

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
	<u>PROPOSED CONSTRUCTION OF ONE CLASSROOM AND A PIT LATRINE AT NDIGUINI PRIMARY SCHOOL</u>				
	<u>SUBSTRUCTURE WORK</u>				
	<u>Site preparation</u>				
A	Clear the site of all grass, bushes, scrub and burn all vegetation on site	87	sm		
	<u>Earthworks.</u>				
B	Excavate to reduced levels commencing from ground levels	87	sm		
C	Excavate foundation trenches in normal earth 0.00-1.5m deep commencing from stripped levels.	34	cm		
D	EXTRA over excavation on rock	2	cm		
E	Return fill in and rum selected excavated materials	12	cm		
	<u>Disposal of water.</u>				
F	Allow for keeping excavation free from water and mud including spring or running water by pumping or bailing any other means	ITEM			
	<u>Plunking and struting.</u>				
G	Allow for maintaining and supporting sides of excavations and keeping the same from fallen materials.	ITEM			
	<u>HARDCORE.</u>				
H	300mm thick depositing and compacting in making up levels in layers of 150mm maximum thickness	30	cm		
I	50mm thick murramm blinding to surfaces of fill	87	sm		
	<u>Antitermite treatment.</u>				
J	Chemical anti-termite treatment to surfaces of filling	87	sm		
	TOTAL CARRIED TO COLLECTION		PG1		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
	<u>Damp---proof membrane .</u>				
A	500 GAUGE polythene sheeting laid over hardcore	87	sm		
	<u>Concrete work.</u>				
	<u>Mass concrete class (1: 4:8) as described in :</u>				
B	50mm thick blinding under foundations trenches	30	sm		
	<u>Vibrated reinforced concrete class 20/20mm as described in:</u>				
C	Foundation trenches 200mm thick	6	cm		
D	150mm thick ground floor bed	87	sm		
	<u>Reinforcment.</u>				
	<u>Steel mesh fabric Reinforcement to B.S 4483</u>				
E	Mesh reinforcement Ref a 142 (weighing 2.22 kg per square metre) laid in bed.	87	sm		
	<u>Bars Reinforcement to B.S 4461 and B.S 4449 as described in foundation trenches .</u>				
F	12mm bars	176	kgs		
G	8mm bars	62	kgs		
	<u>Sawn formwork as described to:</u>				
H	Edges of slab 150mm high	38	lm		
	<u>Walling</u>				
	<u>Natural stone load bearing walling in cement mortar (1:3) with 25X 16 S.W.G as described:</u>				
I	200mm Foundation walling	64	sm		
	TOTAL CARRIED TO COLLECTION		PG2		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
A	<p><u>Plinths</u></p> <p>15mm cement and sand (1:4) render to plinth walls finished with a wood float</p>	12	sm		
B	Prepare and apply two coats of bituminous paint on rendered plinth walls	12	sm		
TOTAL CARRIED TO COLLECTION					
<p><u>SUBSTRUCTURE COLLECTION</u></p> <p>FROM PAGE 1</p> <p>FROM PAGE 2</p> <p>FROM PAGE ABOVE</p>					
TOTAL FOR SUBSTRUCTURE CARRIED TO SUMMARY			PG3		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
	<p><u>WALLING</u></p> <p><u>External walling</u></p> <p><u>Natural stone walling machine cut and bedded jointed and pointed in cement mortar(1:3)</u></p> <p>A 200mm thick</p> <p><u>Damp proofing .</u></p> <p>B 200mm wide B.S 743 type A bitumen hessian base 150mm laps (no allowance made for laps) horizontal 1 no layer bedded in cement sand (1 :3) mortar.</p>	116	sm		
	TOTAL WALLING CARRIED TO SUMMARY		PG4		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
	<u>FRAMES</u>				
	<u>RING BEAM</u>				
	<u>Vibrated reinforced concrete class 20</u>				
A	Ringbeams	3	cm		
	<u>Reinforcement (All provisional)</u>				
	<u>High yield deformed steel bars reinforced to B.S 4461</u>				
B	12mm diameter bars	136	kgs		
C	8mm diameter bars	96	kgs		
	<u>Formwork</u>				
D	Sides and soffits of ring beam	38	sm		
	<u>STEEL COLUMNS.</u>				
E	Circular hollow section columns member 75mm outside diameter by 5mm and 3m high fixed to concrete weighing 2.6kgs per linear metre with base plate embedded in concrete at 2m c/c.	27	lm		
	<u>Sundries</u>				
F	Plate 4mm thick 200 x 200 with four holes for bolts.	3	sm		
G	Prepare touch up primer and apply three coats first quality hard gloss paint on structural steel members.	27	lm		
	TOTAL FRAMES CARRIED TO SUMMARY		PG5		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
	<u>ROOFING WORKS</u>				
	<u>Wrote cypress</u>				
A	100 X 50mm sawn cypress wall plate bolted to ring beam.	52	lm		
	<u>The following in 13 no timber trusses sawn cypress well spiked and treated spanning 7.8m x 1200mm c/c.</u>				
B	100 x 50 mm rafters.	56	lm		
C	100 x 50mm tie beams.	80	lm		
D	100 x 50mm struts or ties.	48	lm		
E	150 x 50mm king post.	18	lm		
F	75 x 50mm purlins.	136	lm		
G	Supply and fix prepainted box profile galvanised gauge 28, from MRM or other equal and approved on timber roof structure (blue in colour).	116	SM		
H	22.5 pitch				
H	Ditto standard ridge hip and valley cover.	10	LM		
I	200mm x 25mm sawn cypress fascia board.	42	LM		
	<u>RAIN WATER GOODS</u>				
J	150mm diameter heavy gauge UPVC rain water gutter fixed to fascia board bats @ 600c/c.	20	LM		
K	Extra over ditto for angles	8	NO		
L	DITTO: FOR stopped end gutters	4	no		
M	100mm diameter heavy gauge upvc rain water down pipe fixed to wall with clips at 900c/c	9	lm		
N	EXTRA: Over down pipe for swanneck projecting	4	no		
O	DITTO swannec bend.	8	no		
	TOTAL FRAMES CARRIED TO SUMMARY		PG6		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
	<u>WINDOWS</u>				
	<u>Supply and fix the following standard welded mild steel casement windows in 20mm thick heavy duty Z section fixed to jams with lugs and all fixing and opening accessories complete with burglar proofing grille and permanent vents with gauze wire and primer coat</u>				
A	Overall size 1500mm x 1200mm high	5	no		
	<u>Glazing</u>				
	<u>4 mm thick clear sheet glass fixed to metal with putty glazing compound in</u>				
B	Panes of any size	6	sm		
C	Obscured glass panes	4	sm		
	<u>PAINTING AND DECORATION</u>				
	<u>Apply one coat and two finishing coats of gloss oil paint as "crown paints" or other approved to metal works in :</u>				
D	General surfaces of windows internally	9	sm		
E	Ditto: externally	9	sm		
	<u>WINDOW CILL</u>				
	<u>clay quarry tiles to regular pattern bedding jointing and pointing in pigmented mortar (1 ; 4) 10mm flush joints.</u>				
	150 x 150 x 6mm butt joints straight both sides ways to cement sand (m/s) generally to window cills.	8	lm		
	TOTAL FRAMES CARRIED TO SUMMARY		PG7		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
	<u>DOORS AND DOORS FINISHES</u>				
	<u>Steel casement doors</u>				
	<u>Supply and fix mild steel casement doors comprising</u> <u>50 x50 x 3mm thick SHS support framing built into</u> <u>wall and including 8 no 250 x80 x 6mm thick metal fixing</u> <u>cramps weided into frame on one end and the other</u> <u>built into wall 50 x50 x 3mm thick SHS frame all round</u> <u>100 x 100 x 3mm thick mullions and transomes 16 gauge</u> <u>steel sheet infill to panels 1200 x 1200 mm high top</u> <u>panel infilled with and including 5mm thick obscured</u> <u>glass 3 pairs heavy duty tailor made steel hinges</u> <u>including for providing barrel bolts 1 NO lever lock</u> <u>300 x 500 high fixed light panel to every leave</u> <u>manufacturers primer coat before delivery to site and</u> <u>including all necessary welding and grinding welds</u> <u>smooth</u>				
A	Size 920 x 2400mm high single doors with 5mm thick obscured glazed fixed light panes	1	no		
B	Two lever mortice lock complete with handles.	1	no		
C	38mm diameter rubber door stop	1	no		
	<u>prepare surfaces and apply undercoat and two finishing</u> <u>coats of gloss oil paints as "crown paint" to metalwork</u>				
D	General surfaces	4	sm		
	TOTAL FRAMES CARRIED TO SUMMARY		PG8		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
	<u>EXTERNAL FINISHES.</u>				
A	Hack out joints and apply 12 x 12mm cement and sand (1 : 3) mortar horizontal recessed pointing to natural stones walling and bagwash out external walls. using penetrating primer.	98	sm		
	<u>12mm thick cement ,sand render with wood float finish as described to:</u>				
B	Concreted surfaces and external walls	28	sm		
	<u>Painting and decorations</u>				
	<u>Prepare and apply one undercoat and two finishing exterior quality plastic emulsion paint on:</u>				
C	Fair faced surfaces of concrete ring beams and external walls.	28	sm		
	<u>PAVED AREAS</u>				
	<u>The works measured here under only including the following :</u>				
	_____ Paved area around the perimeter of the building block.				
C	Excavate oversite average 250mm deep to remove top soil load up wheel and deposit about 100m away.	3	cm		
D	200mm thick selected compacted murrum filling to make up levels under paving slabs.	2	cm		
E	50mm thick sand bed on compacted murrum filling to receive paving slabs	21	sm		
F	Approved chemical insecticide treatment prepared and applied according to the manufacturers printed instructions	21	sm		
	TOTAL WALLING CARRIED TO SUMMARY		PG9		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
	<u>INTERNAL FINISHES</u>				
A	Hack out joints and apply 12mm thick gauged lime plasters (1 : 2) in two coats finished with steel trowed on natural stone walling and beam.	98	sm		
	<u>Painting and decorations</u>				
	<u>Prepare and apply one undercoat and two finishing coats plastic emulsion paint on:</u>				
B	Plastered surfaces	98	sm		
	<u>FLOORS</u>				
	<u>Insitu cement and sand (1:3) screed beds with steel trowelled finish on concrete .</u>				
C	32mm screed finished with red oxide	98	sm		
D	100mm high skirting	12	lm		
	TOTAL WALLING CARRIED TO SUMMARY		PG10		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
	<u>SUMMARY</u>				
A	SUBSTRUCTURES WORK				
B	WALLING				
C	FRAMES				
D	ROOFING WORK				
E	WINDOWS				
F	DOORS				
G	EXTERNAL WORKS				
H	INTERNAL WORKS				
	TOTAL BUILDERS WORKS				
	TOTAL WALLING CARRIED TO SUMMARY		PG11		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
	<u>ELECTRICAL WORKS</u>				
	<u>Supply, install, test and commission the following</u>				
A	<u>POWER MAINS</u>				
i)	Install a standard gauge single tariff weather proof meter box with all accessories incoming single phase supply line by the K.P.L.C	1	NO		
ii)	Sub-mains cable being 10mm x 3 single core copper conductor cables drawn in 32mm p.v.c / H.G conduits with all accessories from the meter box to the consumers units	8	MTRS		
iii)	240V x 4 ways S.P.N consumer units flush mounted and complete with 100A integral isolator being havel to accommodate the following circuit brakes	1	NO		
	6A x 240v S. P .N.M.BS	2	NO		
	32A X240v S.P..N.M.C BS	2	NO		
B	<u>LIGHTING POINTS</u>				
	Lighting points wired using 3 X 1.5mm single core copper conductor cables drawn in 20mm p .v .c (h.g) conduits with all accessories but without the lighting fittings.	4	NO		
C	<u>LIGHTING FITTINGS</u>				
i)	1200mm x 36w single battern fluorescent fittings complete with tubes being havel	4	NO		
ii)	80- 100w spherical bulkhead fittings complete with energy savers being philips	2	NO		
	TOTAL CARRIED TO COLLECTION		PGE12		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
D	<u>LIGHTING SWITCHES</u>				
i)	6A x 240v white moulded plate and flush mounted switches complete with cripsal B.G Screw cover being one way one gang	2	NO		
ii)	6A M.K plate switches white moulded with B.G screw cover being.	8	NO		
	1 way 1 gang	4	NO		
	2way 1 way gang	1	NO		
	Intermediate switch	1	NO		
E	<u>Power points</u>				
i)	power points wired using 3 x2.5 mm single core copper conductor cables drawn in 25mm p.v.c conduits (H.G) complete with all necessary accessories but without the socket outlets	1	NO		
ii)	13A x 240v white moulded plate and flush mounted socket outlets complete with cripsal B.G screw cover being twin outlets	1	NO		
F	<u>EATHING</u>				
i)	300mm x 300mm earthing chamber complete with all accessories and concrete manhole cover with all accessories to K.P.L.C earthing specifications	1	ITEM		
G	Allow for a single phase K .P.L.C supply line	1			
	TOTAL CARRIED TO COLLECTION				
	1 TOTAL brought down from pg E/1				
	2 Total brought from page above				
	TOTAL ELECICAL WORK CARRIED TO GRAND SUMMARY		PG13		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
	<u>PIT LATRINE</u>				
	<u>Substructures work.</u>				
	<u>Excavations.</u>				
A	Clear the site of all bushes and undergrowth including grubbing up of roots and disposal off as directed.	24	sm		
B	Excavate oversite average 150mm deep to remove vegetable soil load up wheel and cart away.	24	sm		
C	Excavate oversite trenches for strip foundation not exceeding 1.5metres commencing from stripped level.	5	cm		
D	Excavate pit 6.5m deep in stages 3metres commencing from stripped level 1.5metres deep onwards.	68	cm		
E	Compact and grade bottoms of excavations to falls.	10	sm		
F	Return , fill and ram with selected excavated materials around excavations.	2	cm		
G	Load and cart away surplus excavated materials and spread on site as directed.	2	cm		
H	250mm imported hardcore filling handpacked well watered and compacted laid in layers of 125mm thick.	4	cm		
I	50mm thick murrum layers or other equal and approved blinding materials to the surface of hardcore rolled smooth to receive polythene sheetings.	13	sm		
J	Treat the surface of blinding hardcore with an approved anti-termite treatment	13	sm		
K	500 gauge polythene sheeting with sides and end laps as described laid on blinding materials.	13	sm		
L	Allow for keeping the excavation free from mud and all water.		ITEM		
	TOTAL CARRIED TO CORRECTION		PG14		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
A	Allow for plunking and strutting to uphold sides of excavations.		ITEM		
	<u>Plain concrete (1: 4: 8) in:</u>				
B	50mm thick blinding to foundations	36	SM		
	<u>Vibrated reinforced concrete (1:2;4) as described in:</u>				
C	Strip footing	4	CM		
D	Suspended beams and tie beams.	3	CM		
E	150mm thick suspended slab.	24	SM		
	<u>Sawn formwork to:</u>				
F	Sides of strip footing 150 to 225mm high.	36	LM		
G	Soffits the of slab	32	sm		
H	Sides and soffits of beams	12	sm		
I	Edges of floor bed 75-150mm high	18	lm		
	<u>Fix only bars reinforcement including bending hooks tyingwire cutting spacers blocks and supporting all in position</u>				
	<u>High tensile square twisted bars B,S 4461 as described in:</u>				
J	8mm diameter bars	142	kg		
K	10mm diameter bars	210	kg		
L	12mm diameters bars	145	kg		
M	Leave or form 200 x 200 mm opening in 100mm thick suspended concrete slab.	4	no		
N	Ditto; 100mm diameter wide	1	no		
	TOTAL CARRIED TO CORRECTION		PG15		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
A	Form 150mm diameter half round channel 150mm thick surface slab <u>Natural stone (rough chiesel dresed) walling in cement and sand (1:3) mortar and including reinforced with 20 x 3mm thick hoop iron in every alternate course in:</u>	8	lm		
B	200mm thick foundation wall. <u>plinths</u>	52	sm		
C	12mm thick cement and sand (1:3) plasters to plinths and pit internally.	8	sm		
D	Prepare and apply three coats bituminous paint to plastered plinths.	8	sm		
TOTAL CARRIED TO CORRECTION			PG16		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
		QTYS			
	<u>SUPERSTRUCTURES WALLING</u>				
A	150mm wide approved quality 3- ply bituminous felt damp proof course under walls.	18	lm		
B	100mm wide ditto;	18	lm		
	<u>Machine cut dressed stones walling in cement and sand (1:4) mortar including reinforcing with 20 x3mm thick hoop iron in every alternate course.</u>				
C	150mm thick walling	60	sm		
D	100mm thick walling	48	sm		
E	Extra over natural stone walling for raking joints and pointing with recessed joints externally.	44	sm		
F	Raking and cutting 150mm thick wall.	14	lm		
	<u>Vibrated reinforced concrete (1: 2: 4/20-20mm aggregate a described in:</u>				
G	Ring beam	2	cm		
	<u>Steel reinforcement</u>				
	<u>Steel reinforcement as described including cutting to length bending and fixing including all necessary tying wires and spacers blocks (all provisional)</u>				
	<u>High tensiles square twisted bars b,s 4461 as described in;</u>				
H	12mm diameter	102	kg		
I	8mm diameter	94	kg		
	<u>Sawn formwork as described to:</u>				
J	Sides and soffits of ring beams (provisional)	24	sm		
	TOTAL CARRIED TO CORRECTION		PG17		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
		QTYS			
	<u>ROOFING WORK</u>				
A	28 gauge galvanised corrugated iron sheets as "dumuzas" or equally and approved fixed onto purlins	42	sm		
B	Ditto: translucent sheets	1	sm		
C	Ditto: standard ridge cap	6	lm		
	<u>The following in pressure impregnated second grade sawn cypress timber well seasoned /celcured.</u>				
D	100 x 50mm rafters @ 1.2 c/c	8	lm		
E	Ditto tie beams	17	lm		
F	75 x 50mm struts and ties	12	lm		
G	Ditto purlins	41	lm		
H	100 x 50mm wall plate bolted to wall with and including 12mm diameter bolts 160mm long.	18	lm		
I	Bore hole in 50mm thick timber for 12mm diameter bolts	14	NO		
J	Make mortice in reinforced concrete or masonry walling for 12mm diameter bolts.	14	no		
	<u>Fascia board</u>				
K	150 x 25mm thick wrot cypress fascia /barge boards fixed to ends of rafters(m/s)	22	lm		
	<u>Painting</u>				
	<u>knot, prime stop prepare and apply three coats oil gloss paint to:</u>				
L	Surfaces of timber 100-200mm girth.	22	lm		
	TOTAL CARRIED TO CORRECTION		PG18		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
	<p><u>DOORS</u></p> <p>A Fix only 760 x 2030 x 45mm match boarded ledged and braced door in prime grade wrot cypress timber</p> <p><u>Wrot cypress or other equal and approved :</u></p> <p>B 100mm x 50mm frame with two labours plugged.</p> <p><u>Fix only the following ironmongery with screws to match (all to approval).</u></p> <p>C Lever Mortice lock complete with set lever brass.</p> <p>D 100mm steel hinges .</p>	4	no		
	TOTAL CARRIED TO CORRECTION		PG19		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
	<u>FINISHES</u>	QTYS			
	<u>FLOORS</u>				
	<u>Cement and sand (1:4) screed smooth trowelled including red oxide additive to approval.</u>				
A	38mm thick	60	sm		
B	100 x 20mm skirting	12	lm		
	<u>WALLS FINISHES</u>				
	<u>12mm thick gauged lime (1:2:9) rendering to:</u>				
D	Beams	8	sm		
	<u>12mm thick gauged lime (1:2:9) plaster to :</u>				
E	Natural stone walling internaly and all mouldings.	86	sm		
	<u>Prepare and apply three coats vintyl matt emulsion paint to:</u>				
F	Rendered surfaces of beams	8	sm		
G	Plastered surfaces of walls.	86	sm		
	TOTAL CARRIED TO CORRECTION		PG20		

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
		QTYS			
	<u>SUMMARY PAGE</u>				
A	SUBSTRUCTURES WORK				
B	EXTERNAL AND INTERNAL WALLING				
C	ROOFING WORK				
D	DOORS AND WINDOWS				
E	ALL FINISHES				
	TOTAL BUILDERS WORK				
	<u>PROVISIONAL SUM</u>				
A	Allow provisional sum of fifty thousand only for contingencies to be deducted in whole or by part as directed by the project manager				50,000
B	Allow provisional sum of thirty thousands shilling for project management to be deducted in whole by part as directed by the project manager				30,000
	Allow provisional sum of seven thousands seven hundred and eighty project management to be deducted in whole by part as directed by the project manager				7,780
	TOTAL PROVISIONAL SUM CARRIED TO SUMMARY		PG21		87,780

ITEM	DESCRIPTION	QTYS	UNITS	RATES	AMOUNT
	<p><u>GRAND SUMMARY</u></p> <p>A TOTAL BUILDERS WORKS</p> <p>B TOTAL ELECTRICAL WORKS</p> <p>C TOTAL FOR THE TOILET</p> <p>D TOTAL PROVISIONAL SUMS</p>				
	TOTAL CARRIED TO FORM THE TENDER		PG22		
	<p>AMOUNT IN WORDS..... </p> <p>COMPANY NAMESTAMP.....</p> <p>SIGNATURE.....DATE.....</p>				

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