

**SKELDON WORKSHOP SANITARY FACILITY
BILL OF QUANTITIES**

Item	Description	Qty	Unit	Rate	Amount
	Sanitary Block -				
	Foundation, Columns And Walls				
2.1	Provide equipment and labour to grub site not exceeding 300mm deep. Rate to include for the disposal of spoil as directed by Guysuco's Representative on site.	66	m ²		
2.2	Excavate in open cut for foundation not exceeding 600mm deep. Rate to include for disposal of spoil as directed by Guysuco's Representative on site.	23	m ³		
2.3	Provide and fix shuttering fabricated from 25mm thick construction plywood to foundation. Rate to include for fixing all struts and ties.	25	m ²		
2.4	Provide, place and compact 200mm thick white sand as fill to underside of foundation.	14	m ³		
2.5	Provide, place and compact 50mm thick blinding concrete to top of sandfill.	55	m ²		
	Provide, clean, bend and fix the following high yeild bars to foundation:				
	(a) 6mm dia. Bars.	95	kg		
	(b) 16mm dia. Bars.	300	kg		
	Provide, place and compact 700mm thick white sand as fill to underside of floor slab.	44	m ³		
2.5	Provide and fix 500g damp proof membrane to top of sandfill	66	m ²		
2.6	Provide, clean, bend and fix the following high yeild bars to floor slab and connecting walkway between sanitary block and Plant				
	(a) 10mm dia. Bars.	900	kg		
	Provide and fix 12mm diameter x 550 long high yield bars as starter bars between Packaging Plant floor and Sanitary Block. Rate to include for anchor epoxy.	14	No.		
2.7	Provide, place and compact structural concrete (4500 psi crushing strength at 28 days) to foundation, stairs and floor slab.	17	m ³		
	Total Carried Forward				

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Item	Description	Qty	Unit	Rate	Amount
	Total Brought Forward				
	Walls				
2.9	Provide and lay 150mm x 406mm x 203mm hollow concrete block reinforced 12mm high tensile rebars and filled with structural concrete to floor height.	26	m ²		
2.1.0	Provide and lay 100mm x 406mm x 203mm hollow concrete block to walls of sanitary block between floor and perimeter beam.	380	m ²		
2.11	Provide and lay 100mm x 250mm x 203mm louvre concrete vent blocks to external walls of sanitary block wall as shown on drawing.	20	m ²		
2.12	Provide and fix shuttering fabricated from 25mm thick construction plywood to perimeter beam. Rate to include for fixing all struts and ties.	30	m ²		
2.13	Provide and fix 12mm diameter x 200mm long mild steel anchor bolts.	16	No.		
2.14	Provide labour and materials for the provision of lockers fabricated from 25mm x 300mm silverballi. Size 450mm x 450mm x 800mm.	30	No.		
2.15	Provide and fix 12mm thick plywood backing, plugged and screwed to blockwork with polished plate glass copper backed mirror 6mm thick. Size 600mm x 750mm	3	No.		
2.15	Doors				
2.15.1	Provide and fix 50mm x 100mm greenheart door frames to opening of sanitary block.	144	bm		
2.15.2	Provide and fix flush panel doors to sanitary block. Rate to include for suitable yale or Union type lock and all other ironmongery. Size 813mm wide x 1829mm high	5	No.		
	Provide and fix solid raised panel doors to sanitary block. Rate to include for suitable yale or Union type lock and all other ironmongery. Size 813mm wide x 1981mm high	3	No.		
	Provide and fix door with aluminium frame and perspex to bath. Size 813mm wide x 1781mm high.	2	No.		

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2.15.3	Provide and fix 25mm x 50mm greenheart fascia and door jamb to door frames.	30	No.		
2.16	Provide and fix hand rails fabricated from 50mm diameter galvanized pipe as shown in drawings. Rate to include for the provision and application of etching primer and two coats of anticorrosive paint.	16	linm		
	Total Carried Forward				
Item	Description	Qty	Unit	Rate	Amount
	Total Brought forward				
2.17	Roof				
2.17.1	Provide and fix the following materials to roof of sanitary block:				
	(a) 50mm x 100mm greenheart Wall plate	80	bm		
	(b) 100mm x 150mm greenheart wall plate	40	bm		
	(b) 50mm x 200mm greenheart ridge	36	bm		
	(c) 50mm x 100mm greenheart rafters	313	bm		
	(d) 50mm x 150mm greenheart hip rafters	63	bm		
	(e) 25mm x 150mm greenheart purlins	330	bm		
	(f) 25mm x 100mm greenheart ceiling joist	218	bm		
	(g) 25mm x 100mm greenheart 'V' joint boards.	711	bm		
	(h) 25mm x 200mm greenheart fascia board	122	bm		
	(i) 26 gauge prepainted roofing sheets	110	m ²		
	(j) 26 gauge ridge flashing	26	lin.m		
	(k) PVC bat proofing mesh	34	lin.m		
2.18	Rainwater Goods				
2.18.1	Provide and fix the following rainwater goods to sanitary block. Rate to include for all screws, plugs and PVC cement.				
	(a) 150mm OG gutters to fascia.	12	No.		
	(b) 150mm brackets to fascia board to take gutters.	67	No.		
	(c) connectors to gutters.	11	No.		
	(d) 75mm diameter down spout.	4	No.		
	(e) 150mm corners to gutters.	4	No.		
	(f) 75mm square to round adaptor	4	No.		
	(g) 75mm dia. Downpipe to down spout.	20	lin.m		
	(h) 75mm dia. bend to down pipe.	12	No.		
	(i) 75mm dia. Pipe strap.	12	No.		

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2.19	Finishes				
2.19.1	Provide and apply 12mm thick rendering 1:3 mix to internal and external walls of sanitary block.	220	m ²		
2.19.2	Provide and lay 300mm x 300mm nonskid ceramic tiles to floor of sanitary block. Rate to include for grouting and cleaning tiles.	59	m ²		
2.19.3	Provide and lay 150mm x 150mm glazed ceramic tiles to walls of sanitary block .Rate to include for grouting and cleaning tiles.	80	m ²		
2.19.4	Provide and apply three coats of appropriate type paint to the following areas of sanitary block: Rate to include for all stopping and compounding.				
	(a) Ceiling	91	m ²		
	(b) Walls	f	m ²		
	(c) Doors, door frame, jambs and fascia	56	m ²		
	Total Carried Forward				
Item	Description	Qty	Unit	Rate	Amount
	Total Brought forward				
2.2.0	Provide and fix the following fixtures to sanitary block:				
	(a) Water Closet	6	No.		
	(b) Lavatory Basin	4	No.		
	(c) Bath rose	2	No.		
	(d) Bowl type urinal with automatic flushing system and separation walls.	3	No.		
	Rate to include for all pipes, valves, connectors, adaptors, vents, cleaning eyes, reducers, clamps and screws to make entire sanitary system operable.				
2.21	Provide materials and construct manholes as directed by the Engineer and as shown on drawings. Rate to include for all rendering, reinforcing and fill blocks with concrete. Size Internal dimensions 700mm square x 700mm high.	4	No.		
2.22	Provide and install 100mm diameter PVC pressure pipe to manholes. Rate to include for all fittings and making entire system operable.	8	length		
2.23	Provide a sum for electrics and making entire installation operable.		item		
	Cost of Sanitary Block to summary				

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	Septic Tank -20-30 Persons				
1	Excavate in open cut for foundation not exceeding 2000mm deep. Rate to include for disposal of spoil as directed by Guysuco's Representative on site.	12	m ³		
2	Provide, place and compact 200mm thick white sand as fill to underside of tank base.	1	m ³		
3	Provide, place and compact 50mm thick blinding concrete to top of sandfill.	5	m ²		
4	Provide, clean, bend and fix the following high yeild bars to base and top: (a) 12mm dia bars.	69	kg		
5	Provide and fix shuttering fabricated from 25mm thick construction plywood to foundation. Rate to include for fixing all struts and ties.	5	m ²		
6	Provide, place and compact structural concrete (3500 psi crushing strength at 28 days) 100mm to base and top of septic tank.	2	m ³		
7	Provide and lay 150mm x 406mmx 203mm hollow concrete block reinforced with 12mm high tensile rebars and filled with structural concrete.	22	m ²		
8	Provide and apply 12mm thick rendering 1:3 mix to block walls of septic tank.	42	m ²		
9	Provide and place 20mm minus aggregate to filter of septic tank.	500	kg		
	Cost of Septic tank				