

**THE PROPOSED CONSTRUCTION OF 6 NO.
STAIRS AT NEW KIHUMBUINI PRIMARY SCHOOL**

BY

WESTLANDS NG-CDF

BILLS OF QUANTITIES

PREPARED BY

HOUSING AND URBAN RENEWAL SUB-SECTOR

NAIROBI CITY COUNTY

P.O.BOX 30075

NAIROBI

May-24

Item	Description	Unit	Quantity	Rate	Amount
SECOND FLOOR					
6NO. CLASSROOMS AND 2 STAIRCASES					
ELEMENT NO.1 REINFORCED CONCRETE SUPERSTRUCTURE (FRAME)					
A	Demolish the existing roof covering and store on site as directed	Item			
Install concrete grade 25/29 including vibrating around rebar/corers.					
B	Columns	CM	24		
C	Beams	CM	18		
D	Staircase Waist and steps	CM	8		
E	Staircase landing	SM	12		
Reinforcements					
High tensile steel reinforcement to B.S. 4449 and B.S. 4466 with and including all necessary tying wires and spacer blocks					
F	8mm diameter bars	KGS	1,966		
G	10mm diameter bars	KGS	360		
H	12mm diameter bars	KGS	1,558		
I	16mm diameter bars	KGS	2,363		
Sawn Formwork to:-					
J	Sides and soffits of beams.	SM	95		
K	Vertical sides of columns.	SM	288		
L	Soffits of landings.	SM	9		
M	Sloping soffits of staircase	SM	18		
N	Riser 75-150mm girth	LM	60		
O	Edges of landings 75-150mm girth.	LM	22		
Total for R.C. Superstructures Carried to Summary Page					

Item	Description	Unit	Quantity	Rate	Amount
ELEMENT NO. 2 WALLING					
200mm thick machine dressed masonry walling bedded, jointed and pointed in cement/sand (1:3) mortar to architects approval					
A	200mm thick External wall	SM	278		
B	Ditto Internal walls	SM	81		
Decorative Clay Grille Bricks					
C	150mm thick Decorative "Primpel" clay brick wall	SM	54		
Total for Walling Carried to Summary Page					

Item	Description	Unit	Quantity	Rate	Amount
ELEMENT NO. 3					
ROOFING CONSTRUCTION AND RAINWATER GOODS					
Wall plate in first grade sawn cecured cypress					
A	100x50mm wall plate on boom with 12mm cement/sand (1:3) mortar bed and hoop iron straps (m/s)	LM	182		
B	Make mortice in concrete beam for anchoring hoop iron straps.	NO	60		
C	20x2mm thick hoop iron strapping 800mm long once folded, cut into beams and other ends run over and lapped over timber with a adequate nailing	NO	60		
Covering					
D	ITS 28 gauge Profiled roofing sheets and fixed on timber purlins (m/s) with adequate end and side laps	SM	661		
E	Ditto matching ridge cap	LM	54		
Trusses					
The following double pitched sawn cypress cecured graded timber.					
F	150 x 50mm tie beam	LM	326		
G	150x 50mm king post	LM	90		
H	150 x 50mm struts and ties	LM	422		
I	100 x 50mm purlins	LM	488		
J	150 x 50mm rafter	LM	270		
Total carried to Collection for Roofing					

Item	Description	Unit	Quantity	Rate	Amount
ROOFING Cont.....					
Wrot Ist grade cypress in:					
A	250 x 25mm fascia/verge board with one beveled edge and fixed to ends of rafters and purlins	LM	156		
Decoration and painting					
Knot prime, stop, destain, prepare and apply one undercoat and two finishing gloss oil paint to:					
B	Surfaces of timber 200-300mm girth	LM	158		
RAINWATER GOODS					
C	150x150mm Plastic rain water downpipe; holderbats at 800mm (maximum) centres on wall.	LM	152		
D	Ditto gutter; holderbats at 1200mm (maximum) centres on fascia board	LM	91		
E	Extra over ditto for 800 mm swan neck offset	NO	12		
F	Ditto for shoe	NO	12		
Total carried to Collection for Roofing					

Item	Description	Unit	Quantity	Rate	Amount
COLLECTION FOR ROOFING CONSTRUCTION AND RAINWATER GOODS					
Brought forward from page 2nd/3					
Brought forward from page 2nd/4					
Total for Roof Construction and Rain Water Goods carried to Summary Page					

Item	Description	Unit	Quantity	Rate	Amount
ELEMENT NO. 4 WINDOWS					
Steel casement window; purpose made standard metal casement sections, complete with End sections, permanent ventilators comprising 7 bar assure and metal hood, operable casements; coupling mullions; approved ironmongery; as per schedule. Pattern as shown in the Appendix to Architects approval					
A	Window size: 2700 x 1500mm high	NO	18		
B	Window size: 2700 x 600	NO	12		
Glazing					
4mm Thick sheet glass and glazing to steel casement window with and including lined putty; in					
C	Clear Panes of various sizes	SM	72		
Prepare metal surfaces; apply undercoat and two finishing coats first grade eggshell paint as "Crown paints" or other equal approved metallic paint on metal surfaces to					
D	General surfaces; window and burglarproofing grilles internally (measured flat overall)	SM	72		
E	General surfaces; windows externally (measured flat overall)	SM	72		
Window cill					
F	Precast concrete window cill and including finishing well, creating a throat and making good	LM	81		
Total for Windows Carried to Summary Page					

Item	Description	Unit	Quantity	Rate	Amount
ELEMENT NO. 5 DOORS					
Metal Doors					
The following purpose made mild steel doors complete with hanging and locking accessories fabricate in accordance with the Architectural designs and once primed with red oxide before delivery to the site to cutting and painting. Fixing to wall and plastering reveals in cement (1:3) mortar with all main frames in 50*50mm RHS Tubing.					
A	Door size 1000 x 2400mm high in Single leave, a full height 300mm high; c/w all necessary ironmongery; to the storage cabinet	NO	6		
Painting and Decorating					
B	Prepare and apply 2 coats of gloss oil paint to steel surfaces generally on steel doors	SM	58		
Glazing					
4mm Thick sheet glass and glazing with and including lined putty; in					
D	Clear Panes of various sizes	SM	15		
Total Carried to collection for Doors					

Item	Description	Unit	Quantity	Rate	Amount
ELEMENT NO. 6 FINISHES					
Ceiling Finishes					
A	9mm Thick Chipboard ceiling on and including sawn cypress bracing 50 x 50mm at 600mm centres and 50 x 100mm at 1200mm centres; in both directions	SM	523		
Wrot prime grade cypress timber selected and kept clean					
B	75 x 25mm coved cornice	LM	228		
Aluminium or other equal and approved wood trimmer					
C	Back of wood surface girth 100-200mm	LM	228		
Prepare and apply one undercoat and two finishing coats silk vinyl emulsion paint on					
D	General surfaces of ceiling	SM	523		
Wall Finishes Internally					
15mm Thick plaster in cement/sand (1:3) floated with a steel trowel; to block walls and concrete surfaces in:-					
E	Wall surfaces to receive paint	SM	425		
Prepare surfaces and apply 1. undercoat and 2. coats of silk vinyl paint to or other equal approved on plastered masonry or concrete surfaces; to					
F	Plastered wall surfaces	SM	425		
Wall Finishes Externally					
15mm Thick plaster in cement/sand (1:3) floated with a steel trowel; to block walls and concrete surfaces in:-					
G	Wall surfaces to receive paint	SM	275		
Prepare surfaces and apply 1. undercoat and 2. coats of silk vinyl paint to or other equal approved on plastered masonry or concrete surfaces; to					
H	Plastered wall surfaces	SM	275		
Total Carried to collection for Finishes					

Item	Description	Unit	Quantity	Rate	Amount
Finishes Cont.....					
Floor Finishes					
Cement and sand (1:4) mortar finished with a wooden trowel to floor surfaces; in					
A	18mm Thick finished wooden trowelled receive ceramic tiles	SM	497		
300 x 300 x 8mm Approved coloured NON-SLIP glazed ceramic floor tiles as 'Saj Ceramics' or other equal and approved; to regular pattern; grouting joints in matching cement; to					
B	Floors; on level screed (m/s)	SM	497		
20mm Thick screed in cement/sand (1:3) floated with a Wooden trowelled trowel to receive terrazzo; to					
C	Risers	SM	16		
D	Treads	SM	30		
20mm thick terrazzo floor and including plastic strips of interval provided by the Architects; to					
E	Risers	SM	32		
F	Treads	SM	60		
G	100mm High skirting	LM	202		
Total Carried to collection for Finishes					

Item	Description	Unit	Quantity	Rate	Amount
Finishes Cont.....					
15mm Thick plaster in cement/sand (1:3) floated with a steel trowel; to:-					
A	Soffits of waist	SM	4		
B	Soffits of landing	SM	18		
C	Edges of waist	SM	8		
Prepare surfaces and apply 1. undercoat and 2. coats of silk vinyl paint to or other equal approved on plastered masonry or concrete surfaces; to					
D	Soffits of waist	SM	8		
E	Soffits of landing	SM	24		
F	Edges of waist	SM	16		
Staircase and Balcony Balustrading					
900mm High balustrading comprising 75mm diameter stainless steel handrail on 50mmx50mm SHS stainless steel moulded balusters at approximately 250mm centres; 60 middle rails; to profile of staircase; all to detail - see Appendix					
G		SM	48		
Prepare metal surfaces; apply undercoat and two finishing coats first grade eggshell paint as "Crown paints" or other equal approved metallic paint on metal surfaces to					
H	General surfaces; of metallic railing (measured flat overall)	SM	48		
EXTERNAL WORKS (PAVING BLOCKS TO EXISTING WARM OUT PARKING)					
Supply and fix 50mm thick precast paving blocks including parking dust bedding and compaction to the existing but warm out parking area upto and including the road					
F		SM	600		
Fabricate and install a new Gate as per the Architectural design provided. Paint the same to approved school colours and sign writing.					
G		NO	1		
Total Carried to collection for Finishes					

Item	Description	Unit	Quantity	Rate	Amount
COLLECTION FOR FINISHES					
Brought Forward from Page 2nd/10					
Brought Forward from Page 2nd/11					
Brought Forward from Page 2nd/12					
SUB-TOTAL FOR SECOND FLOOR BUILDERS WORK CARRIED TO GRAND SUMMARY					

