REPUBLIC OF KENYA

MINISTRY OF TRANSPORT, INFRASTRUCTURE, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT OF PUBLIC WORKS

BILL OF QUANTITIES

FOR

PROPOSED CONSTRUCTION TO COMPLETION OF GROUND FLOOR OF A TWO STOREY BUILDING CONSISTING OF 3 CLASSROOMS ON EACH FLOOR, A STAIRCASE AND A RAMP AT MAWENI COMMUNITY PRIMARY SCHOOL

NG-CDF-KILIFI SOUTH

REGIONAL QUANTITY SURVEYOR
COAST REGION
P.O. BOX 90350
MOMBASA

REGIONAL WORKS OFFICER
COAST REGION
P.O. BOX 90350
MOMBASA

F/Y 2026/2027

GROUND FLOOR

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	ELEMENT NO. 1: -				
	SUBSTRUCTURE (ALL PROVISIONAL): -				
	Site clearance: -				
A	Clear site of all grass, shrubs and under-growth including grubbing up roots and carting away	466	Sm		
	Excavations and earthworks: -				
B	Excavate oversite average 150mm deep and cart away	315	Sm		
C	Excavate trench for strip foundation not exceeding 1.5m deep	99	Cm		
D	Ditto for column bases	71	Cm		
E	Ditto 1,5-3.0m	10	Cm		
F	Return fill and ram	80	Cm		
G	Cart away surplus excavated material	90	Cm		
H	Extra-over excavation for excavating in rock	55	Cm		
I	Allow for planking and strutting	1	Item		
J	Allow for keeping excavations free from water	1	Item		
	Hardcore: -				
K	300mm thick approved hardcore	268	Sm		
L	50mm thick murram blinding	268	Sm		
M	Treat hardcore surface with approved antitermite	268	Sm		
	Carried to collection				

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	Concrete works: -				
A	Plain concrete (1:4:8) in 50mm blinding under strip foundation	66	Sm		
B	Ditto under column bases	48	Sm		
	Vibrated reinforced concrete (1:2:4) in: -				
C	Strip foundation	14	Cm		
D	Column bases	14	Cm		
E	Substructure columns	4	Cm		
F	Ground beam	8	Cm		
G	150mm surface slab	268	Sm		
	Sawn formwork to: -				
H	Vertical sides of columns	88	Sm		
I	Sides of ground beam	81	Sm		
J	Edges of surface slab 75 - 150mm wide	85	Lm		
	High yield deformed bars: -				
K	Assorted bars (D8, D10, D12 & D16)	3500	Kg		
L	BRC mesh type A66	268	Sm		
	Sub-wall: -				
M	200mm coral block walling bedded and jointed in cement sand (1:3) mortar and reinforced every alternate course course with hoop iron	175	Sm		
	Carried to collection				

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	Damp proof course: -				
A	200mm wide Hessian based bituminous felt DPC	103	Lm		
	Damp proof membrane: -				
C	1000 gauge polythene DPM	268	Sm		
	Plinth: -				
D	15mm thick cement sand (1:3) rendering to plinth wall	51	Sm		
E	Prepare and apply three coats bituminous paint on plinth wall	51	Sm		
	Paving slabs around the building: -				
F	600 x 600 x 50mm precast concrete paving slabs jointed in cement sand (1:3) mortar, laid on 200mm murram and 50mm sand bed in including approved antitermite treatment	51	Sm		
	Carried to collection below				
	COLLECTION: -				
	Brought forward from page GF/1				
	Brought forward from page GF/2				
	Brought down from above				
	TOTAL OF SUBSTRUCTURE,				
	CARRIED TO SUMMARY				

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	ELEMENT NO. 2: -				
	REINFORCED CONCRETE SUPERSTRUCTURE:-				
	Vibrated reinforced concrete (1:2:4) in: -				
A	Beams	9	Cm		
B	Columns	6	Cm		
C	Staircase	0.5	Cm		
D	Ramp	1	Cm		
E	150mm thick suspended slab	239	Sm		
	Formwork to: -				
F	Sides and soffites of beams	124	Sm		
G	Vertical sides of columns	98	Sm		
H	Soffites of suspended slab	239	Sm		
I	Soffites and sides of staircase and landing	7	Sm		
J	Soffites and sides of ramp	15	Sm		
K	Edges of suspended slab 75 - 150mm wide	20	Lm		
L	Edges of staircase risers ditto	10	Lm		
	High yield deformed bars: -				
K	Assorted bars (D8, D10, D12 & D16)	4500	Kg		
	TOTAL OF RC SUPERSTRUCTURE				
	CARRIED TO SUMMARY				

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	ELEMENT NO. 3: -				
	WALLING: -				
A	200mm thick machine cut coral block walling bedded and jointed in cement sand (1:3) mortar and reinforced every alternate course with hoop iron	217	Sm		
B	200mm thick pre-cast concrte vent block walling bedded and jointed in cement sand (1:3) mortar	7	Sm		
	TOTAL OF WALLING, CARRIED TO SUMMARY				

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	ELEMENT NO. 4: -				
	DOORS: -				
A	Heavy duty mild-steel door size 900x 2400mm comprising 25 x 25 x 1.5mm thick RHS main framing, 25x25x1.5mm thick shutter framing 4mm thick panelled plates welded to framing including all necessary heavy duty hinges, bolts, fanlights with with mosquito gauze and metal lugs	3	No		
B	Prepare and apply primer and two coats first quality gloss oil paint on mild-steel surfaces	14	Sm		
	TOTAL OF DOORS,				
	CARRIED TO SUMMARY				

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	ELEMENT NO. 5: -				
	WINDOWS: -				
	Heavy duty mild-steel casement window comprising 25 x 25 x 1.2mm thick framing (Square tube/Flat bar) including all necessary hinges, bolts, fasteners, stays, fanlights with mosquito gauze and metal lugs: -				
A	Window size 1200 x 1500mm	21	No		
B	5mm clear glass and glazing with metal putty in panes 0.1 - 0.5sm	47	Sm		
C	250x50mm reinforced concrete (1:2:4) window cill including all necessary renforcement, formwork and plaster	38	Lm		
	Painting: -				
D	Prepare and apply primer and two coats gloss oil paint on mild-steel surfaces	94	Sm		
E	Ditto 200-300mm girth	38	Lm		
	TOTAL OF WINDOWS,				
	CARRIED TO SUMMARY				

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	ELEMENT NO.6: -				
	FIXTURES AND FITTINGS: -				
	Staircase and ramp railings: -				
	Mild-steel members welded together and neatly grinded at weld joints: -				
A	50mm diameter x 2mm thick CHS Hand	41	Lm		
B	Ditto mid and bottom rails	82	Lm		
C	50mm diameter x 2mm thick balusters 900mm high	274	No		
D	Mortice in concrete size 100 x 100 x 100mm deep and grout with cement sand (1:3) mortar	274	No		
E	Fanged ends of balusters	274	No		
F	Prepare and apply primer and two coats gloss oil paint on 50mm diameter mild-steel pipes	380	Lm		
	Black board: -				
G	board size 6x1.2m	3	No		
	TOTAL OF FIXTURES AND FITTINGS,				
	CARRIED TO SUMMARY				

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	ELEMENT NO. 7: -				
	FINISHES: -				
	Wall finishes: -				
A	15mm thick cement, sand, lime (1:1:6) plaster on walls, beams and columns internally	342	Sm		
B	Ditto door and window jambs	29	Sm		
C	15mm thick cement, sand (1:3) rendering on walls, beams and columns internally	235	Sm		
	Floor finishes: -				
D	25mm thick cement sand (1:3) screed to receive floor tiles	268	Sm		
E	Ditto to staaircase and landing to receive terrazzo	7	Sm		
F	Ditto to ramp to receive terrazzo	15	Sm		
G	300 x 300 x 8mm ceramic floor tiles fixed with approved adhesive	268	Sm		
H	25mm polished terrazzo on staircase and landing	7	Sm		
	Ditto to ramp	7	Sm		
I	100 x 8mm cerami skirting	114	Lm		
J	100 x 25mm terrazzo skirting	10	Lm		
	Ceiling finishes: -				
K	15mm thick cement, sand, lime (1:1:6) plaster to soffites of suspended slab	239	Sm		
L	Ditto Soffites and sides of staircase and landing	7	Sm		
M	Ditto Soffites of ramp	15	Sm		
	Carried to collection				

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	Painting: -				
A	Prepare and apply undercoat and two coats first quality plastic emulsion paint on plastered walls internally	371	Sm		
B	Ditto rendered walls externally	235	Sm		
C	Prepare and apply undercoat and two coats first quality plastic emulsion paint on plastered ceiling	239	Sm		
D	Ditto soffites of staircase and landing	7	Sm		
E	Ditto Soffites of ramp	15	Sm		
	Carried to collection below				
	COLLECTION: -				
	Brought forward from page GF/9				
	Brought down from above				
	TOTAL OF FINISHES,				
	CARRIED TO SUMMARY				

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	ELEMENT NO 8				
	ELECTRICAL WORKS:-				
	LIGHTING INSTALLATION				
	LIGHTING POINTS				
A	Lighting points wired in 3x1.5mm2 PVC/SC copper cables drawn in concealed 20mm diameter heavy duty gauge PVC conduits including all boxes, sadles and accessories excluding the light fitting and switch for:				
	i)One way switching	27	No		
	ii)Two way switching	2	No		
	LIGHTING ACCESSORIES:-				
B	10A Single plates moulded plate switch for flush mounting				
	i)One gang two way	6	No		
	ii)Two gang two way	2	No		
	LIGHT FITTINGS WITH LAMPS:-				
C	14W, 1x1200mm LED Luminaire	23	No		
D	Weather proof bulkhead fitting complete with a glass cover, metallic base and 9W LED lamp	4	No		
E	20W flood light	2	No		
	carried to collection				

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	INTERNAL POWER INSTALLATION				
	POWER POINTS				
A	13A Socket outlet points comprising wiring in 3x2.5mm2 SC-PVC pure copper cables in the ring circuit drawn in 20mm DIA HG PVC conduits concealed in the Building Fabric from the Distribution board but without the outlet plate	12	No		
	POWER ACCESSORIES:-				
B	13A twin white moulded single socket outlet plate for flush mounting and connection to the raw power supply	12	No		
	POWER DISTRIBUTION:-				
C	Recessed 8-Way SPN Consumer Unit incorporating 32A DP MCB isolator, lockable front door, labeling front cover	1	No		
	Miniature circuit breakers for incorporating in distribution board				
B	5A SP	4	No		
C	10A SP	4	No		
	SUB-MAINS CABLE :-				
D	Submains comprising 3x10mm2 single core PVCI copper cable drawn in 32mm diameter HG PVC Conduit concealed in the building fabric from the cable looping box to the consumer unit	40	Lm		
E	300x300x200mm cable looping box fabricated from steel sheet Gauge 28	1	No		
F	16mm2 2C CU/PVC/SWA/PVC cable drawn 750mm underground from the Meterboard to the cable Looping box	60	Lm		
	Total carried to collection				

Item No	Description	Qty	Unit	Rate	Total (Kshs)
A	**EARTHING:-**				
	i)1500mmx5/8" diameter copper electrode complete with Gunmetal rod to cable clamp	1	No		
	ii)10.0 sq mm yellow/green PVC earth lead	3	Lm		
	iii)Pre-cast inspection pit complete with concrte cover and earth enhancing compound	1	Item		
	Fire Extinguishers:-				
	Water extinguisher with CO2 propellant for class A fire				
B	9 Liter CO2 fire extinguisher	2	No		
	Foam extinguisher with CO2 propellant for class A & B fires				
C	9 Liter AFFF multi-purpose foam spray FE complete with catridge and wall fixing bravket	2	No		
	CARRIED TO COLLECTION BELOW				
	COLLECTION Brought forward from page GF/11 Brougt forward from page GF/12 Brought down from above				
	TOTAL OF ELECTRICAL WORKS				

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	SUMMARY: -				
1	SUBSTRUCTURE FROM PAGE GF/ 3				
2	REINFORCED CONCRETE SUPER-STRUCTURE FROM PAGE GF / 4				
3	WALLING FROM PAGE GF/5				
4	DOORS FROM PAGE GF/6				
5	WINDOWS FROM PAGE GF/7				
6	FIXTURES AND FITTINGS FROM PAGE GF/8				
7	FINISHES FROM PAGE GF/10				
8	ELECTRICAL WORKS FROM PAGE GF/14				
	TOTAL OF GROUND FLOOR,				
	CARRIED TO MAIN SUMMARY				

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	PRIME COST AND PROVISIONAL SUMS: -				
	PROVISIONAL SUMS: -				
A	Provide a provisional sum of Kenya Shillings One Hundred Thousand for Contigencies				50,000
B	Provide a provisional sums of Kenya Shillings One Hundred and EightyThousand for Project Management Technical team				180,000
C	Provide a provisional sums of Kenya Shillings One Hundred and Twenty Thousand for Project Management PMC				120,000
	TOTAL OF PROVISIONAL AND PRIMECOST				
	SUMS, CARRIED TO SUMMARY				**350,000**

No	Description	Qty	Unit	Rate	Total (Kshs)
	MAIN SUMMARY: -				
A	PRELIMINARIES				
B	GROUND FLOOR FROM PAGE GF/14				
C	P.C SUM & PROVISIONAL SUMS FROM PAGE PS / 1				350,000
	SUB-TOTAL				
	ADD 16% VAT				
	ADD 0.03% PPRA LEVY				
	TOTAL CARRIED TO FORM OF TENDER				

AMOUNT IN WORDS: …….

…….

CONTRACTOR'S NAME: …….

ADDRESS: …….

SIGNATURE: …….. ……..

NAME OF WITNESS: ……

ADDRESS: …….

SIGNATURE: …….. ……..