



**MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN
DEVELOPMENT
STATE DEPARTMENT FOR PUBLIC WORKS
REGIONAL WORKS OFFICE**

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NAIROBI REGION
P.O. BOX 42267
NAIROBI

Ref No: D106/GEN/CDF/RA/02

Date: 9th January, 2023

**The Chief Executive Officer,
NG-CDF Board,
P.O Box 46682-00100,
NAIROBI**

**REF: PROPOSED CONSTRUCTION OF ONE-STOREY BUILDING OF
CLASSROOMS, ADMINISTRATION BLOCK AND A 4-DOOR ABLUTION
BLOCK AT KAGIRA MIXED SECONDARY SCHOOL IN DAGORETTI
SOUTH CONSTITUENCY.**

The above subject matter refers.

Forwarded herewith please find the estimates for extra works for your perusal and necessary
action.

**Arch. Ayumba M.C
FOR REGIONAL ARCHITECT
NAIROBI REGION**

KAGIRA SECONDARY SCHOOL VARIATIONS

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>BILL NO 1</u>				
	<u>ELEMENT NO 1</u>				
	<u>BACK FILLING MATERIAL</u>				
A	1800-1500-700mm respectively imported filling material including depositing levelling and compacting in layers of 200 mm maximum thickness	950	cm	950	902,500.00
	<u>Reinforcement</u>				
	Bars High Yieldsteel cold worked to BS4461 including bends and hooks tying wires distances blocks of assorted diameter:				
B	ditto 16mm to columns stubs	650	kgs	200	130,000.00
C	ditto 8mm to columns links	270	kgs	200	54,000.00
	<u>FORMWORK</u>				
	Sawn form work to insitu concrete as described to column stubs				
D		96	sm	600	57,600.00
	<u>CONCRETE</u>				
E	Vibrated Reinforced concrete : 1: 1.5: 3 / 25-20 mm ditto stubs columns	8	cm	14,045	112,360.00
	<u>Foundation walling</u>				
F	200 mm thick approved local natural stone roughly squared to foundation walling bedding and jointing in cement sand 1:3 mortar and reinforced with and including 20 swg x 25mm w/d hoopiron in every alternative course	374	sm	1,700	635,800.00
	<u>Insitu finishing</u>				
G	14 mm thick 2no coat workcement sand (1:3) render wood floated to concrete on blockwork base to walls externals Prepare and supply three coats black butiminous paint on	138	sm	450	62,100.00
H	Rendered plinth Externally	138	sm	450	62,100.00
	<u>WALL TILES</u>				
I	200x300mm ceramic wall tiles	188	sm	1,800	338,400.00
	<i>Carried to collection</i>				2,354,860.00

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P.O. Box 42267 - 00100, NAIROBI

KAGIRA SECONDARY SCHOOL VARIATIONS

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	DESCRIPTION			RATE	
	BILL NO.1				
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES (RAMP)</u>				
	<u>Excavations and earth works</u>				
A	Clear Site of all shrubs and undergrowth including grubbing up of roots and dipose as directed	66	sm	100	6,600.00
B	Excavate vegetable soil average 200mm deep to remove vegetable soil and cart away as directed	66	sm	100	6,600.00
C	Excavate oversite to reduce levels commencing from stripped level exceeding 1.50 metres deep	66	sm	200	13,200.00
	<u>Disposal</u>				
D	Return, fill-in and rum selected excavated material around the foundation	66	cm	400	26,400.00
E	Remove and cart away surplus excavated materials	66	cm	400	26,400.00
	<i>Carried to collection</i>				79,200.00

KAGIRA SECONDARY SCHOOL VARIATIONS

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUBSTRUCTURES (ALL PROVISIONAL) CONT'D</u>				
F	300mm Imported hardcore filling including depositing levelling and compacting in layers of 150mm maximum thickness n.e 1.5 mm.	21	cm	1,700	35,700.00
G	50mm thick Quarry dust blinding to surfaces of hardcore :rolled smooth to receive polythen sheeting (m.s)	66	sm	300	19,800.00
	<u>Antitermite treatment</u>				
H	PREMISE 200CC' or other equal and approved insecticide with a ten-years guarantee to surfaces of fill and tops of foundations	66	sm	250	16,500.00
	<u>Damp proofing</u>				
I	1000 gauge polythene or other equal and approved plastic sheet damp proof memebrane laid over blinding (measured nett- allo for laps)	66	sm	250	16,500.00
	<u>In-situ concrete</u>				
	<u>Mass concrete (1.4.8/38-38 mm aggregate)</u>				
J	50mm thick mass concrete class x (1:4:8) to bottoms of foundations	2	cm	5,500	11,000.00
	<u>Vibrated reinforced concrete ; 1:1.5:3/ 25-20mm);as decribed in</u>				
K	Foundations in trenches irrespective of thickness	5	cm	8,300	41,500.00
L	150mm thick bed	66	sm	2,100	138,600.00
	<i>Carried to collection</i>				279,600.00

KAGIRA SECONDARY SCHOOL VARIATIONS

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
M	<u>Mesh reinforcement ; B.S. 4483</u> Reference A142 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	66	sm	900	59,400.00
N	<u>Sawn formwork to insitu concrete as described:-</u> Edges of ground floor slab; 75 to 150mm wide	56	lm	200	11,200.00
O	<u>Foundation Walling</u> 200mm thick approved local natural stone; roughly squared to foundation walling; bedding and jointing in cement sand (1:3) mortar and reinforced with and including 20swg x 25 mm wid hoopiron in every alternate course	66	sm	1,700	112,200.00
P	<u>Insitu finishings</u> 14mm thick 2 No. coatwork cement sand (1:3) render; wood floated to concrete or blockwork base to walls; external	66	sm	450	29,700.00
Q	<u>Prepare and apply three coats black bituminous paint on:-</u> Rendered plinths, externally.	66	sm	450	29,700.00
<i>Carried to collection</i>					242,200.00

KAGIRA SECONDARY SCHOOL VARIATIONS

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>STAIRS/RAMP AND BALCONY HANDRAILS</u> Standard sections purpose made 1200mm high 50mmx50mmx2mm SHS for main poles and bottom, intermediate and top rail & 25mmx25mmx2mm intermideate subs @150mm c/c steel Handrails and Balcony rails.	64	sm	6,200	396,800.00
B	<u>TIMBER DOOR</u> <u>Timber Doors</u> 1200x2400mm high solid core mahogany laminated timber flush doors	2	no	14,000	28,000.00
C	<u>DOOR FRAME</u> <u>mahogany door frames; selected and kept clean</u> 150 x 50mm thick frames; with 2No.labours and countersunk screws	14	lm	460	6,440.00
	50 x 15mm architrave	14	lm	200	2,800.00
	25mm Dia quadrant beading	14	lm	200	2,800.00
D	<u>Urinal Range</u> Supply and install "Modular" slab urinal range without divisions size 6200mm complete with back slabs end slabs, 14litres automatic cistern stainless steel flush pipes, fitting including fixing and connecting water pies and to the sewer – line.	1	no	250,000	250,000.00
E	<u>WATER CLOSET- FOR THE CHALLENGED</u> Low level wash down WC suite as Twyfords 'CLASSIC' comprising of the following: - WC bowl bottom outlet ref. No.CC 1138WH, Heavy duty black Seat and cover, The suite to be supplied complete with valveless cistern fittings including siphon, ½" side inlet ball valve, ¼" side overflow, plastics flush bend, inlet connection and reversible chrome plated cistern lever and cistern supports.2no. 600mm Stainless steel grab rails to be installed to details.	2	no	12,000	24,000.00
<i>Carried to collection</i>					<i>710,840.00</i>

KAGIRA SECONDARY SCHOOL VARIATIONS

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	From page BW/1				2,354,860.00
	From pageBW /2				79,200.00
	From page BW/3				279,600.00
	From page BW/4				242,200.00
	From page BW/5				710,840.00
	<i>TOTAL CARRIED TO SUMMARY</i>				<i>3,666,700.00</i>

KAGIRA SECONDARY SCHOOL VARIATIONS

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 2				
	OVERHEAD WATERTANK SLAB AND TANK				
	<u>In situ concrete; reinforced; (1:1.5:3) class 25 / (20mm); vibrated</u>				
A	200 mm thick suspended floor slab.	18	sm	2,100	37,800.00
B	ditto to suspended beams	3	cm	14,045	42,135.00
	Reinforcement				
	<u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks of assorted diameter</u>				
C	16mm High tensile square twisted bars	125	kgs	200	25,000.00
D	10mm Ditto	184	kgs	200	36,800.00
E	8mm Ditto	88	kgs	200	17,600.00
	<u>Sawn formwork to insitu concrete as described:-</u>				
F	Sides and soffits of beam Edge of open strings of staircase 225 to 300mm including	12	sm	600	7,200.00
G	To soffits of suspended slab	12	sm	1,000	12,000.00
H	Edges of suspended slab, 75 to 150mm wide	15	lm	200	3,000.00
I	Supply and install a plastic water tank of capacity 5,000 litres . The tank to be assembled complete with medium - pressure ball valve inlet, outlet connections and drain cock and all other connections including ball valve and Float. One tank shall be mounted on a platform/tower (measured elsewhere) and the other on the ground.	1	no	70,000	70,000.00
J	Water pump 0.75kW as "Pedrollo PKm80" or aproved equivalent	1	no	14,000	14,000.00
K	Controller for Water pump single phase 1.5bar as "Pedrollo easy small" or aproved equal	1	no	6,000	6,000.00
TOTAL FOR WATERTANK SLAB					271,535.00

KAGIRA SECONDARY SCHOOL VARIATIONS

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 3</u>				
	<u>PARAPET WALL</u>				
	<u>Natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20 swg x 25 mm wide hoopiron; external</u>				
A	200 mm thick reinforced with hoop iron after every two alternate courses to ground floor	142	sm	1,700	241,400.00
B	600 x 300 x 50mm thick concrete on cement sand mortar well aligned and jointed.	101	lm	2,000	202,000.00
	<u>External finishes</u>				
	<u>Render; 18mm thick, 1 No. coatwork of cement and sand (1:3); wood floated to concrete or blockwork base generally to: -</u>				
	<u>Extra over walling for smooth chisel dressing with flush pointed vertical joints and recessed horizontal joints</u>				
	<u>Extra over walling for smooth chisel dressing with flush pointed vertical joints and recessed horizontal joints</u>				
C	Plastered walls surfaces	148	sm	450	66,600.00
	<u>Painting and decorations</u>				
	<u>Prepare and apply three coats of first quality plastic emulsion paint to: -</u>				
D	Plastered walls surfaces	148	sm	350	51,800.00
	TOTAL FOR PARAPET WALL				561,800.00

KAGIRA SECONDARY SCHOOL VARIATIONS

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
SUMMARY					
ELEMENT NO.	TITLE				
1	BW 1				3,666,700.00
2	WATER TANK SLAB				271,535.00
3	PARAPET WALL				561,800.00
	TOTAL BUILDERS WORKS TO GRAND SUMMARY				<u>4,500,035.00</u>

REGIONAL WORKS OFFICER
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 STATE DEPARTMENT OF PUBLIC WORKS
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**PROPOSED CONSTRUCTION OF A PERIMETER WALL FOR KIRIGU PRIMARY SCHOOL IN
DAGORETTI SOUTH CONSTITUENCY**

ITEM	DESCRIPTION	AMOUNT
A	<p>BLASTING OPERATIONS</p> <p>Blasting will only be allowed with the express permission of the PROJECT MANAGER in writing. All blasting operations shall be carried out at the Contractor's sole risk and cost in accordance with any Government regulations in force for the time being, and any special regulations laid down by the PROJECT MANAGER governing the use and storage of explosives.</p>	
B	<p>MATERIALS ARISING FROM EXCAVATIONS</p> <p>Materials of any kind obtained from the excavations shall be the property of the Government. Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the PROJECT MANAGER Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.</p>	
C	<p>PROTECTION OF THE WORKS.</p> <p>Provide protection of the whole of the works contained in the Bills of Quantities, including casing , casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the PROJECT MANAGER and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of cost to the Government.</p>	
D	<p>REMOVAL OF RUBBISH ETC.</p> <p>Removal of rubbish and debris from the Buildings and site as it accumulates and at the completion of the works and remove all plant, scaffolding and unused materials at completion.</p>	
E	<p>WORKS TO BE DELIVERED UP CLEAN</p> <p>Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER</p>	
	<i>Carried to collection</i>	