

PROPOSED RE-CONSTRUCTION OF 2NO.CLASSROOMS AND EQUIPPING

AT

KWA NJENGA PRIMARY SCHOOL

IN

EMBAKASI SOUTH CONSTITUENCY

NAIROBI CITY COUNTY

**FIRST FLOOR CONCRETE SLAP
STRUCTURAL DRAWINGS BE ENCLOSED IN TENDER BQ
FINAL REVISION ON 08.11.2023**

**NATIONAL GOVERNMENT CONSTITUENCY
DEVELOPMENT FUND BOARD**

**CORPORATE SOCIAL RESPONSIBILITY
PROGRAMME**

ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
	<u>ENVIRONMENTAL CONSERVATION</u>				
A	The Contractor shall plant trees immediately the site is handed over as directed by County Works Officer and Head Teacher and water during contract period till well established	ITEM		SUM	20,000
	<u>SUBSTRUCTURE</u>				
	Substructure Walling should on average be 300mm above flattened ground.				
	<u>ALL PROVISIONAL</u> <u>DEMOLISHING PARTS OF EXISTING 2NO.CLASSROOMS</u>				
B	Carefully demolish parts of Existing 2NO.Classrooms, remove timber for form work, reinforced concrete columns and cart away debris as directed by Project Manager (Aproximate Area 180M2)	ITEM		SUM	
C	Retain 200 mm thick natural stone walling already constructed in Superstructure and Substructure as directed by Project Manager	ITEM		SUM	
D	Excavate oversite to remove black cotton commencing from stripped ground level 300mm deep	180	SM		
E	Excavate for 6 NO.column pits commencing from stripped ground level and not exceeding 1.50 Metres	45	CM		
F	Cart away excavated material and deposit in council approved dump	45	CM		
G	Return, fill and ram selected material to back of foundations	29	CM		
H	Allow for planking and strutting to uphold sides of excavations	ITEM		SUM	
I	Allow for keeping excations free from general water including spring water by pumbing, bailing or otherwise	ITEM		SUM	
	Carried to Collection	1			

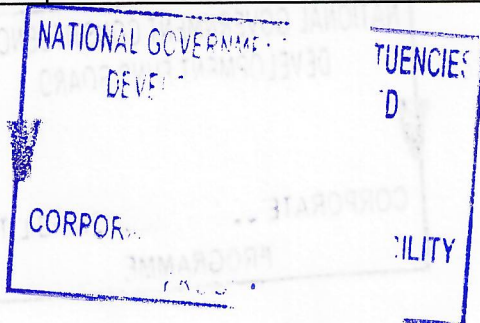
NATIONAL GOVERNMENT CONSTITUENCIE.
DEVELOPMENT FUND BOARD

CORPORATE SOCIAL RESPONSIBILITY
PROGRAMME

ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
A	Hardcore fill in making up levels laid and compacted in layers of 150 mm thick and overall thickness 300 mm	180	SM		
B	Treat surface of stripped ground with chloropyrif or antitermite treatment applied in accordance with the manufacturer' printed instructions	180	SM		
C	Murram blinding laid on hardcore(ms)	167	SM		
D	Gauge 500 damp proof membrane	180	SM		
	<u>Concrete Work</u> <u>REINFORCED CONCRETE RAFT FOUNDATION CONSTRUCTION</u> <u>Plain Concrete Class mix (1:4:8) in:</u>				
E	50 mm Thick blinding under column bases and strip foundations	57	SM		
F	Allow for forming sinking in hardcore for ground beams	92	LM		
G	<u>Vibrated Reinforced concrete mix (1:2:4) in:-</u> Ground beams (Perimeter , middle of classrooms-length and width)	6	CM		
	<u>6NO.CONCRETE COLUMNS</u>				
H	Column bases	13	CM		
I	Columns	1	CM		
J	150 mm Thick raft foundation	180	SM		
K	100 Ditto ramp 1200 mm wide and 3000 mm long including 20mm thick cement and sand screed (1:3) with grooves in approved pattern	2	NO		
L	Concrete site step size 1200x500 mm ,200 mm step and 165 mm high	8	LM		
M	Concrete thicknessing size 500x300 mm and form sinking in hardcore (Ramp Construction)	2	LM		
	Carried to Collection				
	2				



ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
A	50 mm Thick precast concrete paving slabs (1:2:4) with joints in cement mortar (1:4) pointed and laid on murrum and hardcore bed including excavating 150 mm deep <u>REINFORCEMENT</u> <u>Supply and fix the following high tensile ribbed round steel bars to B.S. 4461 including binding wires, spacer blocks, cutting and bending</u>	36	SM		
B	16 mm Diameter bars	94	KG		
C	12mm Ditto	527	KG		
D	10mm Ditto (In Raft Floor)	1109	KG		
E	8mm Ditto	258	KG		
	Carried to collection				
	3				



ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
	<u>REINFORCED CONCRETE SUPERSTRUCTURE</u>				
	<u>Vibrated Reinforced Concrete mix class 25/20 with crushing strength of 25N/mm²</u>				
	<u>The Contractor shall allow space for construction of a Concrete Ramp and no staircase</u>				
A	Beams	7	CM		
B	Columns	1	CM		
C	150mm Thick suspended slab	180	SM		
	<u>REINFORCEMENT</u>				
	<u>ALL PROVISIONAL</u>				
	<u>Supply and fix the following high tensile ribbed steel bars as before :</u>				
D	16mm Diameter bars	207	KG		
E	12 mm Diameter bars	438	KG		
F	10 mm Ditto	1692	KG		
G	8 mm Ditto	378	KG		
	Carried to collection				
	6				

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**CORPORATE SOCIAL RESPONSIBILITY
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ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
	<u>Sawn formwork to:-</u>				
A	Sides and soffits of beams	82	SM		
B	Vertical sides of columns	17	SM		
C	Soffits of suspended slab	167	SM		
D	Edges of suspended slab 150 mm to 225 mm high	58	LM		
	Carried to collection				
	<u>COLLECTION</u>				
	From page 6				
	“ Above				
	TOTAL FOR REINFORCED CONCRETE SUPERSTRUCTURE CARRIED TO MAIN SUMMARY				

NATIONAL GOVERNMENT CONSTITUTION 7
DEVELOPMENT SINCE 1970

CORPORATE SOCIAL RESPONSIBILITY
PROGRAMME

ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
WALLING					
<u>EXTERNAL WALLING</u>					
Natural stone machine cut , with crushing strength of 14.00 N/MM2 bedded in cement and sand (1:4) mortar joints reinforced with hoop as before:					
A	200 mm Thick walls	15	SM		
B	200 mm Wide damp proof course laid in cement and sand (1:4) bed	2	LM		
C	Extra over medium chisel dressed walling for neatly recessed horizontal joints	123	SM		
<u>INTERNAL WALLING</u>					
D	200 mm Thick machine cut stone in cement and sand mortar joints (1:4)	15	SM		
E	150X200 mm Precast concrete permanent vents with mosquito gauze wire build in walling	33	PR		
F	200 mm Wide damp proof as before described	2	LM		
TOTAL FOR WALLING CARRIED TO MAIN SUMMARY					
8					



ITEM NO	DESCRIPTION	QTY	UNIT	RATE	AMT
EXTERNAL WALLING					
A	100 mm thick walls	12	sqm		
B	100 mm thick damp proof course laid in concrete and sand (1:1) bed	2	sqm		
C	100 mm thick concrete floor dressed with 10 mm thick sand concrete screed	120	sqm		
INTERNAL WALLING					
D	100 mm thick masonry cut stone in cement and sand mortar (1:1)	12	sqm		
E	100 mm thick plaster concrete preparation with 10 mm sand	12	sqm		
F	100 mm thick damp proof in below described	12	sqm		
TOTAL FOR WALLING EXHIBED TO MARK SUMMARY					

NATIONAL GOVERNMENT CONSTITUENCIES
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ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
	<u>DOORS</u>				
	<u>Mild Steel</u>				
	<u>Fabricate, weld, supply and fix steel doors comprising gauge 16 cover plate in boxes, heavy gauge sections with weld joints ground smooth, apply red oxide primer before delivery including lugs built - in walling to Architect's approval:-</u>				
A	Steel door size 1200x2100 mm double door, leaf size 600x2100 mm, consisting 38x38 x 2 mm angle frame, 25x25mm hollow section tube internal framing including necessary ironmongery with 3NO. 25mm Heavy duty hinges, box profile 450x450mm	2	NO		
	<u>Glazing</u>				
B	4mm Thick clear sheet glass in panes 0.10 to 0.50 Square metres and glazing metal with linseed putty	2	SM		
	Carried to Collection				
	9				



ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
	<u>Ironmongery</u> Supply the following Ironmongery from Union Catalogue or other equal and approved including matching screws:				
A	25mm Long heavy duty bushes	6	NO		
B	Rubber stops	4	NO		
	<u>Painting and Decorating</u>				
	<u>Externally</u>				
C	Prepare and apply three coats of gloss oil paint from Crown Berger or Dura Coat to general surfaces of wood	5	SM		
	<u>Internally</u>				
F	Prepare and apply three coats as before	5	SM		
	Carried to Collection				
	<u>COLLECTION</u>				
	From Page 9				
	" " 10				
	TOTAL FOR DOORS CARRIED TO MAIN SUMMARY				

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NATIONAL GOVERNMENT CONSTITUENCY
DEVELOPMENT FUND

CORPORATE RESPONSIBILITY
PROGRAMME

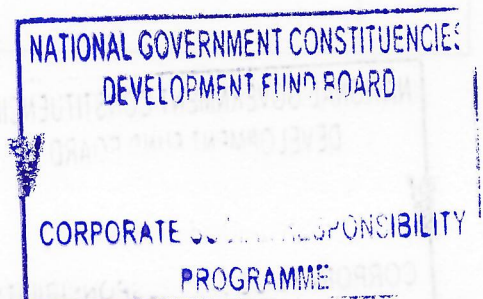
ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
	<u>WINDOWS</u>				
	<u>Mild Steel</u>				
	<u>Fabricate ,Supply and fix including ground smooth weld joints with ' I' sections and 25x25 mm ' Z' sections prepare and apply red oxide primer before delivery including brass window stays and fasteners to Architect's approval and 12 mm square solid steel burglar proofing in pattern approved by Architect:</u>				
A	Composite window size 1800x1500 mm consisting of 2NO. opening lights size 600x1500mm , 1NO.fixed light and ventlight	6	NO		
B	Ditto 1800x1000 mm Ditto, 2NO. Opening lights, 1NO. fixed light and ventlight	4	NO		
	<u>Glazing</u>				
C	4mm Thick clear glass in panes 0.10 to 0.50 square metres and glazing metal with linseed oil putty	24	SM		
	<u>Precast Concrete</u>				
D	265X75 mm Window cill in concrete (1:2:4) including moulds, throating, top weathered and hoist and fix in position	20	LM		
	Carried to Collection				
	11				



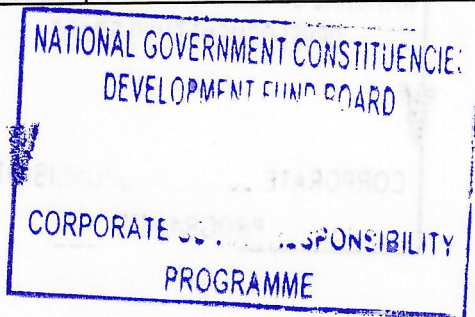
ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
	<u>Painting and Decorating</u>				
	<u>Internally</u>				
A	Prepare and apply one under coat and three coats of gloss oil paint from Crown Berger or Dura Coat to general surfaces of metal	24	SM		
	<u>Externally</u>				
B	Ditto Surfaces of metal	24	SM		
	Carried to Collection				
	<u>COLLECTION</u>				
	From Page 11				
	" " 12				
	TOTAL FOR WINDOWS CARRIED TO MAIN SUMMARY				
	12				

NATIONAL GOVERNMENT CONSTITUENCE
DEVELOPMENT FUND BOARD
CORPORATE SOCIAL RESPONSIBILITY
PROGRAMME

ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
<u>FINISHES</u>					
<u>EXTERNAL FINISHES</u>					
A	12 mm Thick cement and sand (1:4) rendering to concrete surfaces woodfloat finished	25	SM		
B	12 mm Ditto to walls and reveals	8	SM		
C	12 mm Ditto to columns	23	SM		
<u>Painting and Decorating</u>					
D	Prepare and apply three coats plastic emulsion paint from Crown Berger or Dura Coat to rendered surfaces	56	SM		
<u>Internal Wall Finishes</u>					
E	12 mm Thick plaster plus cement and sand (1:4) steel float finished	169	SM		
<u>Painting and Decorating</u>					
F	Prepare and apply three coats plastic emulsion vinyl silk cream paint from Crown Berger or Dura Coat to plastered surfaces	169	SM		
<u>FLOOR FINISHES</u>					
<u>POLISHED TERRAZO</u>					
G	20mm Thick terrazo consisting of white marble mixed with white cement to approval of Works Office	170	SM		
H	20mm Ditto in 100 mm high skirting with coved junction between flooring	80	LM		
I	3mm Thick plastic dividing strip 20 mm wide set in floor finish	553	LM		
Carried to Collection					
13					



ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
A	<u>Floor Finishes</u> 20 mm Thick cement and sand (1:3) floor screed wood float finished to receive tiles (M.S)	170	SM		
Carried to Collection					



ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
	<u>COLLECTION</u>				
	From Page 13				
	" " 14				
	TOTAL FOR FINISHES CARRIED TO MAIN SUMMARY				
	15				

NATIONAL GOVERNMENT CONSTITUENCIES
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 CORPORATE SOCIAL RESPONSIBILITY
 PROGRAMME

ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
	<u>FIXTURES</u>				
	<u>The following in 2NO.White Board size 2000x1500 mm</u>				
A	Supply and mount white board to walling complete with chalk and dust holder all in accordance with specifications from SEPU	2	NO		
	<u>The following in 2NO.Notice Board size 2400x1200 mm</u>				
B	12 mm Thick soft board	6	SM		
C	50X25 mm Wrot Cypress moulded framing plugged	14	LM		
	Painting and Decorating				
D	Prepare and apply one under coat and three coats of brilliant white emulsion paint to general surfaces of soft board	6	SM		
E	Prepare and apply one under coat and three coat of gloss oil paint to general surfaces of wood work to 100 mm girth	14	LM		
	TOTAL FOR FIXTURES CARRIED TO MAIN SUMMARY				

NATIONAL GOVERNMENT CONSTITUENCY
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PROGRAMME

ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
A	<p style="text-align: center;"><u>ROOFING</u></p> <p>50mm Thick cement and sand (1:2) laid to falls and cross falls including liquid Indian water proofing additive</p> <p style="text-align: right;">TOTAL FOR ROOFING CARRIED TO MAIN SUMMARY</p>	180	SM		

NATIONAL GOVERNMENT CONSTITUENCIES
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CORPORATE SOCIAL RESPONSIBILITY
PROGRAMME

ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
<u>ELECTRICAL INSTALLATION</u>					
<u>ELECTRICAL WORKS TO BE EXECUTED BY SPECIALIST REGISTERED BY KPL</u>					
<u>Supply , install , test and commission the following:</u>					
A	Lighting points wired in 3x1.5mm ² SC PVC CU cables drawn in 20mm dia HG PVC conduits with all necessary accessories excluding switches and fittings for one way switching	16	NO		
	Ditto fan points	6			
B	10A moulded ivory switch plate as crabtree or approved equivalent as follows:				
	i. Two way one gang	3	NO		
	ii. Three way one gang	1	NO		
C	Lighting fittings complete with fixing accessories and lamps as follows:				
	i). 1200mm lx 36w florescent batten fitting or slim cross section with clip on cover plate and adjustable end cap system as Thorn Popular Pack batten or approved equivalent	16	NO		
D	ii) Bulkhead fitting with aluminium body on Thorn or approved equivalent with Energy saving bulb	4	NO		
E	Socket outlets Power outlets				
	i. Comprising of wiring in 3x2.5mm ² PVC SC CU in concealed HG conduits	4	NO		
	ii. 13A 2gang switched moulded socket outlet as crabtree or approved equivalent	3	NO		
	Consumer Units and Distribution Boards				
F	4-Way SP/N consumer unit flush mounted on wall complete with a 10A SP/N integral isolator as crabtree or approved equivalent	1	NO		
G	Single Pole miniature circuit breaker as follows:				
	i. 5ASP	1	NO		
	ii. 30asp	2	NO		
	iii. Blanking covers	1	NO		
	Carried to Collection				
	18				



ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
A	Sub-mains Cables 3x6.0mm ² SCPVC CU cables drawn in HG conduit	10	LM		
B	Standard cable looping box complete with single cut out fuse neutral link	1	NO		
C	Electrical earthing comprising of 6.0mm ² SC PVC CU cable drawn in HG conduits 1500mm times 15mm copper electrodes c/w clamps pre-cast concrete inspection pit with cover	ITEM		SUM	
D	Testing and commissioning	ITEM		SUM	
E	Allow for supply and fixing Copper Lighting arrestors, w	1	NO		
	Carried to Collection				
	<u>COLLECTION</u>				
	From Page 19				
	" " 20				
	TOTAL FOR ELECTRICAL INSTALLATION CARRIED TO SUMMARY				
	19				

NATIONAL GOVERNMENT CONSTITUENT
DEVELOPMENT FUND BOARD

CORPORATE SOCIAL RESPONSIBILITY
PROGRAMME

ITEM NO	DESCRIPTION	QTY	UNIT	RATE	AMT
A	100m PVC Cable				
B	100m PVC Cable				
C	100m PVC Cable				
D	100m PVC Cable				
E	100m PVC Cable				
TOTAL FOR ELECTRICAL INSTALLATION					

NATIONAL GOVERNMENT CONSTITUENCIES
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CORPORATE SOCIAL RESPONSIBILITY
PROGRAMME

ITEM NO	DESCRIPTION	QTY	UNIT	RATE	SHS
	PRIME COST AND PROVISIONAL SUMS <u>EXPENDITURE FOR ITEMS HERE BELOW SHALL BE APPROVED BY NG-CDF BOARD</u> <u>The following sums shall be expended upon Architect's instructions and may be omitted in whole:</u>				
A	Allow for a Provisional Sum of Kenya Shillings One Hundred Thousand (Kshs.100,000/) for Contingency	ITEM		SUM	100,000
B	Allow for a Prime Cost Sum of Kenya Shillings Fifty Thousand (Kshs.50,000/) for Supply and Delivery of 9KG and 2NO. Water base and 9 Litre X2NO. Carbon dioxide Fire extinguishers mounted on walling to approval	ITEM		SUM	50,000
C	Allow for Branding of Project in accordance with NG-CDF Board Specifications	ITEM		SUM	15,000
	<u>FURNITURE</u> <u>Wrot Cypress</u> <u>Provide Compartment for books in desk (mini shelf)</u> <u>The ordinary Desks shall be in cypress timber left smooth and polished with clear wood varinish. Teachers' Tables shall be 20 thick MDF 25x25 mm Tubular mild steel framing with 4NO.legs. Teachers' Chairs shall be in 9 mm thick plywood on 25mm tubular framing and 4NO.legs</u>				
D	Allow for a Provisional Sum of Kenya Shillings (Kshs 187,500.00) for Fabrication and Supply of 45NO Ordinary Desk (2NO.Pupils)1.20 metrs long ,2NO.Teachers' and 2NO.Chairs to be supplied by an approved Supplier with specifications from County Works Officer and Head Teacher	ITEM		SUM	187,500
E	Allow for Transport to site	ITEM		10%	18,750
	TOTAL FOR PRIME COST AND PROVISIONAL SUMS CARRIED TO MAIN SUMMARY				



ITEM NO	DESCRIPTION	SHS
<u>PROPOSED CONSTRUCTION OF 2NO.CLASSROOMS WITH EQUIPPING MAIN SUMMARY</u>		
A	SUBSTRUCTURE- PAGE 5	
B	REINFORCED CONCRETE SUPERSTRUCTURE- PAGE 7	
C	WALLING- PAGE 8	
D	DOORS- PAGE 10	
E	WINDOWS- PAGE 12	
F	FINISHES- PAGE 15	
G	FIXTURES- PAGE 16	
H	ROOFING- PAGE 17	
I	ELECTRICAL INSTALLATION - PAGE 19	
J	PRIME COST AND PROVISIONAL SUMS- PAGE 20	
K	PRELIMINARIES	
SUB-TOTAL		
ADD VAT 16%		
TOTAL COST OF 2NO.CLASSROOMS WITH EQUIPPING CARRIED TO FORM OF TENDER		
21		

NATIONAL GOVERNMENT CONSTITUENCIES
 DEVELOPMENT FUND BOARD
 CORPORATE SOCIAL RESPONSIBILITY
 PROGRAMME

S/N	ITEM DESCRIPTION	NO
	PROPOSED CONSTRUCTION OF 2NO CLASSROOMS WITH EQUIPPING MAIN SUMMARY	
A	SUBSTRUCTURE- PAGE 8	
B	REINFORCED CONCRETE SUPERSTRUCTURE- PAGE 7	
C	WALLING- PAGE 8	
D	DOORS- PAGE 10	
E	WINDOWS- PAGE 13	
F	FINISHES- PAGE 15	
G	FIXTURES- PAGE 16	
H	ROOFING- PAGE 17	
I	ELECTRICAL PART	
J	PRIME COST AND PROVISIONS	
K	PRELIMINARIES	
	SUB-TOTAL	
	ADD VAT 16%	
	TOTAL COST OF 2NO CLASSROOMS WITH EQUIPPING	
	CARRIED TO FORM OF TENDER	

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