switched.	26	NO.		
2.1.1b	Lighting point 2-way switched.	4	NO.		
2.1.1c	Lighting point unswitched	0	NO.		
2.1.2	5 A white moulded switch plates as MK or approved equivalent: -				
	(a) 1-gang 1-way	3	NO.		
	(b) 1-gang 2-way	5	NO.		
	(c) 2-gang 1-way	0	NO.		
	(d) 2-gang 2-way	2	NO.		
	(e) intermediate	0	NO.		
2.1.3	Lighting fittings, complete with lamps of specified wattage and appropriate colour rendering: -				
2.1.3a	1 x 18W LED fluorescent batten fitting as Thorn or approved equivalent.	5	NO.		
2.1.3b	1 x 36W LED fluorescent batten fitting as Thorn or approved equivalent.	26	NO.		
2.1.3c	21W circular surface mounted light fitting	0	NO.		
2.1.3d	2 x 18W fully recessed fluorescent fitting with highly polished reflectors and louvered or approved equivalent.	0	NO.		
2.1.3e	100W fully recessed Tungsten bulkhead fitting as Thorn Cat. No. OLG 1100, or approved equivalent, complete with a PL 26 "White"	0	NO.		
Total C/F to Collection Page KAS .ELE 6					

PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
2.2	<b><u>POWER POINTS</u></b>				
	Supply, install, set to work and commission power points wired in 3 X 2.5mm <sup>2</sup> PVC SC CU cables in heavy gauge super high impact PVC conduits in walls and slabs, complete with socket outlet	32	NO.		
2.2.1	Twin 13A standard socket outlets, with safety shutters on both live and neutral and with neon light as MK or equal and approved.	32	NO.		
2.2.1 a	single 13A waterproof socket outlets, with safety shutters on both live and neutral and with neon light as MK or equal and approved.	0	NO.		
2.2.1 b	Outlet for fire alarm points comprising concealed PVC conduit, box, wiring in 3 x 1.5mm <sup>2</sup> screened fire-proof cable as FIREPIX or approved equivalent, and all accessories.	5	NO.		
2.2.2	Data Outlet for comprising concealed PVC conduit & box, wiring to be done by others	22	No.		
Total C/F to collection Page KAS .ELE 6					

PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
2.3	<b>POWER SUPPLY</b>				
2.3.1	4-way TP/N power distribution board complete with 100A TP/N integral isolator and all accessories including lockable cover as Multi-9, or approved equivalent.	1	NO.		
2.3.2	Submain cable as 5X10mm SQ PVC/ SC cable, copper from the main metre board drawn in 50mm heavy gauge conduit.	60	LM		
2.3.3	Cable glands for the cable above item 2.3.2	2	NO.		
2.3.4	Cable lugs for the cable above item 2.3.2	8	NO.		
2.3.5	SP MCB in item no. 2.3.1 above. Being 6A,20A &32A	10	NO.		
2.3.6	63A TP MCB in the boards above	0	NO.		
2.3.7	Blanking plates for un-used spare ways	6	NO.		
2.3.8	Earthing for the three boards above	1	Item		
2.4	<b>FIRE DETECTION SYSTEM</b>				
2.4.1	Supply and install Fire Alarm Panel as 'Menvier MF9302'.	0	No.		
2.4.2	Supply and install fire alarm points wired in 1.5mm <sup>2</sup> PVC SC cable in heavy gauge conduit in slabs and walls.	4	No.		
2.4.3	Supply and install smoke detectors as 'Menvier MID70'	4	No.		
2.4.4	Supply and install breakglass as 'Menvier MBG913'	2	No.		
2.4.5	Supply and install alarm bell as 'Menvier MBM244'	1	No.		
Total C/F BELOW					
<b>COLLECTION FIRST FLOOR</b>					<b>AMOUNT</b>
TOTAL FOR PAGE KAS. ELE 5					
TOTAL FOR PAGE KAS. ELE 6					
TOTAL FOR PAGE KAS. ELEC 7					
<i>Total FOR 2 FLOORS TO SUMMARY PAGE</i>					

PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p><b><u>PROVISIONAL SUMS</u></b></p> <p><i>The following provisional items are to be measured on completion of the works and priced in accordance with rates contained in these bills of quantities or pro-rata hereto in whole if not required</i></p>				
A	Allow a sum of one hundred thousand for project management	Item			
B	Allow a contingency sum of One hundred thousand shillings only.	Item			
	Total PC and provisional sums carried to Grand				

PROPOSED 2 STOREY CLASSROOM CUM ADMIN BLOCK AT KASARINI SECONDARY SCHOOL.

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>SUMMARY</b>				
	<b>OPENINGS</b>				
	<b>FINISHES</b>				
	<b>ELECTRICAL WORKS</b>				
	<b>PROVISIONAL SUMS</b>				
	<b>CARRIED TO GRAND SUMMARY</b>				

**MAIN SUMMARY**

ITEM	DESCRIPTION	TENDERER'S AMOUNT	OFFICIAL USE ONLY
1	Particular Preliminaries		
2	General Preliminaries		
3	Ground Floor		
4	First Floor		
<b>TOTAL CARRIED TO FORM OF TENDER</b>			

Amount in words.....  
 .....

CONTRACTORS NAME:  
 -----

ADDRESS :  
 -----

SIGNATURE : \_\_\_\_\_ DATE : \_\_\_\_\_

WITNESS'S NAME :  
 -----

ADDRESS :  
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SIGNATURE : \_\_\_\_\_ DATE : \_\_\_\_\_