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This BQ covers the following items for the construction of a Dining Hall.

1. Mutua Secondary School

BILL OF QUANTITIES FOR

PROPOSED DINNING HALL CONSTRUCTION AT ST ANDREW'S MUTUS SECONDARY SCHOOL

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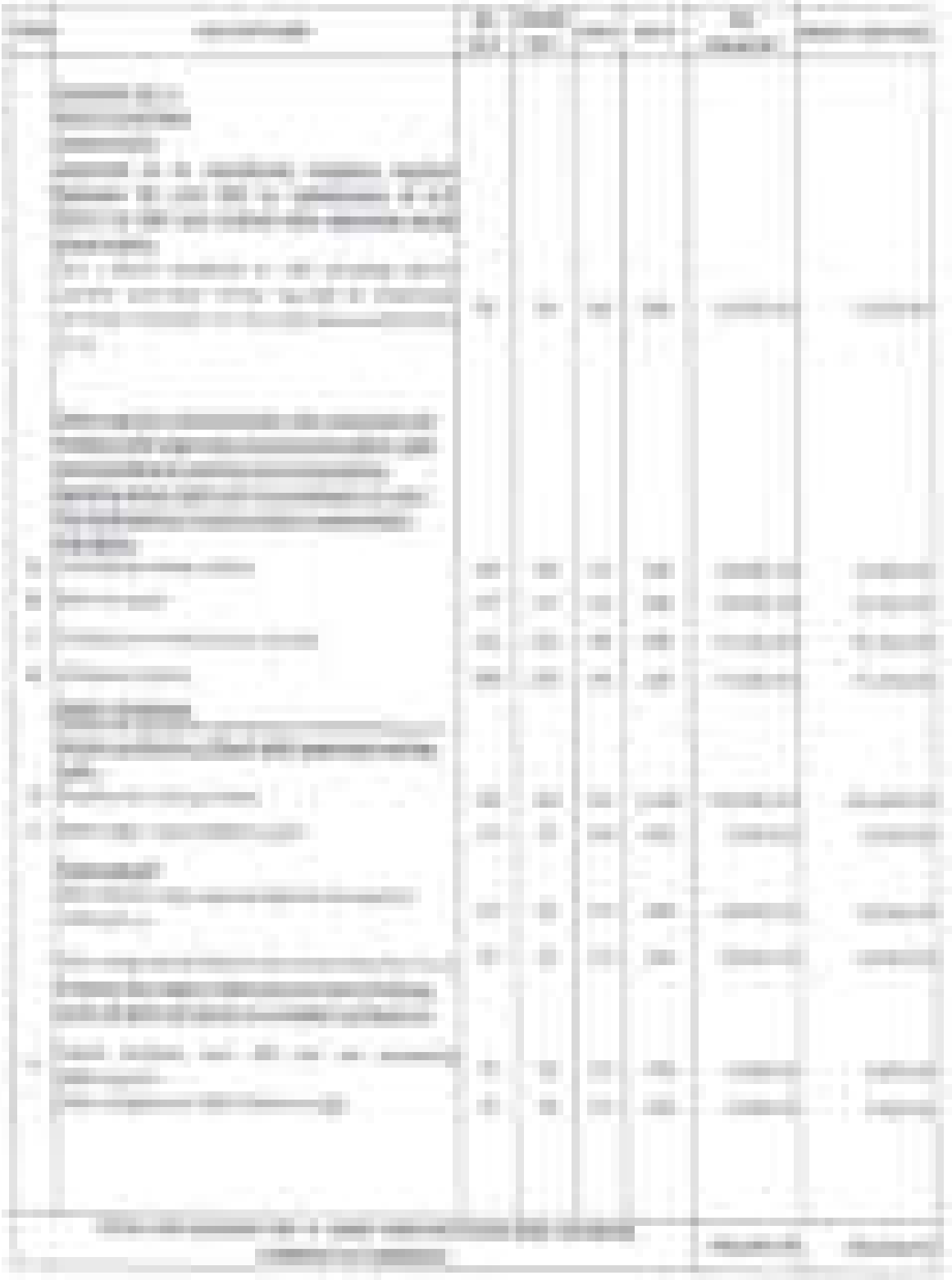

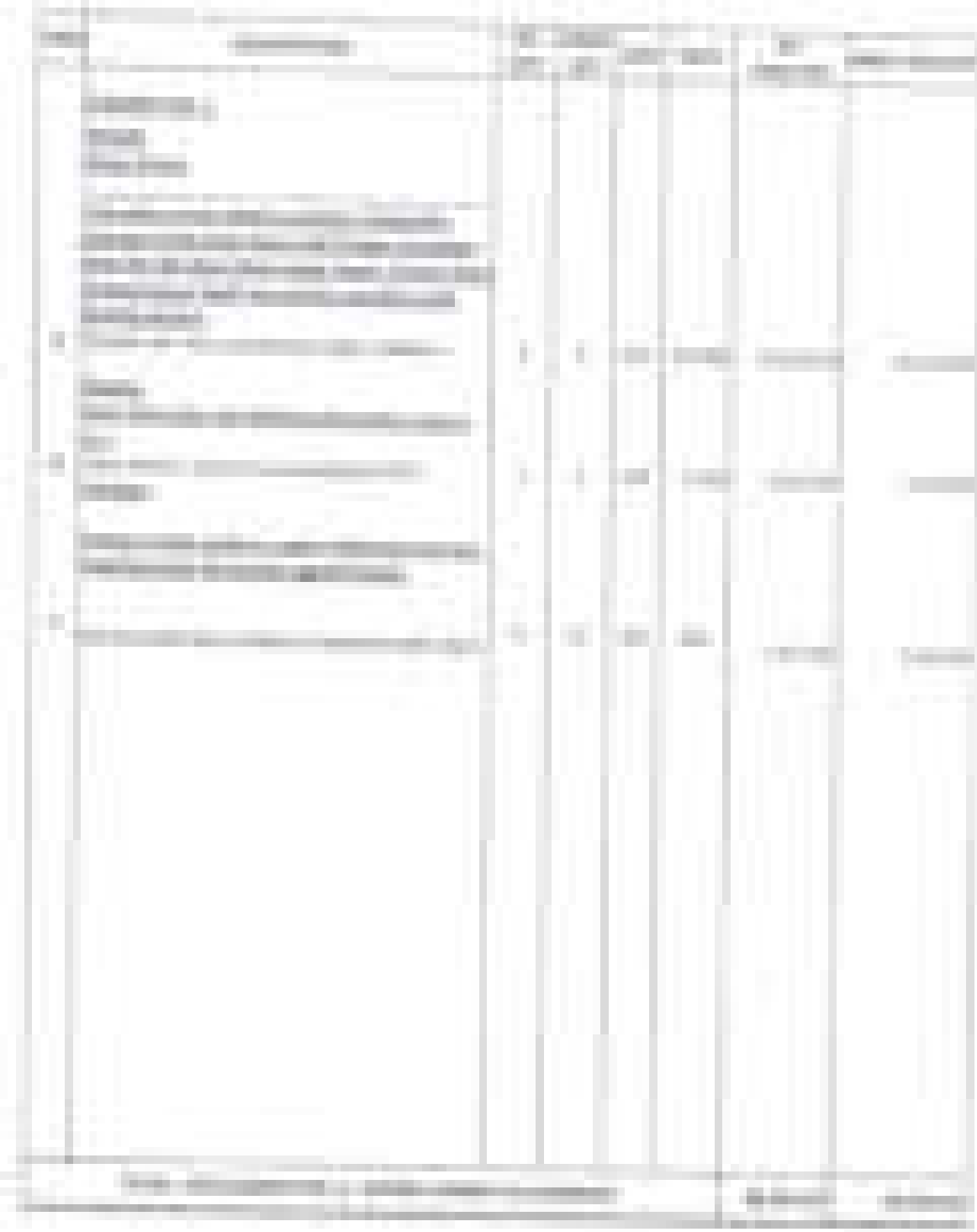

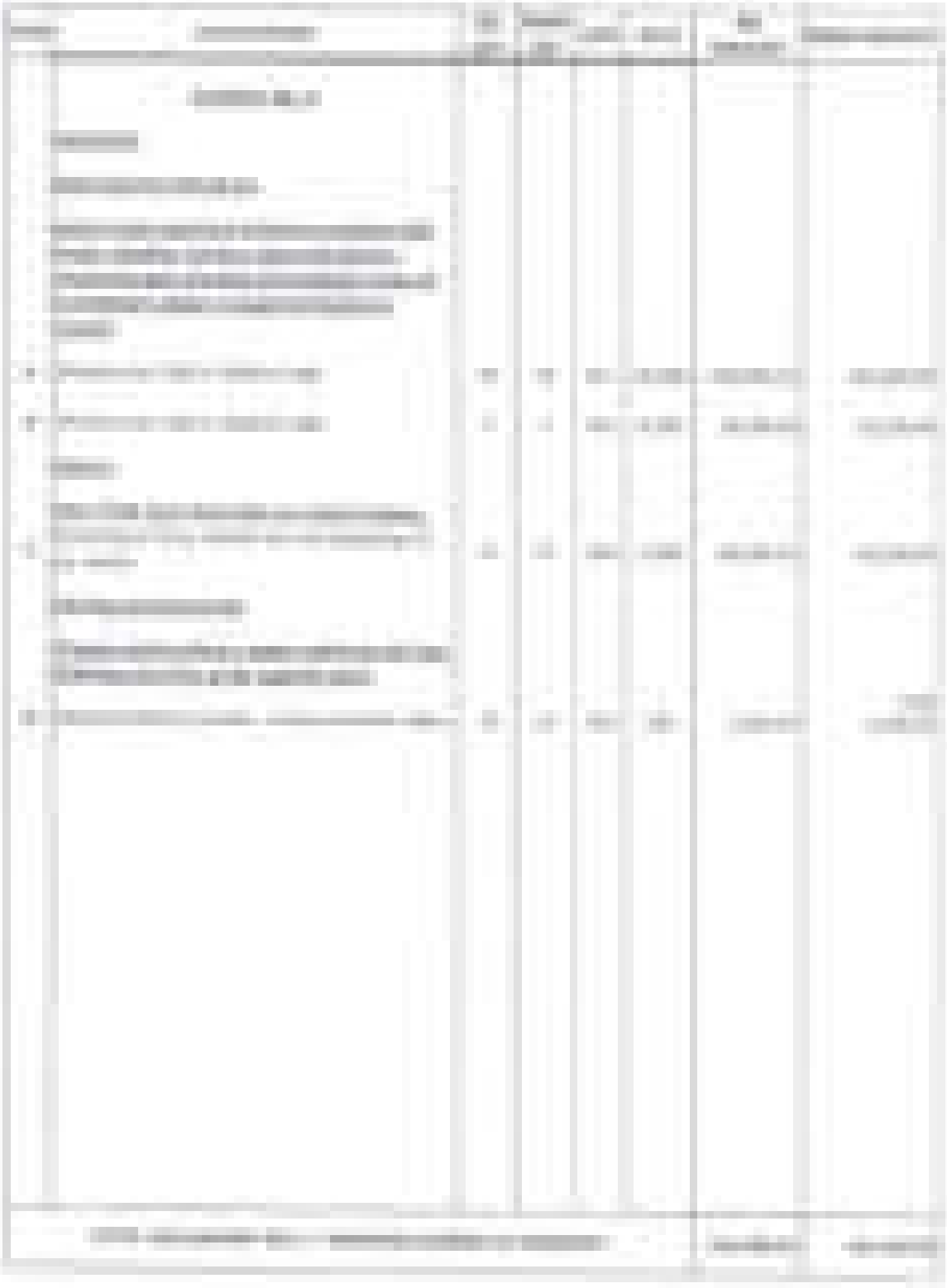

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APPRAISAL FOR

PROPOSED DORMITORY BLOCK CONSTRUCTION AT NYANGWA / KIANJERU PRIMARY SCHOOL

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The following projects for the construction of An Administration block

1. Ogenga Primary School
2. Irianyai Primary School
3. Kamurugai Primary School
4. Akakatuno Primary School
5. Malikiru Primary School
6. Uyywani Primary School
7. Ityaniku Primary School

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This PQ covers the following projects for the construction of Primary School Classrooms

1. Nyangara Primary School
2. Bagara Primary School

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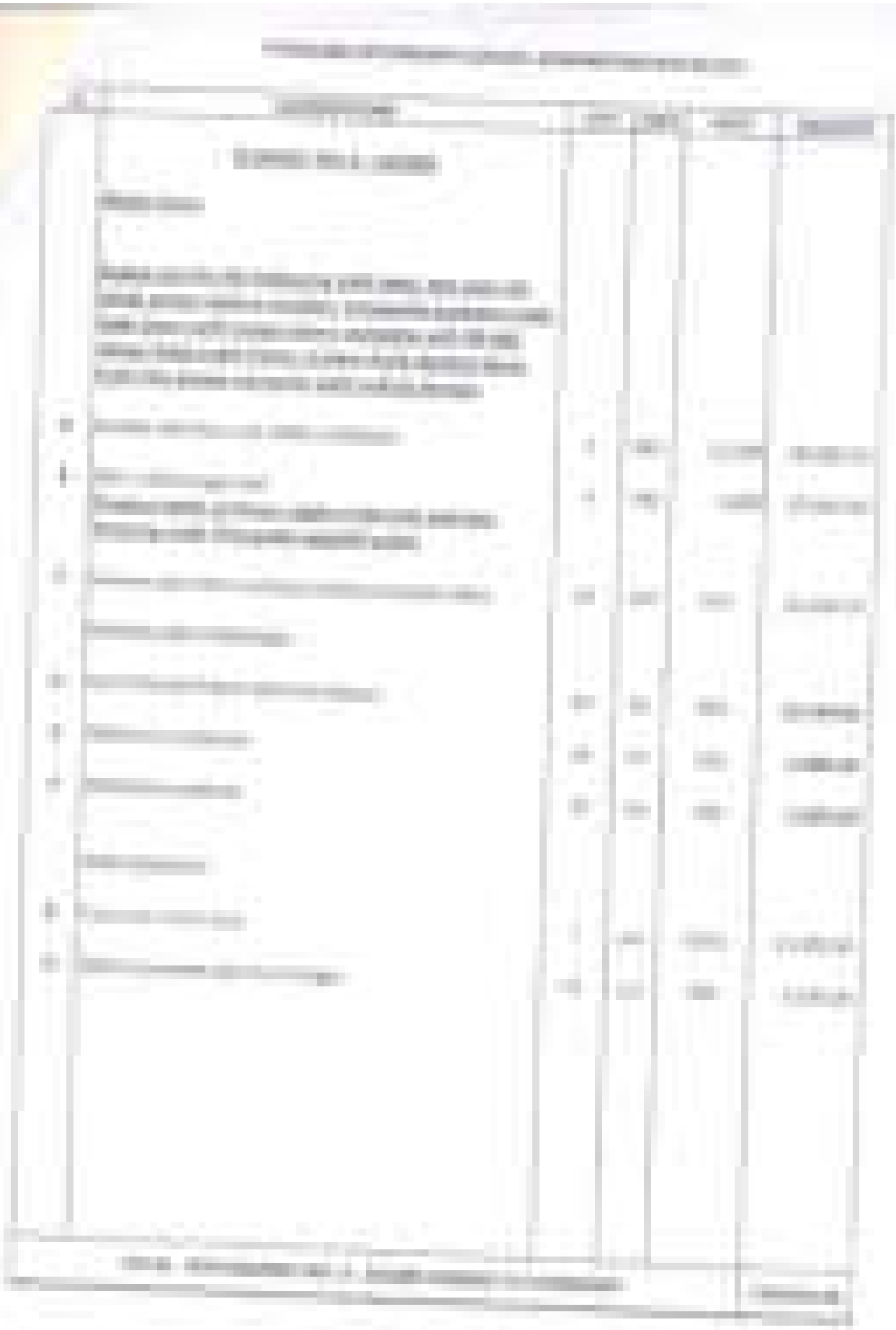

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This PQ covers the following projects for the construction of An Administration Block

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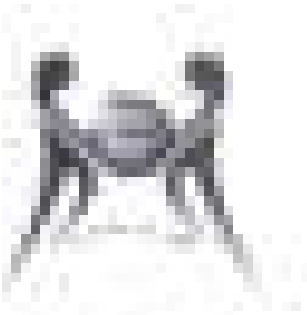
II. Mbita Secondary School
III. Mkomaniki Secondary School



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THE REPUBLIC OF KENYA

STATE DEPARTMENT FOR PUBLIC WORKS

PROPOSED DINING HALL COMPLETION AT GIKIIRO SECONDARY SCHOOL- MBEERE SOUTH

BILL OF QUANTITIES

ISSUED BY:

REGIONAL WORKS OFFICE.

P.O BOX 455-60100

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 1 -SUBSTRUCTURES				
	(All Provisional)				
A	Clear the site of all bushes shrubs small trees and burn the arising spoil.	268	SM	60	16,080.00
B	Excavate soil to make levels.	268	SM	100	26,800.00
	Filling				
	Hardcore as described;				
C	300mm thick well compacted hardcore filling including compacting and consolidating in 150mm layers.	244	SM	900	219,600.00
	Blinding;				
D	500mm thick approved murram blinding to the surfaces of hardcore, rolled smooth to receive polythen sheet (ms)	244	SM	60	14,640.00
	Insectcide treatment;				
E	Dragnet FT or other equal and approved chemical insectcide treatment prepared and applied according to (manufacturers printed instructions.	244	SM	120	29,280.00
F	**Damp proof membrane**				
	500 gauge polythene or other equal and approved polythene plastic sheet damp proof membrane laid over blinding measured net allow for lapp**s)**	244	SM	100	24,400
	Vibrated Reinforced concrete mix (1:2:4) class 20/20mm as described in;				
G	150mm thick ground floor slab.	244	SM	1200	292,800.00
	B.R.C Mesh reinforcement;				
H	Mesh reinforcement to B.S 4483 REF A 142 including laps spacers in and supporting all in position.	244	SM	320	78,080.00
I	**Mass concrete mix 1;3;6/40mm aggregate as described in**;				
	Steps	2	CM	5,000	10,000.00
J	Raised platform	7	CM	5,000	35,000.00
	Carried to Collection				**746,680.00**

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	Supply timber, nails and all necessary materials for and including contruction, erection treatment and later striking out sawn formwork to;				
A	Edges of platform 400mm high.	4	SM	480	1,920.00
	Finishes;				
B	12mm thick cement and sand (1:3) mortar wood float to render to plinth area.	24	SM	375	9,000.00
	Painting				
C	Prepare and supply three coats of black bituminous paint to rendered area of the plinth	24	SM	300	7,200.00
	Total carried to collection				18,120.00
	COLLECTIONS				
	Brought forward from page 1				746,680.00
	Brought down from above				18,120.00
	TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY				**764,800.00**

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 2-WALLING				
	Fine dressed Natural quarry stone bedded and jointed in cement and sand (1:3) mortar; reinforced with gauge25 x 30mm widehoop iron at every alternate course, raking where necessary in;				
A	200mm Thick External walling	44	SM	1,450	63,800.00
B	200 Thick Internal Walling	3	SM	1450	4,350.00
C	200mm thick Gable walling	27	SM	1450	39,150.00
	Extra over walling for finishing face of wall fair including recessing all joints and wiping away split mortar as work proceeds.				
D	External walling	210	SM	320	67,200.00
E	Extra walling for raking cutting and filling to the profile of the roof.	27	LM	100	2,700.00
	Sundries				
F	12mm Diameter x300mm long black mild anchor bolts embedded 180mm deep in ring beam at 1200mm centres including drilling holes in to concrete(m/s)	210	SM	320	67,200.00
	TOTAL FOR ELEMENT NO. 2 - WALLING CARRIED TO SUMMARY				**180,710.00**

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 3 -ROOFING				
	All timber to be sawn cypress of G.S. grade seasoned to an equilibrium moisture content between 9% and 15% to a requirement of K.S 02771 of 1991 and treated with approved wood preservative.				
A	150x50mm wallplate on and including 10mm cement and sand 1:4) mortar secured to reinforced concrete ring beam (m.s) by mild steel anchor bolts (m/s)	66	LM	650	42,900.00
	The following in 27NO, Nailed triangular timber trusses spanning clearly 1200mm centres and including hoisting and placing 3250mm above ground floor slab level				
B	150x50mm trussed rafters	300	LM	650	195,000.00
C	150x50mm tie beam	226	LM	650	146,900.00
D	150x50mm structs and ties	551	LM	650	358,150.00
E	75x50mm purlins	359	LM	380	136,420.00
F	150x50mm valley rafters	20	LM	650	13000
	Roofing Covering				
G	IT BP 959 profiled sheets 906mm wide fixed to purlins (m.s)	334	SM	1,200	400,800.00
H	Ditto ridge covers 900mm girth	43	LM	500	21,500.00
I	Ditto valley covers 900mm girth	21	LM	500	10,500.00
	Wrot Cypress				
J	200x25mm fascia boards fixed to the ends of rafters(.m/s)	43	LM	750	32,250.00
K	Ditto verge boards nailed to purlins.(m/s)	32	LM	750	24,000.00
	Painting				
	Knot prime stop and prepare and apply one undercoat and two finishing coats of gloss oil to:				
L	Surfaces of fascial/verge board (200-300)mm high	75	LM	380	28,500.00
	TOTAL FOR ELEMENT NO. 3 - ROOFING CARRIED TO SUMMARY				**1,409,920.00**

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 4 -				
	DOORS				
	Standard Section purpose made welded mild steel door complete with hinges, stays, fasterners, locking devices 75mm permanent vent with mosquito dauze and steel metalhood assembled and fixed to opening including cutting and pinning lugs to concrete or masonry sorround and bedding frame in cement and sand (1:4) mortar.				
A	Door size 1600x2400mm high double leafed	2	NO.	20,000.00	40,000.00
B	Door size 900mm x 2400mm high single leafed	5	NO.	12,000.00	60,000.00
	Painting				
	Prepare and apply three coats of gloss oil to:				
C	General surfaces of metal doors (Measured overall)	37	SM	300.00	11,100.00
	TOTAL FOR ELEMENT NO. 4- DOORS CARRIED TO SUMMARY				**111,100.00**

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 5. WINDOWS				
A	Windows overall size 1400 x 1400 mm high	7	NO	7,000	49,000.00
B	Windows overall size 1500mm x 1400mm high	2	NO	7,500	15,000.00
C	Window size 1000 x 1400mm high	1	NO	5,000	5,000.00
D	Window size 1600 x 1500mm high	1	NO	8,500	8,500.00
E	Window size 1500 x 1500mm high	1	NO	8,000	8,000.00
F	Window overall size 2000x 1600mm high	1	NO	11400	11,400.00
	Glazing.				
	4mm thick glass and glazing with putty to windows as:				
G	Clear sheet in panes not exceeding 0.50m2	23	SM	1000	23,000.00
	Painting				
	Prepare and apply three coats of gloss oil paint to;				
H	General surfaces of metal grills measured overall	20	SM	300	6,000.00
	TOTAL FOR ELEMENT NO. 5. WINDOWS CARRIED TO SUMMARY				**125,900.00**

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 6 FINISHES				
	External Walls finishes				
A	12mm cement and sand (1:3) mortar horizontal recessed key to natural stone walling (ms)	208	SM	375	78,000.00
	12mm thick cement and sand 1:3 mortar rendeer with wood float finish as described to:				
B	Concrete surfaces of beam	24	SM	375	9,000.00
C	Sides of gable walling	28	SM	375	8,400.00
	Prepare and apply one undercoat and two finishing coats of exterior quality plastic emulsion paint to:				
D	Fair faced surfaces of concrete beams	24	SM	300	7,200.00
E	Surfaces of gable walling	28	SM	300	8,400.00
	Internal wall finishes				
F	Hack out joint and apply 12mm thick plaster (13) in two coats finished with steel trowel on natural stone walling	270	SM	375	101,250.00
	Prepare and apply one undercoat and two finishing coats of platsic emulsion paint to:				
G	Plastered surfaces	270	SM	300	81,000.00
	FLOOR FINISHES				
H	In-situ 32mm thick cement and sand (1:3) mortar screed bend with steel float finish	244	SM	450	109,800.00
	TOTAL FOR ELEMENT NO. 6 - FINISHES CARRIED TO SUMMARY				**403,050.00**

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	BILL NO.1				
	EXTERNAL WORKS				
A	Excavate oversite average 150mm deep in backfield area, load up,wheel and deposit as directed on site.	148	SM	100	14,800.00
B	150 mm thick selected compacted murram filling to make up levels under pavings slabs(m.s)	96	SM	60	5,760.00
C	50mm thick sand bed on compacted murram to receive paving slabs.	96	SM	80	7,680.00
D	Dragnet FT or other equal and approved chemical anti-termite treatment prepared and applied according to the manufacturers printed instructions.	96	SM	120	11,520.00
E	600 X 600 X 50mm thick Precast concrete slabs laid on compacted murram (m.s) and pointed in cement sand (1:3) mortar	96	SM	1000	96,000.00
	TOTAL FOR BILL NO. 1- EXTERNAL WORKS CARRIED TO SUMMARY				**135,760.00**

PROPOSED COMPLETION OF DINING HALL FOR GIKIIRO SECONDARY SCHOOL

GRAND SUMMARY

ITEM	DESCRIPTION		2,995,480.00
		CONTRACTOR'S USE	OFFICIAL USE
1	SUBSTRUCTURES		764,800.00
2	WALLING		180,710.00
3	ROOFING		1,409,920.00
4	DOORS		111,100.00
5	WINDOWS		125,900.00
6	FINISHES		403,050.00
7	EXTERNAL WORKS		
	SUB TOTAL		**2,995,480.00**
	Add 5% as PMC costs		149,774.00
	Allow for Project Management		42,150.00
	TOTAL		3,187,404.00
	Add 16% VAT		509,984.64
	GRAND TOTAL IS KSHS.		**3,697,388.64**

Amount in words; Kenya Shillings Three Million, Six Hundred and Ninety Seven Thousand, Three Hundred Eighty Eight and Sixty Four Cents Only.

NAME OF TENDERER……..

ADDRESS…….

SIGNATURE……**STATUS**……..

DATE……

NAME OF WITNESS……

ADDRESS…….

SIGNATURE……

DATE……

[illegible]

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[illegible] PRESENT:

1. [illegible] — Chairman
2. [illegible] — Member
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible] — Member
9. [illegible]

ALSO PRESENT:

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Project Code	Name of Project	Activities	Original Cost	Cumulative Allocation	Cumulative Expenditure (up to 31-12-2018)	Status
A COMPREHENSIVE AGE BASED PENSION SCHEME						
	Employees' Pensions	Payment of Superannuation for 1 pensioner in April	[illegible]	0	[illegible]	Ongoing
	Employees' Gratuity	Payment of Gratuity to 1 pensioner in April	[illegible]	0	[illegible]	Ongoing
	Inter-State Workers	Payment of office expenses, the cumulative salary, telephone charges, staff tea allowance and other bills and payment of days pending	[illegible]	0	[illegible]	Ongoing
	Staff	Payment of Staff Salaries for 1 pensioner in April	[illegible]	0	[illegible]	Ongoing
	Other	Payment of Other Expenses for 1 pensioner in April	[illegible]	0	[illegible]	Ongoing
	Commission Expenses	Payment of the 1% [illegible] commission	[illegible]	0	[illegible]	Ongoing
INFORMATION, EDUCATION AND CAPACITY BUILDING						
	Health and Welfare	Payment of training and facilities accommodation to long stayed pensioners for Elect. and Non-Elect. [illegible]	[illegible]	0	[illegible]	Ongoing
	Commission Expenses	Payment of commission expenses and the marketing consultancy services	[illegible]	0	[illegible]	Ongoing
	No. 1 and Cash Debt Collecting Agency	Outstanding balance of the Elect. and Non-Elect. [illegible] and other Non-[illegible] related issues	[illegible]	0	[illegible]	Ongoing
SAVING CAPITAL MARKET						
	Subscription Receipts	Cash for sale coupons and subscriptions and the [illegible] contributions during the financial [illegible]	[illegible]		[illegible]	Ongoing

[illegible]						
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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	[illegible]	[illegible]	[illegible]	0	[illegible]	None
	[illegible]	[illegible]	[illegible]	0	[illegible]	None

	[illegible] Secondary School	Construction of 2 units classroom block complete with ceiling, plastering, painting and installation of light fittings. The ground floor was paid and the work started but stopped	[illegible]	[illegible]	[illegible]	Ongoing
	[illegible] Secondary School	Completion of [illegible] classroom block complete with ceiling, plastering, painting, tiling, electrical and sanitary installation and painting	[illegible]	[illegible]	[illegible]	Ongoing
	Idi Ishaga Secondary School	Completion of administration block comprising of 4 number offices and 2 staff toilets and construction of [illegible]	[illegible]	[illegible]	[illegible]	Ongoing
	[illegible] Secondary School	Completion of 2 number Staff house with 2 office complex including fencing and plastering and painting	[illegible]	[illegible]	[illegible]	Ongoing
	[illegible] Secondary School	Completion of 2 x 3 number classroom block including fencing, tiling and painting, floor tiling and painting	[illegible]	[illegible]	[illegible]	Ongoing
	[illegible] Secondary School	Completion of 2 x 3 number classroom block including ceiling, plastering, painting, tiling and electrical installation, water supply and sanitary installation, floor tiling and painting	[illegible]	0	[illegible]	New
	[illegible] Secondary School	Completion of 1 No classroom block including 2 classrooms including ceiling, tiling, painting and electrical installation	[illegible]	[illegible]	[illegible]	Ongoing
	[illegible] Secondary School	Completion of administration block comprising of 4 number offices and 2 staff toilets by fixing windows and doors, ceiling, flooring and painting	[illegible]	[illegible]	[illegible]	Ongoing

	[illegible] Secondary School	Completion of two classrooms complete	[illegible]	[illegible]	[illegible]	Done
	[illegible] Secondary School	Completing of a 3 storied classroom block, laboratory, including installation of gas boilers and fire extinguisher. Project has started to generate	[illegible]	[illegible]	[illegible]	Ongoing
	[illegible] Secondary School	Completion of a 3 storied classroom block including installation of gas boilers and fire extinguisher. Project has started to generate	[illegible]	[illegible]	[illegible]	Ongoing
	[illegible] Secondary School	Completion of a 3 storied classroom block including installation of gas boilers and fire extinguisher. Project has started to generate	[illegible]	[illegible]	[illegible]	Ongoing
	[illegible] Secondary School	Completion of a 3 storied classroom block including installation of gas boilers and fire extinguisher. Project has started to generate	[illegible]	[illegible]	[illegible]	Ongoing
	[illegible] Secondary School	Completing of a 3 storied classroom block including installation of gas boilers, fire extinguisher, Roofing and painting	[illegible]	[illegible]	[illegible]	Ongoing
	[illegible] Secondary School	Completion of two classrooms in progress	[illegible]	[illegible]	[illegible]	Done
	[illegible] Secondary School	Completion of a strong wall fence, a toilet, a drill hole and the installation of a water tank, flooring, painting and plastering	[illegible]	[illegible]	[illegible]	Ongoing
OTHER PROJECT						
	[illegible]	Completion of Tower Infrastructure assets at different towns, which is almost finishing in building, fencing, gate with strong, magnificent and beautiful, interior and exterior flooring and	[illegible]	[illegible]	[illegible]	Ongoing

		[illegible]				
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]						
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Ongoing
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Ongoing
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Ongoing
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Ongoing
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Ongoing
Total			[illegible]	[illegible]	[illegible]	

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REPUBLIC OF KENYA

STATE DEPARTMENT FOR PUBLIC WORKS

PROPOSED CLASSROOMS FOR MUTUGU PRIMARY SCHOOL

BILLS OF QUANTITIES

ISSUED BY;

REGIONAL WORKS OFFICE
P.O. BOX 455-60100
EMBU

REGIONAL WORKS OFFICER
EASTERN REGION
P. O. Box 455 -60100, EMBU
Date: 19.10.2021

PROPOSED CLASSROOMS FOR MUTUGU PRIMARY SCHOOL

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 1 -SUBSTRUCTURES (All Provisional)				
	Oversite excavations;				
A	Excavate to remove top vegetable soil not exceeding 1.5metres deep (average 200mm deep) from ground level and cart away from site	306	SM	50	15,300.00
	Excavations;				
B	Excavate for foundation trenches not exceeding 1.5metres deep	50	CM	300	15,000.00
C	Ditto column bases	67	CM	300	20,100.00
D	Ditto 1.5-3.0metres	75	CM	300	22,500.00
	Disposal;				
E	Cart away surplus excavated material	177	CM	200	35,400.00
F	Return, fill and rum selected excavated material around foundations	76	CM	100	7,600.00
G	Allow for keeping foundations free from water, mud, fallen materials.		ITEM		10,000.00
H	Allow for planking and strutting to sides of all excavations and keeping the same free from fallen materials		ITEM		10,000.00
	Hardcore or other approved filling, as described;				
I	300mm Thick Approved hardcore well rammed and consolidated under floors to the approval of the Engineer	214	SM	600	128,400.00
J	50mm Thick quarry dust blinding	214	SM	100	21,400.00
	Carried to Collection				**285,700.00**

PROPOSED CLASSROOMS FOR MUTUGU PRIMARY SCHOOL

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
A	**Anti-termite treatment;** Chemical anti-termite treatment as 'Premise SC 200' or equal and approved, executed complete by an approved specialist under a ten(10) year guarantee to surfaces of hardcore	214	SM	50	10,700.00
B	**Damp proofing;** 500 gauge polythene sheet	214	SM	200	42,800.00
C	**Concrete Work;** 50mm Thick blinding concrete; plain mix 1:4:8 under wall foundations	60	SM	1,000	60,000.00
D	Ditto but column bases	52	SM	1,000	52,000.00
E	**Insitu concrete grade 20/20 including vibrating around reinforcement in;** Strip footing	12	CM	12,000	144,000.00
F	Column bases	14	CM	12,000	168,000.00
G	Columns	4	CM	12,000	48,000.00
H	150mm Thick floor slab	228	SM	1,800	410,400.00
	Reinforcement [All Provisional]				
I	**High tensile steel reinforcement to B.S 4449 and 4466;** Assorted bars	2552	KG	180	459,360.00
J	Mesh reinforcement ref A142 weighing 2.22 kg per sq. metre in concrete slab including all necessary tying and support (No allowance for laps)	228	SM	500	114,000.00
	Carried to Collection				**1,509,260.00**

PROPOSED CLASSROOMS FOR MUTUGU PRIMARY SCHOOL

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	Sawn formwork as described to;				
A	Sides of strip foundation	169	SM	500	84,500.00
B	Edges of floor slab over 75mm but not exceeding 150mm high	72	LM	150	10,800.00
C	Sides of column bases	82	SM	500	41,000.00
D	Sides of columns	232	SM	500	116,000.00
	Walling				
	Rough chisel dressed natural stone wall, load bearing 7.0N/mm2, bedded and jointed in cement and sand 1:4 mortar reinforced with 25x20 gauge hooped iron at every alternate course as described in;				
E	200mm Thick walling	225	SM	1,400	315,000.00
	Plinths;				
F	15mm Thick Cement and sand (1:4) render	18	SM	600	10,800.00
G	Bituminous Painting	18	SM	300	5,400.00
	Carried to Collection				**583,500.00**
	COLLECTION				
	From page 1				285,700.00
	From page 2				1,509,260.00
	From above				583,500.00
	TOTAL FOR ELEMENT NO. 1 - SUBSTRUCTURES CARRIED TO SUMMARY				**2,378,460.00**

PROPOSED CLASSROOMS FOR MUTUGU PRIMARY SCHOOL

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 2 -REINFORCED CONCRETE STRUCTURE				
	Reinforced concrete class (20/20) as described in:-				
A	Beams/Ring beams	28	CM	12,000	336,000.00
B	Columns	12	CM	12,000	144,000.00
D	Staircase	3	CM	12,000	36,000.00
E	150mm thick suspended slab	227	SM	2,000	454,000.00
F	150mm thick landing	7	SM	2,000	14,000.00
	Reinforcement [Provisional]:				
	High tensile steel reinforcement to B.S 4449 and B.S 4466;				
G	Assorted bars	9780	KG	180	1,760,400.00
	Sawn formwork as described to;				
H	Sides and soffits of horizontal beams/ring beams	158	SM	450	71,100.00
J	Sides of columns	85	SM	450	38,250.00
K	Soffits of Suspended Slab	211	SM	450	94,950.00
L	Soffits of Landing	7	SM	450	3,150.00
M	Soffits and Sides of Sloping Staircase	12	SM	450	5,400.00
N	Sides of Suspended Slab Over 75mm but not exceeding 150mm	447	LM	150	67,050.00
P	Edge of riser/steps/strings over 75mm but not exceeding 150mm girth	60	LM	150	9,000.00
	TOTAL FOR ELEMENT NO. 2 - R.C. STRUCTURE CARRIED TO SUMMARY				**3,033,300.00**

PROPOSED CLASSROOMS FOR MUTUGU PRIMARY SCHOOL

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 3 -WALLING				
	Damp proof course				
A	200mm Hessian based bituminous based damp proof course	84	LM	200	16,800.00
	External Walls				
	Fine dressed Natural quarry stone bedded and jointed in cement and sand (1:3) mortar; reinforced with and including 25mm wide x 20 gauged hoop iron at every alternate course, raking where necessary in;				
B	200mm Thick walling	343	SM	1,400	480,200.00
	Internal Walls				
	Machine cut natural stone bedded and jointed in cement/sand (1:4) mortar, raking where necessary in;				
C	200mm Thick walling	98	SM	1,400	137,200.00
D	Extra over walling for finishing fair face as works proceed	343	SM	250	85,750.00
E	Ditto for raking cutting	23	LM	250	5,750.00
	TOTAL FOR ELEMENT NO. 3 - WALLING CARRIED TO SUMMARY				**725,700.00**

PROPOSED CLASSROOMS FOR MUTUGU PRIMARY SCHOOL

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 4 - ROOF CONSTRUCTION AND COVERING				
	Sawn cypress; second grade; well seasoned and treated with approved wood preservative; with and including all jointing and connections (packing piece, bolts etc.) as necessary; in roof				
	The following in trusses and/or independent members;				
A	150x50mm timber rafters/Valley Rafters	230	LM	400	92,000.00
B	Ditto tie beam	219	LM	400	87,600.00
C	150x50 mm timber struts and ties	366	LM	400	146,400.00
D	75x50mm Purlins	310	LM	300	93,000.00
E	150x50mm Wall plate; fixed to concrete or masonry with and including approved bolts at 1000mm centres	47	LM	400	18,800.00
F	200x25mm Wrought cypress fascia or barge board	77	LM	600	46,200.00
	ROOF COVERING				
	IT5 Box Profile roofing sheets on timber purlins(m.s) fixed with approved roofing nails;				
G	Roofing Tiles	303	SM	1,050	318,150.00
H	Matching Hip cap	28	LM	550	15,400.00
	Prepare and apply undercoat and two finishing coats of gloss oil paint; on wooden surfaces; to				
I	Fascia surfaces over 200 but not exceeding 300mm girth	77	LM	200	15,400.00
	TOTAL FOR ELEMENT NO. 4 - ROOF CONSTRUCTION AND COVERING CARRIED TO SUMMARY				**832,950.00**

PROPOSED CLASSROOMS FOR MUTUGU PRIMARY SCHOOL

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 5 - WINDOWS				
	Supply, assemble and fix the following standard section steel casement windows from complete with hinges, handles, catches, approved pattern integral burglar-proofing and building-in lugs all to Architect's detail. Include for finishes to reveals;				
A	Window size 1800 x 1400mm high	12	NO.	9,000	108,000.00
B	Window size 1800 x 1000mm high	8	NO.	7,000	56,000.00
	Glazing				
	4mm Thick clear sheet glass to metal in panes;				
C	Exceeding 0.10 sq. metres but not exceeding 0.5 sq. metres	44	SM	1,500	66,000.00
	Painting and decorating				
	Prepare metal surfaces; apply undercoat and two finishing coats first grade eggshell paint;				
D	General surfaces; window and burglar-proofing grilles (measured both sides)	88	SM	300	26,400.00
	TOTAL FOR ELEMENT NO. 5 - WINDOWS CARRIED TO SUMMARY				**256,400.00**

PROPOSED CLASSROOMS FOR MUTUGU PRIMARY SCHOOL

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 6 - DOORS				
	Metal Doors				
	Supply and fix the folllowing mild steel, one coat red oxide primer before erection, Composite purpose made steel doors with hinges doors complete with 50 x50 x3mm fixed angle frame, 2.5mm thick checked place built into panels complete locking devices				
A	Door size 1200x2400mm	4	NO.	16,500	66,000.00
	Prepare metal surfaces; apply undercoat and two finishing coats first grade eggshell paint;				
B	General surfaces (both sides measured)	26	SM	300	7,800.00
	TOTAL FOR ELEMENT NO. 6 - DOORS CARRIED TO SUMMARY				**73,800.00**

PROPOSED CLASSROOMS FOR MUTUGU PRIMARY SCHOOL

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 7 -FINISHES				
	Internal finishes				
	Floor Finishes				
	Cement and sand (1:4) screed to floor in:-				
A	32 mm thick steel trowelled smooth	368	SM	600	220,800.00
	Staircase Finishes				
	Cement and sand (1:4) screed in:-				
B	Landing, Treads, Risers and soffits	24	SM	600	14,400.00
	Wall finishes				
C	12 mm thick lime plaster (1:2:9) steel trowelled to walls	448	SM	600	268,800.00
	Ceiling Finishes				
D	12 mm thick lime plaster (1:2:9) steel trowelled to soffites	206	SM	500	103,000.00
	Prepare surfaces and apply undercoat and two finishing coats plastic emulsion paint on;				
E	Surfaces of walls and beams.	448	SM	200	89,600.00
F	Plastered ceiling soffits	206	SM	200	41,200.00
	External Finishes				
	Wall				
	15mm cement and sand (1:3) render, finished with woodfloat to:-				
G	Concrete surfaces of beams	241	SM	500	120,500.00
	Pointing and keying				
H	masonry wall	343	SM	500	171,500.00
	Prepare surfaces and apply undercoat and two finishing coats plastic emulsion paint on:				
I	Rendered surfaces	241	SM	200	48,200.00
	TOTAL FOR ELEMENT NO. 7 - FINISHES CARRIED TO SUMMARY				**1,078,000.00**

PROPOSED CLASSROOMS FOR MUTUGU PRIMARY SCHOOL

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	SUMMARY				
		From page			
1	SUBSTRUCTURES	3			2,378,460.00
2	R. C. STRUCTURE	4			3,033,300.00
3	WALLING	5			725,700.00
4	ROOFING	6			832,950.00
5	WINDOWS	7			256,400.00
6	DOORS	8			73,800.00
7	FINISHES	9			1,078,000.00
TOTAL FOR MEASURED WORKS CARRIED TO GRAND SUMMARY					**8,378,610.00**

PROPOSED CLASSROOMS FOR MUTUGU PRIMARY SCHOOL

ITEM	DESCRIPTION	UNIT	KSHS
	PRIME COSTS & PROVISIONAL SUMS		
	PROVISIONAL SUMS		
	The following provisional sums are to be measured on completion and priced in accordance with the rates contained in these bills of quantities or prorata thereto or deducted in whole if not required		
A	Allow a provisional sum of **5%** for Contingencies to be expended as whole or part with the authority of the client/Project Manager.	ITEM	418,930.50
B	Allow a provisional sum of **Kshs 175,000.00** for Project Managers expenses	ITEM	175,000.00
C	Allow a provisional sum of **Kshs 250,000.00** for Electrical Works	ITEM	250,000.00
	TOTAL FOR P.C. & PROVISIONAL SUMS CARRIED TO GRAND SUMMARY		**843,930.50**

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This BQ covers the following projects for the construction of a Dining Hall

1. Ngiranga Secondary School
2. Kanyenga Secondary School

APPRAISAL FOR

APPRAISAL FOR PROPOSED MULTIPURPOSE HALL & KITCHEN CONSTRUCTION AT KANYONGA/ NGENGE SECONDARY SCHOOL

PROPOSED DORMITORY BLOCK CONSTRUCTION

AT

SIYAKUDA BOYS' HIGH SCHOOL

APPROVAL

FOR

CONSTRUCTION WORKS

Issued by:

Regional Works Officer
Embu

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APPRAISAL FOR

PROPOSED MULTIPURPOSE HALL & KITCHEN CONSTRUCTION AT RUGOGWE SECONDARY SCHOOL

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This BQ covers the following project for the construction of a Dining Hall

1. **Bagegyo Secondary School**

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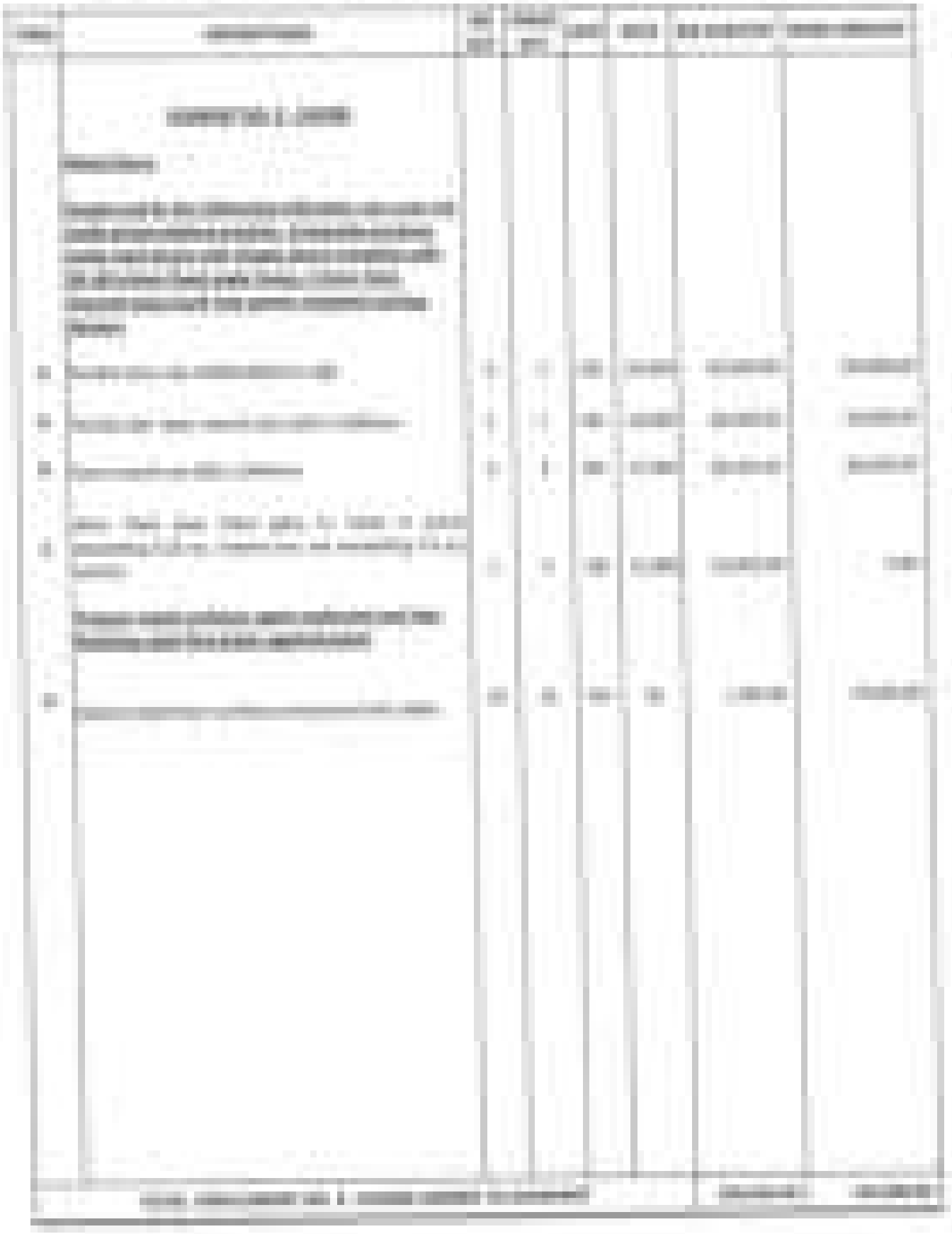

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REPUBLIC OF KENYA

STATE DEPARTMENT FOR PUBLIC WORKS

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

BILLS OF QUANTITIES

ISSUED BY;

REGIONAL WORKS OFFICE
P.O. BOX 455-60100
EMBU

REGIONAL WORKS OFFICER
EASTERN REGION
P. O. Box 455 -60100, EMBU
Date: 29.10.2021

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 1 -SUBSTRUCTURES (All Provisional)				
	Site Clearance;				
A	Clear the site of all bushes shrubs small trees and burn the arising spoil	120	SM	60	7,200.00
B	Allow for keeping foundations free from water, mud, fallen materials.		ITEM		5,000.00
C	Allow for planking and strutting to sides of all excavations and keeping the same free from fallen materials		ITEM		10,000.00
	Oversite excavations;				
D	Excavate to remove top vegetable soil not exceeding 1.5metres deep (average 200mm deep) from ground level and cart away from site	102	SM	350	35,700.00
	Excavations;				
E	Excavate for foundation trenches	64	CM	200	12,800.00
F	Ditto column bases	41	CM	200	8,200.00
	Disposal;				
G	Cart away surplus excavated material	45	CM	120	5,400.00
H	Return, fill and rum selected excavated material around foundations	60	CM	200	12,000.00
	Hardcore or other approved filling, as described;				
J	300mm Thick Approved hardcore well rammed and consolidated under floors to the approval of the Engineer	91	SM	1,200	109,200.00
K	50mm Thick quarry dust blinding	91	SM	1,300	118,300.00
	Carried to Collection				**323,800.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
A	**Anti-termite treatment;** Chemical anti-termite treatment as 'Premise SC 200' or equal and approved, executed complete by an approved specialist under a ten(10) year guarantee to surfaces of hardcore	91	SM	120	10,920.00
B	**Damp proofing;** 500 gauge polythene sheet	102	SM	80	8,160.00
	Concrete Work;				
C	50mm Thick blinding concrete; plain mix 1:4:8 under wall foundations	43	SM	1,100	47,300.00
D	Ditto but column bases	27	SM	900	24,300.00
	Insitu concrete grade 20/20 including vibrating around reinforcement in;				
E	Strip footing	9	CM	1,800	16,200.00
F	Column bases	7	CM	2,000	14,000.00
G	Columns	4	CM	12,000	48,000.00
H	100mm Thick floor slab	102	SM	800	81,600.00
I	Steps/Ramp	6	CM	12,000	72,000.00
J	**Precast concrete paving slabs laid and jointed in cement/sand (1:3) mortar** 600 x 600 x 50mm Thick paving slabs laid on and including 50mm bed of sand	104	SM	1,200	124,800.00
	Reinforcement [All Provisional]				
K	**High tensile steel reinforcement to B.S 4449 and 4466;** Assorted bars	1210	KG	200	242,000.00
L	Mesh reinforcement ref A142 weighing 2.22 kg per sq. metre in concrete slab including all necessary tying and support (No allowance for laps)	102	SM	250	25,500.00
	Carried to Collection				**714,780.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	Sawn formwork as described to;				
A	Sides of strip foundation	31	SM	380	11,780.00
B	Edges of floor slab/steps/ramp over 75mm but not exceeding 150mm high	84	LM	140	11,760.00
C	Sides of column bases	23	SM	450	10,350.00
D	Sides of columns	19	SM	450	8,550.00
	Walling				
	Rough chisel dressed natural stone wall, load bearing 7.0N/mm2, bedded and jointed in cement and sand 1:4 mortar reinforced with 25x20 gauge hooped iron at every alternate course as described in;				
E	200mm Thick walling	180	SM	1,900	342,000.00
	Plinths;				
F	15mm Thick Cement and sand (1:4) render to receive mazera stone cladding	28	SM	350	9,800.00
G	Mazeras cladding	28	SM	2,200	61,600.00
H	Polishing to Mazeras cladding	28	SM	350	9,800.00
	Carried to Collection				**465,640.00**
	COLLECTION				
	From page 1				323,800.00
	From page 2				714,780.00
	From above				465,640.00
	TOTAL FOR ELEMENT NO. 1 - SUBSTRUCTURES CARRIED TO SUMMARY				**1,504,220.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 2 -REINFORCED CONCRETE STRUCTURE				
	Reinforced concrete class (20/20) as described in:-				
A	Beams	6	CM	12,000	72,000.00
B	Columns	2	CM	13,000	26,000.00
D	Staircase	1	CM	15,000	15,000.00
E	150mm thick suspended slab	102	SM	1,300	132,600.00
F	150mm thick landing	4	SM	5,000	20,000.00
	Reinforcement [Provisional]:				
	High tensile steel reinforcement to B.S 4449 and B.S 4466;				
G	Assorted bars	2282	KG	170	387,940.00
	Sawn formwork as described to;				
H	Sides and soffits of horizontal beams	64	SM	300	19,200.00
J	Sides of columns	36	SM	300	10,800.00
K	Soffits of Suspended Slab	102	SM	200	20,400.00
L	Soffits of Landing	4	SM	300	1,200.00
M	Soffits and Sides of Sloping Staircase	8	SM	300	2,400.00
N	Sides of Suspended Slab Over 75mm but not exceeding 150mm	42	LM	1,400	58,800.00
P	Edge of riser over 75mm but not exceeding 150mm girth	22	LM	1,400	30,800.00
	TOTAL FOR ELEMENT NO. 2 - R.C. STRUCTURE CARRIED TO SUMMARY				**797,140.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 3 -WALLING				
	Damp proof course				
A	200mm Hessian based bituminous based damp proof course	103	LM	150	15,450.00
	External Walls				
	Fine dressed Natural quarry stone bedded and jointed in cement and sand (1:3) mortar; reinforced with and including 25mm wide x 20 gauged hoop iron at every alternate course, raking where necessary in;				
B	200mm Thick walling	111	SM	1,300	144,300.00
	Internal Walls				
	Machine cut natural stone bedded and jointed in cement/sand (1:4) mortar, raking where necessary in;				
C	200mm Thick walling	153	SM	1,300	198,900.00
	TOTAL FOR ELEMENT NO. 3 - WALLING CARRIED TO SUMMARY				**358,650.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 4 - WINDOWS				
A	**Window cill** 250 x 75 mm thick Precast Concrete Window Cill weathered and throated, reinforced as necessary, finished fair faced including hoisting and bedding in cement sand (1:4) mortar	12	LM	1,300	15,600.00
	Supply, assemble and fix the following standard section steel casement windows from complete with hinges, handles, catches, approved pattern integral burglar-proofing and building-in lugs all to Architect's detail. Include for finishes to reveals;				
B	Window size 1200 x 1200mm high	8	NO.	5,500	44,000.00
C	Window size 1000 x 1000mm high	2	NO.	5,400	10,800.00
	Glazing				
D	**4mm Thick clear sheet glass to metal in panes;** Exceeding 0.10 sq. metres but not exceeding 0.5 sq. metres	14	SM	1,400	19,600.00
	Supply and fix double metal curtain rods from "Challenge Engineering" or other equal and approved comprising of 25mm diameter wrought iron front, 16mm diameter rear rail complete with fixing brackets, curtain holding rings and decorative end stops all necessary paintwork				
E	Curtain rods	12	LM	2,000	24,000.00
	Painting and decorating				
	Prepare metal surfaces; apply undercoat and two finishing coats first grade eggshell paint;				
F	General surfaces; window and burglar-proofing grilles (measured both sides)	28	SM	500	14,000.00
	TOTAL FOR ELEMENT NO. 4 - WINDOWS CARRIED TO SUMMARY				**128,000.00**

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 5 - DOORS				
	Metal Doors				
	Supply and fix the folllowing mild steel, one coat red oxide primer before erection, Composite purpose made steel doors with hinges doors complete with 50 x50 x3mm fixed angle frame, 2.5mm thick checked place built into panels complete locking devices				
A	Door size 1200x2400mm	1	NO.	20,000	20,000.00
	Flush Doors				
	45mm (finished) Semi-Solid Cored Internal Quality Flush Door with veneers				
B	Door size 900 x 2400 mm high (300mm fanlight)	6	NO.	4,500	27,000.00
	Wrot Cypress				
C	150x50mm once rebated frame	34	LM	500	17,000.00
D	150x50mm twice rebated transome	5	LM	120	600.00
E	20x50mm architraves	34	LM	120	4,080.00
F	20mm quadrant beading	31	LM	70	2,170.00
G	20mm glazing beading	14	LM	100	1,400.00
	Glazing				
	4mm Thick clear sheet glass and glazing to metal in panes;				
H	Exceeding 0.10 sq. metres but not exceeding 0.5 sq. metres	2	SM	1,400	2,800.00
	Supply and fix the following iron mongery with matching screws				
J	100 mm Brass hinges	9	PRS	200	1,800.00
K	2-lever mortice lock complete with furniture	6	NO.	2,500	15,000.00
L	100mm tower bolt	1	NO.	3,500	3,500.00
	Prepare metal surfaces; apply undercoat and two finishing coats first grade eggshell paint;				
M	General surfaces (both sides measured)	10	SM	200	2,000.00
	TOTAL FOR ELEMENT NO. 5 - DOORS CARRIED TO SUMMARY				**97,350.00**

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 6 -FINISHES				
	Internal finishes				
	Floor Finishes				
A	**Cement and sand (1:4) backing screed to floor in:-** 32 mm thick to receive ceramic tiles	92	SM	500	46,000.00
	300x300x8mm thick coloured ceramic floor tiles as "Saj Ceramics" or other equal and approved finished and grouted to approval:				
B	Floor tiles; on level screed (m/s)	92	SM	1,300	119,600.00
C	100 mm high Skirting	184	SM	300	55,200.00
	Wall finishes				
D	12 mm thick lime plaster (1:2:9) steel trowelled to walls	409	SM	200	81,800.00
E	Ditto to receive ceramic wall tiles	30	SM	2,400	72,000.00
	200x200x6mm thick glazed ceramic wall tiles as "Saj Ceramics" or other equal and approved finished and grouted to approval:				
F	Wall tiles; on level screed (m/s)	30	SM	650	19,500.00
	Ceiling Finishes				
G	12 mm thick lime plaster (1:2:9) steel trowelled to soffites	92	SM	300	27,600.00
	Prepare surfaces and apply undercoat and two finishing coats plastic emulsion paint on;				
H	Surfaces of walls and beams.	409	SM	120	49,080.00
J	Plastered ceiling soffits	92	SM	150	13,800.00
	External Finishes				
	Wall				
K	**15mm cement and sand (1:3) render, finished with woodfloat to:-** Concrete surfaces of beams	30	SM	1,200	36,000.00
L	**Pointing and keying** masonry wall	111	SM	3,000	333,000.00
	Prepare surfaces and apply undercoat and two finishing coats plastic emulsion paint on:				
M	Rendered surfaces	30	SM	500	15,000.00
	TOTAL FOR ELEMENT NO. 6 - FINISHES CARRIED TO SUMMARY				**868,580.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	SUMMARY				
		From page			
1	SUBSTRUCTURES	3			1,504,220.00
2	R. C. STRUCTURE	4			797,140.00
3	WALLING	5			358,650.00
4	WINDOWS	6			128,000.00
5	DOORS	7			97,350.00
6	FINISHES	8			868,580.00
TOTAL FOR MEASURED WORKS CARRIED TO GRAND SUMMARY					**3,753,940.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 1 -REINFORCED CONCRETE STRUCTURE				
	Reinforced concrete class (20/20) as described in:-				
A	Beams	6	CM	12,000	72,000.00
B	Columns	2	CM	13,000	26,000.00
D	Staircase	1	CM	15,000	15,000.00
E	150mm thick suspended slab	102	SM	1,300	132,600.00
F	150mm thick landing	4	SM	5,000	20,000.00
	Reinforcement [Provisional]:				
	High tensile steel reinforcement to B.S 4449 and B.S 4466;				
G	Assorted bars	2282	KG	170	387,940.00
	Sawn formwork as described to;				
H	Sides and soffits of horizontal beams	64	SM	300	19,200.00
J	Sides of columns	36	SM	300	10,800.00
K	Soffits of Suspended Slab	102	SM	200	20,400.00
L	Soffits of Landing	5	SM	300	1,500.00
M	Soffits and Sides of Sloping Staircase	8	SM	300	2,400.00
N	Sides of Suspended Slab Over 75mm but not exceeding 150mm	42	LM	1,400	58,800.00
P	Edge of riser over 75mm but not exceeding 150mm girth	22	LM	1,400	30,800.00
	TOTAL FOR ELEMENT NO. 1 - R.C. STRUCTURE CARRIED TO SUMMARY				**797,440.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 2 -WALLING				
	External Walls				
	Fine dressed Natural quarry stone bedded and jointed in cement and sand (1:3) mortar; reinforced with and including 25mm wide x 20 gauged hoop iron at every alternate course, raking where necessary in;				
A	200mm Thick walling	111	SM	1,200	133,200.00
	Internal Walls				
	Machine cut natural stone bedded and jointed in cement/sand (1:4) mortar, raking where necessary in;				
B	200mm Thick walling	153	SM	1,200	183,600.00
	TOTAL FOR ELEMENT NO. 2 - WALLING CARRIED TO SUMMARY				**316,800.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 3 - WINDOWS				
A	**Window cill** 250 x 75 mm thick Precast Concrete Window Cill weathered and throated, reinforced as necessary, finished fair faced including hoisting and bedding in cement sand (1:4) mortar	12	LM	1,000	12,000.00
	Supply, assemble and fix the following standard section steel casement windows from complete with hinges, handles, catches, approved pattern integral burglar-proofing and building-in lugs all to Architect's detail. Include for finishes to reveals;				
B	Window size 1200 x 1200mm high	8	NO.	5,500	44,000.00
C	Window size 1000 x 1000mm high	2	NO.	5,400	10,800.00
	Glazing				
D	**4mm Thick clear sheet glass to metal in panes;** Exceeding 0.10 sq. metres but not exceeding 0.5 sq. metres	14	SM	500	7,000.00
	Supply and fix double metal curtain rods from "Challenge Engineering" or other equal and approved comprising of 25mm diameter wrought iron front, 16mm diameter rear rail complete with fixing brackets, curtain holding rings and decorative end stops all necessary paintwork				
E	Curtain rods	12	LM	2,000	24,000.00
	Painting and decorating				
	Prepare metal surfaces; apply undercoat and two finishing coats first grade eggshell paint;				
F	General surfaces; window and burglar-proofing grilles (measured both sides)	28	SM	300	8,400.00
	TOTAL FOR ELEMENT NO. 3 - WINDOWS CARRIED TO SUMMARY				**106,200.00**

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 4 - DOORS				
	Metal Doors				
	Supply and fix the folllowing mild steel, one coat red oxide primer before erection, Composite purpose made steel doors with hinges doors complete with 50 x50 x3mm fixed angle frame, 2.5mm thick checked place built into panels complete locking devices				
A	Door size 1200x2400mm	1	NO.	15,000	15,000.00
	Flush Doors				
	45mm (finished) Semi-Solid Cored Internal Quality Flush Door with veneers				
B	Door size 900 x 2400 mm high (300mm fanlight)	6	NO.	4,500	27,000.00
	Wrot Cypress				
C	150x50mm once rebated frame	34	LM	2,400	81,600.00
D	150x50mm twice rebated transome	5	LM	1,200	6,000.00
E	20x50mm architraves	34	LM	60	2,040.00
F	20mm quadrant beading	31	LM	60	1,860.00
G	20mm glazing beading	14	LM	60	840.00
	Glazing				
	4mm Thick clear sheet glass and glazing to metal in panes;				
H	Exceeding 0.10 sq. metres but not exceeding 0.5 sq. metres	2	SM	30	60.00
	Supply and fix the following iron mongery with matching screws				
J	100 mm Brass hinges	9	PRS	200	1,800.00
K	2-lever mortice lock complete with furniture	6	NO.	4,500	27,000.00
L	100mm tower bolt	1	NO.	5,000	5,000.00
	Prepare metal surfaces; apply undercoat and two finishing coats first grade eggshell paint;				
M	General surfaces (both sides measured)	10	SM	500	5,000.00
	TOTAL FOR ELEMENT NO. 4 - DOORS CARRIED TO SUMMARY				**173,200.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 5 -FINISHES				
	Internal finishes				
	Floor Finishes				
	Cement and sand (1:4) backing screed to floor in:-				
A	32 mm thick to receive ceramic tiles	92	SM	350	32,200.00
	300x300x8mm thick coloured ceramic floor tiles as "Saj Ceramics" or other equal and approved finished and grouted to approval:				
B	Floor tiles; on level screed (m/s)	92	SM	350	32,200.00
C	100 mm high Skirting	154	SM	120	18,480.00
	Wall finishes				
D	12 mm thick lime plaster (1:2:9) steel trowelled to walls	349	SM	130	45,370.00
D	Ditto to receive ceramic wall tiles	30	SM	1,900	57,000.00
	200x200x6mm thick glazed ceramic wall tiles as "Saj Ceramics" or other equal and approved finished and grouted to approval:				
B	Wall tiles; on level screed (m/s)	30	SM	1,800	54,000.00
	Ceiling Finishes				
D	12 mm thick lime plaster (1:2:9) steel trowelled to walls	92	SM	1,200	110,400.00
	Prepare surfaces and apply undercoat and two finishing coats plastic emulsion paint on;				
C	Surfaces of walls and beams.	409	SM	150	61,350.00
E	Plastered ceiling soffits	92	SM	300	27,600.00
	External Finishes				
	Wall				
	15mm cement and sand (1:3) render, finished with woodfloat to:-				
F	Concrete surfaces of beams	30	SM	1,500	45,000.00
	Pointing and keying				
G	masonry wall	111	SM	4,000	444,000.00
	Prepare surfaces and apply undercoat and two finishing coats plastic emulsion paint on plastered masonry and/or concrete surfaces:				
H	Beams	30	LM	1,600	48,000.00

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	TOTAL FOR ELEMENT NO. 5 - FINISHES CARRIED TO SUMMARY				975,600.00

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	SUMMARY				
		From page			
1	R. C. STRUCTURE	1			797,440.00
2	WALLING	2			316,800.00
3	WINDOWS	3			106,200.00
4	DOORS	4			173,200.00
5	FINISHES	5			975,600.00
TOTAL FOR MEASURED WORKS CARRIED TO GRAND SUMMARY					**2,369,240.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 1 -REINFORCED CONCRETE STRUCTURE				
	VIBRATED REINFORCED CONCRETE				
	Insitu concrete grade 20/20;				
A	Beams	2	CM	12,000	24,000.00
B	Columns	3	CM	13,000	39,000.00
	Reinforcement [Provisional]:				
	High tensile steel reinforcement to B.S 4449 and B.S 4466;				
C	12mm diameter	300	KG	170	51,000.00
D	8mm diameter	150	KG	170	25,500.00
	Sawn formwork as described to;				
E	Sides and soffits of horizontal beams	19	SM	500	9,500.00
F	Ditto columns	19	SM	500	9,500.00
	TOTAL FOR ELEMENT NO. 1 - R.C. STRUCTURE CARRIED TO SUMMARY				**158,500.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 2 -WALLING				
	External Walls				
	Fine dressed Natural quarry stone bedded and jointed in cement and sand (1:3) mortar; reinforced with and including 25mm wide x 20 gauged hoop iron at every alternate course, raking where necessary in;				
A	200mm Thick walling	120	SM	1,200	144,000.00
	Coping				
B	300x 50mm Thick precast concrete (1:2:4) coping, twice weathered and throated	45	LM	600	27,000.00
	Metal Work				
C	75mm diameter x 3 mm thick, circular hollow section steel posts casted in position complete with one end closed and welded, the other split fanged including one coat of red oxide primer, 1 undercoat and two finishing coats gloss enamel paint	27	LM	900	24,300.00
D	Steel grillage as per Architects details; Overall size 1200mm x 600mm	15	NO	3,240	48,600.00
	TOTAL FOR ELEMENT NO. 2 - WALLING CARRIED TO SUMMARY				**243,900.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 3 - ROOF CONSTRUCTION AND COVERING				
	Sawn cypress; second grade; well seasoned and treated with approved wood preservative; with and including all jointing and connections (packing piece, bolts etc.) as necessary; in roof				
	The following in trusses and/or independent members;				
A	100x50mm timber rafters	33	LM	80	2,640.00
B	Ditto tie beam	19	LM	80	1,520.00
C	100x50 mm timber struts and ties	56	LM	80	4,480.00
D	75x50mm Purlins	70	LM	60	4,200.00
E	100x50mm Wall plate; fixed to concrete or masonry with and including approved bolts at 1000mm centres	33	LM	80	2,640.00
F	200x25mm Wrought cypress fascia or barge board	18	LM	300	5,400.00
	ROOF COVERING				
	Decra roofing tiles on timber purlins(m.s) fixed with approved roofing nails;				
G	Roofing Tiles	63	SM	700	44,100.00
H	Matching Hip cap	19	LM	1,300	24,700.00
	Rainwater Goods				
	Galvanised metal sheet; gauge 24; pre-painted;				
J	100mm wide x 120mm deep Box gutter; fixed to fascia with and including steel flat brackets at 1500 mm (maximum) centres; stopped ends, outlets as necessary and closed ends.	6	LM	900	5,400.00
	Carried to Collection				**95,080.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
A	Extra over gutter for stopped ends.	2	NO	40	80.00
B	Ditto for rainwater outlets with nozzle for 100mm rainwater down pipe outlet.	1	NO	100	100.00
C	100 mm Diameter rain water downpipe; holder bats at 1500mm (maximum) centres including all fittings	24	LM	120	2,880.00
D	Extra over ditto for swan neck 1200mm projection.	1	NO	120	120.00
E	Ditto for shoe.	4	NO	100	400.00
	Prepare and apply undercoat and two finishing coats of gloss oil paint; on wooden surfaces; to				
F	Fascia surfaces over 200 but not exceeding 300mm girth	18	LM	200	3,600.00
	Prepare and apply one undercoat itching primer and three final coats first grade gloss oil paint on metal surfaces;				
J	General surfaces of mild steel gutters	30	LM	200	6,000.00
	Carried to Collection				**13,180.00**
	COLLECTION				
	From page 3				95,080.00
	From above				13,180.00
	TOTAL FOR ELEMENT NO. 3 - ROOF CONSTRUCTION AND COVERING CARRIED TO SUMMARY				**108,260.00**

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 5 - DOORS				
	Metal Doors				
	Supply and fix the folllowing mild steel, one coat red oxide primer before erection, Composite purpose made steel doors with hinges doors complete with 50 x50 x3mm fixed angle frame, 2.5mm thick checked place built into panels complete locking devices				
A	Door size 900x2400mm	1	NO.	15,000	15,000.00
	Prepare metal surfaces; apply undercoat and two finishing coats first grade eggshell paint;				
B	General surfaces (both sides measured)	4	SM	250	1,000.00
	TOTAL FOR ELEMENT NO. 4 - DOORS CARRIED TO SUMMARY				**16,000.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 6 -FINISHES				
	Floor Finishes				
	Cement and sand (1:4) backing screed to floor in:-				
A	32 mm thick to receive floor tiles	99	SM	500	49,500.00
	300x300x8mm thick coloured ceramic floor tiles as "Saj Ceramics" or other equal and approved finished and grouted to approval:				
B	Floor tiles; on level screed (m/s)	99	SM	1,500	148,500.00
C	100 mm high Skirting	82	SM	250	20,500.00
	Wall finishes				
D	12 mm thick lime plaster (1:2:9) steel trowelled to internal surfaces	147	SM	400	58,800.00
	Prepare surfaces and apply undercoat and two finishing coats plastic emulsion paint on plastered masonry or concrete surfaces:				
E	Plastered surfaces	147	SM	250	36,750.00
	15mm cement and sand (1:3) render, finished with woodfloat to:-				
F	External surfaces	147	SM	400	58,800.00
	Prepare surfaces and apply undercoat and two finishing coats plastic emulsion paint on plastered masonry and/or concrete surfaces:				
F	Rendered surfaces	147	SM	250	36,750.00
	Prepare and apply one undercoat itching primer and three final coats first grade gloss oil paint on metal surfaces;				
H	General surfaces of mild steel grilles	22	SM	250	5,500.00
	Carried to Collection				**415,100.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	Ceiling Finishes				
A	Softboard ceiling panels fixed to brandering (m.s)	37	SM	1,200	44,400.00
B	50 x 50 mm sawn cypress brandering	150	LM	150	22,500.00
C	75 x 50 mm wrot ypress moulded cornice; plugged	35	LM	250	8,750.00
	Prepare surfaces and apply undercoat and two finishing coats plastic emulsion paint on plastered masonry and/or concrete surfaces:				
D	Softboard surfaces	37	SM	250	9,250.00
E	Cornice surfaces	35	LM	120	4,200.00
	Carried to Collection				**89,100.00**
	COLLECTION				
	From Page 6				415,100.00
	From Above				89,100.00
	TOTAL FOR ELEMENT NO. 6 - FINISHES CARRIED TO SUMMARY				**504,200.00**

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT
	SUMMARY				
		From page			
1	R. C. STRUCTURE	1			158,500.00
2	WALLING	2			243,900.00
3	ROOF CONSTRUCTION AND COVERING	4			108,260.00
4	DOORS	6			16,000.00
5	FINISHES	7			504,200.00
	TOTAL FOR MEASURED WORKS CARRIED TO GRAND SUMMARY				**1,030,860.00**

REGIONAL WORKS OFFICER
EASTERN REGION
P. O. Box 455 -60100, EMBU
Date:.....

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

ITEM	DESCRIPTION	UNIT	KSHS
	PRIME COSTS & PROVISIONAL SUMS		
	PROVISIONAL SUMS		
	The following provisional sums are to be measured on completion and priced in accordance with the rates contained in these bills of quantities or prorata thereto or deducted in whole if not required		
A	Allow a provisional sum of **Kshs 175,000.00** for Contingencies to be expended as whole or part with the authority of the client/Project Manager.	ITEM	175,000.00
B	Allow a provisional sum of **Kshs 180,000.00** for Project Managers expenses	ITEM	180,000.00
C	Allow a provisional sum of **Kshs 450,000.00** for Electrical Works	ITEM	450,000.00
D	Allow a provisional sum of **Kshs 250,000.00** for Mechanical Works	ITEM	250,000.00
	TOTAL FOR P.C. & PROVISIONAL SUMS CARRIED TO GRAND SUMMARY		**1,055,000.00**

PS

REGIONAL WORKS OFFICER
EASTERN REGION
P. O. Box 455 -60100, EMBU
Date:.....

PROPOSED MBEERE SOUTH YOUTH EMPOWERMENT CENTRE

GRAND SUMMARY

ITEM	DESCRIPTION	KSHS CONTRACTOR'S USE	KSHS OFFICIAL USE
1	GROUND FLOOR		3,753,940.00
2	FIRST FLOOR		2,369,240.00
3	SECOND FLOOR		1,030,860.00
4	PRIME COST AND PROVISIONAL SUMS	1,055,000.00	1,055,000.00
	SUB-TOTAL(1)		**8,209,040.00**
5	ALLOW A PERCENTAGE (5%) ON SUB-TOTAL (1) FOR PMC		410,452.00
	SUB-TOTAL(2)		**8,619,492.00**
6	16% As Value Added Tax on SUB-TOTAL(2)		1,379,118.72
	TOTAL CARRIED TO FORM OF TENDER		**9,998,610.72**

Amount in words; Kenya Shillings Nine Million, Nine Hundred and Ninety Eight Thousand, Six Hundred and Ten and Seventy Two Cents Only.

NAME OF TENDERER.....

ADDRESS.....

SIGNATURE.....**STATUS**.....

DATE.....

NAME OF WITNESS.....

ADDRESS.....

SIGNATURE.....

DATE.....

REGIONAL WORKS OFFICER
EASTERN REGION
P. O. Box 455 -60100, EMBU
Date: 19·10·2021