



MINISTRY OF LAND, HOUSING AND URBAN  
DEVELOPMENT

*DIRECTORATE OF PUBLIC WORKS*

Telephone: 020-8040911  
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Email:

Sub-County Works Officer,  
Kajiado North/West.  
P.O. Box 78-00208,  
NGONG HILLS.

01/June/2022

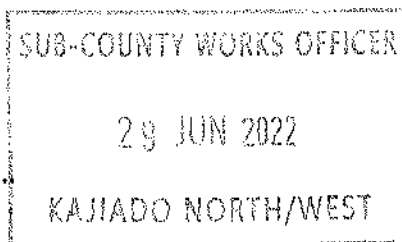
The NG- C.D.F Fund Manager,  
Kajiado North Constituency

**RE: VARIATION FOR CHANGE OF DESIGN DUE TO THE GRADIENT AND  
TOPOGRAPHY OF SITE AT EMPAKASE SECONDARY SCHOOL.**

Attached herewith are re-measurements of the above mentioned project.  
There is variation increase of **Kshs 461,970.00** for your approval, since the contractor has  
done the works as directed.

D.K. Ndugo

*Sub-County Works Officer*  
Kajiado North/West.

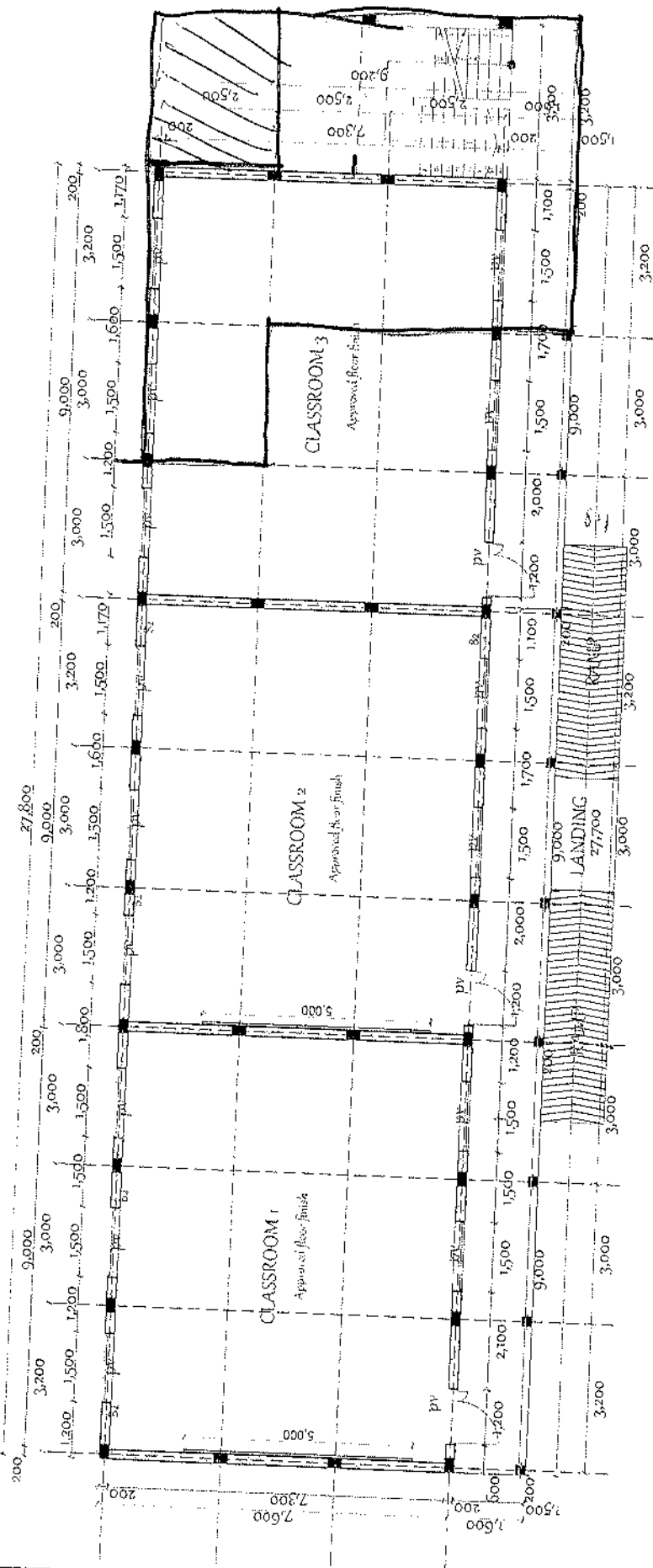


ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>PROPOSED CONSTRUCTION OF CONCRETE RAMP SIZE 12.5 X 1.8 METERS AT EMPAKASE SEC SCH</u></b>				
	<b><u>SUBSTRUCTURE RAMP</u></b>				
A	Excavate 150mm average top vegetable soil	32	SM	100	3,200.00
B	Excavate to remove soil average depth 1000mm and cart away	32	CM	300	9,600.00
C	Excavate 600mm wide foundation trenches commencing from stripped level average depth 1.5m	6	CM	300	1,800.00
D	50mm foundation concrete blinding	10	SM	400	4,000.00
E	Concrete 1:2:4 in strip foundation	1.5	CM	10500	15,750.00
F	200mm thick substructure walling	10	SM	1400	14,000.00
G	Backfill excavated material around foundation trenches	6	CM	200	1,200.00
H	Approved murrum filling to make up levels	7	CM	500	3,500.00
J	300mm thick hardcore filling	7	SM	400	2,800.00
K	50mm thick murrum blinding	23	SM	100	2,300.00
L	Anti termite on murrum blinding	23	SM	250	5,750.00
M	500G polythene DPM	23	SM	250	5,750.00
N	150x25mm timber form work	16	LM	75	1,200.00
O	BRC mesh A142	23	SM	300	6,900.00
P	100mm thick concrete slab	23	SM	1050	24,150.00
Q	3 ply DPC	13	LM	200	2,600.00
R	12mm plinth rendering	13	SM	400	5,200.00
<b>CARRIED TO COLLECTION</b>					<b>109,700.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>SUBSTRUCTURE RAMP CONT..</u></b>				
A	Prepare and apply 3 coats oil paint to rendered area	13	SM	350	4,550.00
	<b><u>Reinforcements</u></b>				
B	D 10	30	KG	140	4,200.00
C	D 8	23	KG	140	3,220.00
D	Formwork to side of stip foundation	5	LM	400	2,000.00
	<b><u>Carried to Collection</u></b>				13,970.00
	<b><u>COLLECTION</u></b>				
	Brought from page 1				109,700.00
	Brought from above				13,970.00
<b>TOTAL FOR SUB STRUCTURE CARRIED TO SUMMARY</b>					123,670.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u><b>SUPERSTRUCTURE RAMP</b></u>				
A	200mm thick superstructure stone walling <u>Concrete</u>	18	SM	1400	25,200.00
B	100mm thick concrete 1:2:4 with reinforcements	1	CM	10,500	10,500.00
C	Form work to side of concrete <u>Finishes</u>	28	LM	400	11,200.00
D	12mm plaster to walls	40	SM	250	10,000.00
	40mm floor screed	23	SM	400	9,200.00
E	Prepare and apply 3 coats oil paint to rendered area	40	SM	350	14,000.00
<b>TOTAL FOR SUPERSTRUCTURE CARRIED TO SUMMARY</b>					<b>80,100.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>WALK WAY</u>				
	<u>Excavation</u>				
A	Excavation in hard rock	58	SM	1700	98,600.00
	<u>Superstructure</u>				
B	200mm thick substructure walling	18	SM	1400	25,200.00
C	Approved murrum filling to make up levels	45	CM	500	22,500.00
D	200mm thick superstructure stone walling	28	SM	1400	39,200.00
	<u>Concrete</u>				
E	100mm thick concrete 1:2:4 with reinforcements	1	CM	10,500	10,500.00
F	Form work to side of concrete	55	LM	400	22,000.00
	<u>Finishes</u>				
G	12mm plaster to walls	67	SM	250	16,750.00
H	Prepare and apply 3 coats oil paint to rendered area	67	SM	350	23,450.00
TOTAL FOR SUPERSTRUCTURE CARRIED TO SUMMARY					258,200.00



***Variation Enoomatasian Sec Sch***

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>PROPOSED CONSTRUCTION OF ADDITIONAL COLUMNS FOR RAMP AT ENOOMATASIANI MIXED DAY.</u></b>				
	<b><u>DEMOLITION</u></b>				
A	Demolish of manhole and drainage system and cart away debris	12	LM	1000	12,000.00
B	Replacing of drainage system with assorted accessories including bends, connectors and connecting to the existing system		Item		8,000.00
	<b><u>EXCAVATIONS</u></b>				
C	Excavate 200mm deep to remove vegetable soil and cart away debris	10	CM	100	1,000.00
D	Excavate for column not exceeding 1.5 meter deep	24	CM	300	7,200.00
E	Ditto column bases	8	CM	300	2,400.00
	<b><u>DISPOSAL</u></b>				
F	Return, fill and ramp imported excavated material around column	16	CM	100	1,600.00
G	Load, wheel and cart away from site surplus excavated material and deposit in approved dumping area	8	CM	300	2,400.00
	<b><u>CONCRETE WORKS</u></b>				
H	1:4:8 concrete blinding	2	SM	1700	3,400.00
J	1:2:4 concrete in column and column bases	8	CM	11000	88,000.00
K	Ditto concrete in general	1	CM	11000	11,000.00
L	Ditto in beam	3	CM	11000	33,000.00
<b><i>Carried to collection.</i></b>					<b>170,000.00</b>

1var/ Enoo mix day Sec

**Variation Enoomatasian Sec Sch**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b><u>FLOOR SLAB BELOW STAIRCASE</u></b>					
A	Make up levels for ground floor slab	30	SM	300	9,000.00
B	Backfill with approved murrum blinding	30	SM	450	13,500.00
C	Damp proof course	30	SM	300	9,000.00
D	Antitermite	30	SM	250	7,500.00
E	BRC A142	30	SM	250	7,500.00
F	1:2:4 concrete floor slab	30	SM	1700	51,000.00
<b><u>REINFORCEMENTS</u></b>					
G	16 mm diameter bar	412	KG	130	53,560.00
H	12mm diameter bar	181	KG	130	23,530.00
J	8mm diameter bar	104	KG	130	13,520.00
<b><u>FORMWORK</u></b>					
K	Form work to column bases	15	SM	200	3,000.00
L	Ditto to column sides	20	SM	200	4,000.00
M	Ditto to beam and suspended slab	35	SM	200	7,000.00
<b><u>PLASTER</u></b>					
N	20mm thick cement and sand plaster to column	20	SM	250	5,000.00
O	Ditto to suspended slab	Nil		Nil	
P	Ditto beams	35	SM	250	8,750.00
<b><i>Carried to collection.</i></b>					<b>215,860.00</b>

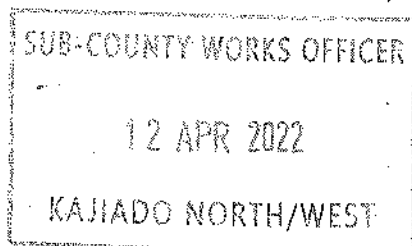


**Variation Enoomatasian Sec Sch**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>PAINTING</u></b>				
	<i>Prepare and apply three coats of plastic emulsion paint</i>				
A	Plastered column	11	SM	200	2,200.00
B	Ditto beams	12	SM	200	2,400.00
C	Ditto suspended slab	12	SM	200	2,400.00
	<b>Carried to Collection</b>				<b>7,000.00</b>
	<b><u>COLLECTION</u></b>				
	Brought forward from page 1				170,000.00
	Brought forward from page 2				215,860.00
	Brought down from above				7,000.00
	ADD 16% VAT				62,857.60
<b>TOTAL FOR VARIATION CARRIED TO SUMMARY</b>					<b>455,717.60</b>

Amount in words:

DATE: ..... SIGNATURE 



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>EXTRA WORKS DONE AT KERARAPON PRIMARY SCHOOL.</u></b>				
	<u>Concrete works</u> <u>vibrated reinforced concrete grade 20/20</u> <u>(1:2:4:) in:</u>				
B	Columns	3	CM	10000	30,000.00
	<u>Sawn formwork to:</u>				
D	sides columns	5	SM	300	1,500.00
	<u>Steel reinforcement as described including</u> <u>cutting to length, bending, hoisting and fixing</u> <u>including all necessary tying wires and</u> <u>spacing blocks(all provisional)</u>				
E	8mm diameter tensile bars	162	KG	120	19,440.00
G	12mm diameter	378	KG	120	45,360.00
	<u>Backfilling</u>				
	Approved murrum filling to make up levels well compacted with water	35	CM	500	17,500.00
	<u>Walling</u>				
	<u>Approved Natural foundation stone walling in</u> <u>cement and sand (1:3) mortar and including</u> <u>reinforcing with 20 x 3mm thick hoop iron in</u> <u>every alternate course.</u>				
J	200 mm thick	38	SM	1000	38,000.00
CARRIED TO SUMMARY					151,800.00

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>PLINTH RENDER</u></b>				
A	12mm thick, wood floated to foundation wall	38	SM	100	3,800.00
	<b><u>Painting and Decoration</u></b>				
	<i><u>Prepare and apply three coats of glossy oil paint, colour to architect's approval to:-</u></i>				
G	Plastered walls	38	SM	150	5,700.00
	<b><u>Balustrading &amp; Rails</u></b>				
A	1200mm high mild steel balustrading and railing 40x40x3mm thick R.H.S baluster fish tailed and built into floor at 250mm centres including varnished ex 50x25mm RHS TUBES handrail welded	8	LM	2500	20,000.00
	<i><u>Prepare and apply three coats gloss oil to:</u></i>				
B	General surfaces of metal	20	SM	150	3,000.00
<b>CARRIED TO SUMMARY</b>					<b>32,500.00</b>

*Kerarapon Primary School .*

ITEM	DESCRIPTION	PAGE No.	AMOUNT
	<u>COLLECTION</u>		
A	R.C SUPERSTRUCTURE	1	151,800.00
B	WINDOWS	2	32,500.00
TOTAL FOR EXTRA WORKS AT KERARAPON PRIMARY SCHOOL			184,300.00

**FINAL ACCOUNT FOR REPAIRS AND RENOVATION AT OLKERI PRIMARY SCHOOL**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>FINAL ACCOUNT</u></b>				
A	Remove existing roof covering as directed	460	SM	150	69,000.00
	<b><u>NEW ROOFING</u></b>				
B	Supply and fix gauge 30 prepainted roof covering to existing purlin with preservative	460	SM	700	322,000.00
C	ditto ridge capping	50	LM	600	30,000.00
D	supply and fix 200x25mm wrot timber fascia board	100	LM	150	15,000.00
	<b><u>PAINTING</u></b>				
E	Prepare and apply three coats of gloss oil paint to fascia board(200-300mm girth)	100	LM	250	25,000.00
	<b><u>WINDOWS AND GLAZING</u></b>				
F	Enlarge 5 No. windows to measure 2500mm length and 1000mm high		ITEM	12500	12,500.00
G	Enlarge 5 No. windows to measure 2100mm length and 1000mm high		ITEM	12500	12500
H	Reduce 10 No. windows to measure 1100mm length and 600mm high		ITEM	25000	25000
J	4mm thick clear sheet glass with putty to windows	35	SM	1400	49,000.00
	<b><u>Prepare and apply three coats of plastic emulsion paint to:-</u></b>				
K	Windows	70	SM	250	17,500.00
L	Doors	20	SM	250	5,000.00
<b>CARRIED TO COLLECTION</b>					<b>582,500.00</b>

# FINAL ACCOUNT FOR REPAIRS AND RENOVATION AT OLKERI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>EXTERNAL FINISHES</b>				
	<b>RENDERING TO WALLS</b>				
A	20mm thick cement and sand rendering to external wall	325	SM	350	113,750.00
B	Prepare and apply three coats of plastic emulsion paint to rendered walls	325	SM	250	81,250.00
	<b>FLOOR SCREED</b>				
C	Hack off 40mm thick cement and sand floor screed and cart away debris	175	SM	150	26,250.00
	<b>NEW SCREED</b>				
D	40mm thick cement and sand floor screed with red oxide	175	SM	400	70,000.00
	<b>WALLING</b>				
E	200mm thick machine cut stone in cement and sand mortar	130	S.M	900	117,000.00
	<b>PLASTER</b>				
E	Hack off 20mm plaster and cart away debris	75	SM	150	11,250.00
F	20mm thick plaster internally	75	SM	350	26,250.00
	<b>INTERNAL PAINTING</b>				
A	Prepare and apply three coats of plastic emulsion paint to plastered walls	405	SM	250	101,250.00
B	Prepare and apply three coats of gloss/oil paint to 75mm diameter pipe 3000mm long	15	NO	250	3,750.00
	<b>GUTTERS</b>				
K	Supply and fix 150 x 200mm mild steel box gutter	90	LM	350	31,500.00
L	100 mm diameter mild steel down pipe	36	LM	300	10,800.00
<b>CARRIED TO COLLECTION</b>					<b>593,050.00</b>

# FINAL ACCOUNT FOR REPAIRS AND RENOVATION AT OLKERI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELECTRICAL WORKS</u></b>				
A	Fix and reinstall electrical cables and all lighting points		ITEM	62500	62,500.00
	<b><u>TIMBER AND IRON SHEET</u></b>				
B	Remove and replace assorted timber of 100x50 and 75x 50	95	LM	450	42,750.00
C	Supply and fix transparent box profil iron sheet	30	SM	2500	75,000.00
	<b><u>STEEL GRATING</u></b>				
D	Supply and fix assorted steel bars along the walk way		Item	45000	45,000.00

**CARRIED TO COLLECTION**

**225,250.00**

ITEM	DESCRIPTION		AMOUNT
	<b>SUMMARY</b>		
	Brough forward from pg 1		582,500.00
	Brough forward from pg 2		593,050.00
	Brough down from above		225,250.00
	<b>TOTAL FOR RENOVATION</b>	<b>KSHS.</b>	<b>1,400,800.00</b>
	Add project management expenses	<b>KSHS.</b>	<b>30,000.00</b>
	<b>ADD 16 %</b>	<b>26 APR 2022</b>	<b>228,928.00</b>
	<b>TOTAL FOR FINAL ACCOUNT CARRIED TO SUMMARY</b>		<b>1,659,728.00</b>



KAJIADO NORTH NG-CDF

National Government Constituencies Development Fund  
Kajiado North Constituency  
P.O Box 72-00208  
NGONG HILLS  
Cell:0740-046701  
Email: [cdfkajiadonorth@ngcdf.go.ke](mailto:cdfkajiadonorth@ngcdf.go.ke) | Website: [www.ngcdf.go.ke](http://www.ngcdf.go.ke)

## **SITE INSPECTION REPORT.**

**DATE: 15/04/2021**

### **MEMBERS PRESENT:**

1. SIMON GATHERU – CHAIRMAN NG-CDF
2. EDWIN KARANI – FUND ACCOUNT MANAGER
3. JEDIDAH MARIMBET – NG-CDF SECERTARY
4. HEZRON KIMANI – CLERK OF WORKS
5. BRAYON MUREMI – MEDIA PERSON
6. KENNETH NGANGA – HEAD TEACHER OLKERI PRIMARY.

**PROJECT: PROPOSED REPAIRS AND RENOVATION OF 5No. CLASSROOM AT OLKERI PRIMARY SCHOOL - KAJIADO NORTH**

### **PROJECT STATUS.**

1. Works completed
2. 100% complete

### **OBSERVATION**

Good workmanship

Iron sheet done as per the specifications given  
Transparent iron sheet fixed to allow proper lighting into classrooms  
Windows raised to specified level for proper fixing of soft boards  
Rotten timber of 100mm and 75mm by 50mm respectively replaced  
Steel grating done with appropriate bars and as per the instructions given

### **RECOMMENDATION**

Re-measurements to be done and get the exact figure of the final works done  
Proceed and pay the contractor less 10% retention of the final figure

Report prepared by:

H.KIMANI

.....  
CLERK OF WORKS,  
KAJIADO NORTH.