

**BILL OF QUANTITIES - REHABILITATION OF 3 CLASSROOMS FOR AGARAN SCHOOL IN GALKAYO, PUTLAND**

Item	Description	Quantity	Unit	Rate	USD
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Item	Description	Quantity	Unit	Rate	USD
	<b><u>ELEMENT NO 1</u></b>				
<b>1</b>	<b><u>SUBSTRUCTURES ( ALL PROVISIONAL )</u></b>				
	<b><u>CONSTRUCTION OF 2.0M WIDE VERANDAH FOR CLASSROOMS</u></b>				
	<b><u>Excavations Works</u></b>				
1.1	Excavate for strip footing trenches 600mm wide for verandah walls commencing at oversite level and not exceeding 1000mm deep in any material as directed by the Engineer	23	C.M		-
1.2	Return, fill and ram selected excavated materials around foundations of classrooms verandah in 150mm deep layers	13	C.M		-
	<b><u>Hardcore</u></b>				
1.3	Place and arrange 400mm thick bed of quarry stones or equivalent material, well compacted and rammed in 150mm layers in verandah to approval.	69	S.M		-
1.4	50 mm Thick stone dust/murram blinding to surface of hardcore filling to classrooms verandah	69	S.M		-
	<b><u>Anti-termite treatment</u></b>				
1.5	"Gladiator" Chemical anti-termite treatment executed complete by a specialist under a <b><u>ten year guarantee</u></b> to blinded surfaces of hardcore (including over foundation walling) to classrooms verandah	69	S.M		-
	<b><u>Damp-proof membrane</u></b>				
1.6	1000 Gauge polythene or other equal and approved damp proof membrane laid under floor bed with 300mm side and end laps to classrooms verandah	69	S.M		-
	<b><u>Concrete work</u></b>				
	<u>Mass concrete 1:3:6 mix as described in:</u>				
1.7	50 mm Thick (average) blinding under concrete strip footing classrooms verandah	23	S.M		-
	<b><u>In-situ vibrated reinforced concrete 1:2:4 mix (Class 20/20 mm) as described in:</u></b>				
1.8	Strip footing to classrooms verandah	5	C.M		-
1.9	100mm thick floor slab to classrooms verandah	69	SM		-
1.10	BRC A142 mesh reinforcement to classrooms verandah	69	SM		-
	<b><u>Supply and fix steel reinforcement including cutting bending, hooking, tying and supporting</u></b>				
1.11	12mm Diameter bars to classrooms verandah footings	237	K.G		-
<b><u>Carried to collection</u></b>					-

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Item	Description	Quantity	Unit	Rate	USD
	<b>Walling:</b> <u>Approved cement sand blocks walling bedded and jointed in cement and sand (1:3) mortar including 25 x 20 gauge hoop iron reinforcement at every alternate course as described in:</u>				
1.12	200mm thick masonry walls on verandah foundation	29	S.M		-
	<b>Sawn formwork to:</b>				
1.13	Vertical sides of strip footing to classrooms and verandah	15	S.M		-
1.14	Edges of ground floor bed 75-150mm girth on classrooms and verandah	38	LM		-
	<b>Verandah pillars</b>				
1.14	3500mm long 75mm diameter class B pipes as steel pillars to the verandah and fabricated at top to support a 150x50mm timber section and the bottom 500mm to be embedded in concrete and foundation walls	12	NO.		-
<b>Carried to collection</b>					-

Item	Description	Quantity	Unit	Rate	USD
	<b><u>COLLECTION</u></b>				
	From Page No 1/8				-
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<b>Total Carried forward to summary page</b>					-

Item	Description	Quantity	Unit	Rate	USD
<b>ELEMENT NO 2</b>					
<b>2</b>	<b>FLOORING</b>				
2.1	Hack up existing screed on internal floors and prepare surface to receive new screed m/s: cart away debris	144	S.M		-
<b>Total Carried to summary page</b>					-
<b>ELEMENT NO 3</b>					
<b>3</b>	<b>WALLING</b>				
3.1	Hack out plastered wall surfaces average 15mm thick on both faces internally and externally: prepare surface to receive new plaster m/s	595	S.M		-
<b>Total Carried to summary page</b>					-
<b>ELEMENT NO 4</b>					
<b>4</b>	<b>ROOF STRUCTURE</b>				
4.1	Allow for the demolition of existing roof structure and dispose off all materials to a designated area by the local administration	1	Item		-
<u>Supply and fix the following in treated softwood cypress trusses 23No. Spanning 10100mm with a rise of 1400mm including fabrication, hoisting into position</u>					
4.2	100 x 50 mm wall plates and ridges	90	L.M		-
4.3	75 x 50 mm Purlins	270	L.M		-
4.4	150 x 50mm rafters	240	L.M		-
4.5	150 x 50 mm tie beams	160	L.M		-
4.6	100 x 50 mm Strut or ties	195	L.M		-
4.7	225 x 25 mm Fascia board	75	L.M		-
4.8	150mm x 50mm timber beam supporting the truss rafters and resting on the steel pillars	25	L.M		-
4.9	<b>Roof covering</b> 28 Gauge corrugated iron sheets, prepainted including all nails and fixing to approval	295	S.M		-
<b>Total Carried forward to summary page</b>					-

Item	Description	Quantity	Unit	Rate	USD
	<b>ELEMENT NO 5</b>				
<b>5</b>	<b><u>DOORS</u></b>				
	<u>Supply steel door in 38mmx25mmx3mm thick RHS framing and 3mm thick sheet plate, 3 pairs of heavy quality brass oxidized hinges, two number 150mm barrel bolts and a 264 "tri-circle" or equal approved padlock with a set 3 original keys. The door to be painted in 3coats of gloss paint</u>				
5.1	Door size 900 x 2100 mm high overall	3	NO.		-
	<b>Total Carried to summary page</b>				-
	<b>ELEMENT NO 6</b>				
<b>6</b>	<b><u>Windows</u></b>				
	<u>Supply all materials and fabricate steel casement windows size 1000x1200mm high, window type W1, double leafed in 38mmx38mmx3mm angle framing and 16mm round bars grills @200mm c/c spacings vertically. Windows to open outwardly. Rate to include painting of the steel sections in 3 coats gloss paint, fixing of window hinges and locking system</u>				
6.1	Window size 1000 x 1200mm high	15	NO.		-
	<b>Total Carried to summary page</b>				-

Item	Description	Quantity	Unit	Rate	USD
	<b><u>ELEMENT NO 7</u></b>				
7	<b><u>FINISHES</u></b>				
	<b><u>Flooring</u></b>				
	<b>Cement/sand (1:3) screed as described to:</b>				
7.1	40mm Thick cement and sand (1:3) screed with red oxide oxide powder and smooth steel trowel finish to floor	154	S.M		-
	<b><u>Walling</u></b>				
	<b><u>15 mm Thick cement/sand (1:3) plaster as described to:</u></b>				
7.2	External and internal faces of walls	595	S.M		-
	<b><u>Blackboards</u></b>				
7.3	Purpose made 4000x1400mm wide, 25mm thick blackboard plugged or cast smooth to to blockwork (mortar mix 1:3, cement and sand) and complete with 50x25mm thick chamfered frame all round and chalk board dust	3	No		-
	<b><u>Plinths</u></b>				
7.4	15mm thick cement and sand (1:4) render to plinths	9	SM		-
7.5	Prepare and apply three coats bituminous based paint on rendered plinth surfaces	9	SM		-
	<b><u>Ceiling</u></b>				
7.6	12mm ceiling board including brandering with 50 x 50mm thick cypress brandering at 600mm centres both ways	154	S.M		-
7.7	75 X 25mm moulded coved cornice plugged to wall	94	L.M		-
7.8	Prepare and apply three coats of emulsion paint to the soffits of ceiling board	154	S.M		-
	<b><u>Painting</u></b>				
7.9	Prepare surface and paint one undercoat and two coats of emulsion paint on external and internals walls to approval	595	S.M		-
7.10	Prepare surface and paint one undercoat and two coats of gloss paint black on the blackboard surface 4mx1.4m to internal wall at front of the classroom as per the drawings	17	S.M		-
7.11	Prepare and apply one undercoat and 2 coats of gloss paint on fascia boards	18	S.M		-
<b><u>Total Carried to summary page</u></b>					-

Item	Description	Quantity	Unit	Rate	USD
8	<p><b><u>ELEMENT NO 8</u></b></p> <p><b><u>ELECTRICAL INSTALLATIONS</u></b></p> <p><u>Supply the following electrical wiring, english type to approval including fixing, connecting, cutting holes, chasings, conduiting and making good all finishes.</u></p>				
8.1	Allow sum for wiring, conduiting, chasing, making good to all finishes, connection and testing to the whole building to approved standards	1	Item		-
8.2	One way One Gang Switch	2	NO.		-
8.3	Two gang two way switch	3	NO.		-
8.4	Bulbs complete with bulb holders	4	NO.		-
8.5	Flourescent Light	20	NO.		-
<b><u>Total Carried to summary page</u></b>					-

Item	Description	USD
ELE. NO	<b>BILL NO. 2</b>	
	<b>SUMMARY PAGE</b>	
	<b>ELEMENT NAME</b>	
	<b>PAGE NO</b>	
1	Substructure works for construction of classrooms verandah	
	3/8	-
2	Flooring	
	4/8	-
3	Walling	
	4/8	-
4	Roof structure	
	4/8	-
5	Doors	
	5/8	-
6	Windows	
	5/8	-
7	Finishes	
	6/8	-
8	Electrical installations	
	7/8	-
<b>TOTAL FOR ONE BLOCK OF 3 CLASSROOMS WITH VERANDAH</b>		-