



Save the Children

CONSTRUCTION OF A SINGLE CLASSROOM SCHOOL BLOCK

Qoyan Primary School / Qoyan Village / Sanag

B.o.Q.: Single Classroom School Block

#	Description of Work	Measuring Unit	Quantity	Unit Rate	Total Amount
A. Understructures					
1.	Excavate the foundation trenches for the walls and front passage ring beams (400mm, 350mm wide and 400mm deep).	M ³	8.00		
2.	Backfill the foundation trenches with dry stone rubble fill, water and compact thoroughly and successively to satisfaction. Level the top of trenches with 1:5 c/s mortar to get ready for the construction of foundation walls.	M ³	8.00		
3.	Construct 400mm stone masonry foundation walls ht.= 50mm) over the leveled foundation trenches using 1:5 c/s mortar. Level the top of walls with c/s mortar of same mix to get ready for the construction of 150mm R.C. foundation ring beams.	M ³	2.40		
4.	Shutter, reinforce and concrete (1:2:4) the 150mm foundation ring beams (reinforced with 4D12mm longitudinal bars and 1D6mm closed stirrups @ 200mm c/c. Insert in the fresh concrete the 4D12mm short dowels for the R.C. columns reinforcements in the right positions.	M ³	2.40		
5.	Lay 230mm hardcore of assorted material water and compact thoroughly and successively and to satisfaction.	M ³	2.53		
6.	Lay 70mm concrete (1:2:4) floor over the leveled hardcore bed.	M ³	0.77		
Total for Understructures					
B. Superstructures					
7.	Construct 200mm CHBs elevation walls including the gable walls and the front verandah side walls using 1:4 c/s mortar. Fill and Level the top of walls to get ready for the construction of ring beams.	M ²	90.81		
8.	Shutter, reinforce (4D10mm vertical bars and 1D6mm closed stirrups @ 200mm c/c) and concrete (1:2:4) the 200x200mm walls columns (No.s 8).	M ³	0.96		
9.	Shutter, reinforce (2D10mm longitudinal bars and 1D6mm straight stirrups @ 200mm c/c) and concrete (1:2:4) the 100mm middle ring beams.	M ³	0.58		
10.	Shutter, reinforce (4D12mm longitudinal bars and 1D6mm closed stirrups @ 200mm c/c) and concrete (1:2:4) the 150mm R.C. top ring beams. Insert in the fresh concrete D6mm U-shaped bars to serve as steel brackets to hold in position the trusses in case of strong winds.	M ³	0.86		
11.	Shutter, reinforce (4D12mm vertical bars and 1D6mm closed stirrups @ 200mm c/c) and concrete (1:2:4) the 200x200 mm front passage columns (No.s 12).	M ³	0.66		
12.	Construct the R.C. (1:2:4) front passage 200x300/200x200 mm beams and 100mm arcs. Reinforce the beams with 4D12mm longitudinal bars and 1D6mm closed stirrups @ 200mm c/c.	M ³	0.84		
13.	Construct 100mm R.C. double inclined external windows shades windows protruding 500mm off the external faces of walls.	M ³	0.34		
Sub-Total for Superstructures Single Classroom Block in U.S. \$					

**CONSTRUCTION OF A SINGLE CLASSROOM SCHOOL BLOCK****Qoyan Primary School / Qoyan Village / Sanag****B.o.Q.: Single Classroom School Block (Continued)**

#	Description of Work	Measuring Unit	Quantity	Unit Rate	Total Amount
14.	Fix new 32 Gauge G.I. sheets on 2"x2" timber purlins on 1½"x3" timber trusses and rafters. Superpose sheets 200mm and use only roofing sheets taking care to strike the nails on the raised ribs to avoid leakage. For all trusses provide 2x (25x150) mm timber planks as tie beams. Tie the trusses and rafters on the D6mm steel brackets imbedded in the top ring beams for the purpose.	M ²	68.24		
15.	In the two classrooms and the covered passage Construct 5mm plywood boards ceiling fixed to walls, 2"x2" bracing timber and trusses complete with 100mm cornice. Paint the ceiling.	M ²	60.45		
16.	Construct 100mm CHBs shoulder walls in the two side external walls.	M ²	6.88		
17.	Over the 100mm CHBs shoulder walls construct 100mm R.C. half-circular arcs.	M ³	0.28		
18.	Construct 25x200mm timber fascia boards under all eaves and paint.	L.M.	32.40		
19.	Construct door, windows (No.s 6) P.V. blocks.	M ²	1.14		
20.	Supply and fix a double leafed steel door (dim.= 1200x2150mm) painted both sides two coats anti-rust high gloss paint.	M ²	2.58		
21.	Supply and fix double shuttered steel windows (900x1200)mm (No.s 5) having both shutters folding into the sides of the inner ledges and provided externally with anti-burglar laminated steel grilles and painted both sides two coats high gloss.	M ²	3.60		
22.	Under all windows construct 70mm windows cills protruding out of the external sides of walls 50mm.	M ²	1.00		
23.	Construct the gently sloping entrance ramp.	No	1		
Sub-Total for Understructures Single Classroom Block in U.S. \$					
Total for Superstructures Single Classroom Block in U.S. \$					
C. Finishing					
24.	Render internal walls (including the front passage wall and side walls) in 12mm steel float cement plaster (1:4 c/s mix) true to plumb.	M ²	100.57		
25.	Render doors and windows shoulders in 12mm steel float cement plaster (1:4 c/s mix) true to plumb and level.	M ²	5.30		
26.	On all floors lay 40mm new cement screed with on top cement slurry finish to good level.	M ²	60.45		
27.	Render external walls including the gable walls and the front verandah side walls over the verandah top beams in 12mm wood float cement plaster true to plumb.	M ²	80.09		
28.	Plaster the double inclined external windows shades.	M ²	5.58		
29.	Plaster the sides walls 100mm CHBs shoulder walls and the arcs above them.	M ²	11.36		
30.	Plaster the front passage columns, beams and arcs.	M ²	24.03		
31.	Plaster the basement walls.	M ²	13.04		
32.	Whitewash external walls two coats of a mix of good lime and white glue.	M ²	80.09		
Sub-Total for Finishing Single Classroom Block in U.S. \$					



Save the Children

CONSTRUCTION OF A SINGLE CLASSROOM SCHOOL BLOCK

Qoyan Primary School / Qoyan Village / Sanag

B.o.Q.: Single Classroom School Block (Continued)

#	Description of Work	Measuring Unit	Quantity	Unit Rate	Total Amount
C. Finishing (Continued)					
33.	Paint (colored paint) the internal walls (including the front passage walls), and doors/windows shoulders.	M ²	105.87		
34.	Paint the side walls shoulder walls, arcs and the double inclined windows shades.	M ²	16.94		
35.	Paint (colored paint) the front passage columns, beams and arcs two coats high emulsion.	M ²	24.03		
36.	Paint roof sheets two coats anti-rust high gloss paint.	M ²	68.24		
37.	Complete internal & external electrification.	Lump-Sum			
Sub-Total for Finishing of Single Classroom Block in U.S. \$					
Total for Finishing of Single Classroom Block in U.S. \$					
Grand-Total for New Single CRM School Block in U.S. \$					

Prepared by:
A/Aziz Osman Hersi
Building Engineer
Save the Children International
Garowe Office / Puntland Somalia