



PROGRAM OF WORKS

BILL OF QUANTITIES

LAST MILE SCHOOLS PROGRAM 2020 - R IV-A - BATANGAS CITY - 000

School : LMS Elementary School			Date: November, 2019			
School ID : 109619			Budget Allocation: PHP 15,340,083.79			
Region : IV-A CALABARZON			Engineering and Administrative Overhead: PHP 76,700.42			
Division : Batangas City			Approved Budget for the Contract: PHP 15,263,383.37			
Project Title :			Completion Period:			
CONSTRUCTION OF ONE (1) STOREY - FOUR (4) CLASSROOMS SCHOOL BUILDING WITH PROVISION OF SOLAR PV ENERGY AND WATER SYSTEMS AND SCHOOL FURNITURE			Minimum Required Manpower:			
			General Foreman		Welder	Carpenter
			Helper		Mason	Painter
Location :			Minimum Required Equipment:			
Batangas City			Hand Tools		Welding Machine	
			One-Bagger Mixer		Bar Cutter	
ITEM NO.	Item Description	% of Total	Unit	Quantity	Total Cost	Remarks
I. DIRECT COST						
	GENERAL REQUIREMENTS	1.40%	lot	1.00	213,011.47	
CONSTRUCTION OF ONE (1) STOREY - FOUR (4) CLASSROOMS SCHOOL BUILDING						
1.0000	Earthworks	1.09%	lot	1.00	166,399.87	
2.0000	Concreting Works	6.16%	cu m	149.21	939,585.05	
3.0000	Rebar Works	8.34%	kg	21,947.15	1,273,020.02	
4.0000	Formworks	1.92%	sq m	993.48	293,347.70	
5.0000	Masonry Works	3.07%	sq m	736.20	468,530.47	
6.0000	Doors and Windows	1.09%	lot	1.00	166,596.43	
7.0000	Steel Works	6.61%	lot	1.00	1,009,585.92	
8.0000	Roofing Works	2.25%	lm	429.60	343,431.39	
9.0000	Ceiling and Carpentry Works	2.54%	lot	342.00	388,174.48	
10.0000	Electrical Works	1.37%	lot	1.00	208,715.52	
11.0000	Plumbing Works	0.46%	lot	1.00	70,474.21	
	Rain Water Collector	0.55%	lot	1.00	83,281.88	
12.0000	Sanitary Works	1.87%	lot	1.00	285,717.19	
13.0000	Painting Works	0.87%	sq m	1,306.44	133,263.95	
15.0000	Waterproofing	0.19%	lot	1.00	29,458.38	
14.0000	Tile Works	0.40%	sq m	51.06	61,056.52	
SCHOOL FURNITURE						
16.0000	Table and Chair	3.00%	lot	1.00	457,600.00	
SOLAR PV ENERGY SYSTEM - (for Four (4) Classrooms)						
17.0100	Charging Station	0.12%	lot	1.00	17,804.47	
17.0200	Solar PV Power System	25.58%	set	1.00	3,905,000.00	
17.0300	Solar Water Pumping System	1.04%	set	1.00	159,500.00	
17.0400	Perimeter Solar Lighting System	3.24%	set	6.00	495,000.00	
WATER SYSTEM (DESIGN OPTION 1)						
18.0100	Drilling (Deep Well)	3.18%	ft	200.00	484,866.20	
18.0200	Piping System and Overhead Water Tank	1.38%	set	1.00	210,890.30	
18.0300	Overhead Water Tank Support	1.49%	lot	1.00	227,764.08	
18.0400	Railing and Ladder	0.18%	lot	1.00	26,737.04	

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ITEM NO.	Item Description	% of Total	Unit	Quantity	Total Cost	Remarks
WATER SYSTEM (DESIGN OPTION 2)						
18.0600	Piping System (1000 meters)	1.11%	lot	1.00	169,464.10	Elevation of water source is higher than school site.
WATER SYSTEM (DESIGN OPTION 3)						
18.0700	Drilling	0.87%	ft	78.72	132,122.31	
18.0800	Piping System	0.21%	set	1.00	32,350.50	
2.0000	Concrete Flooring/ Pedestal	0.02%	cu.m	0.23	2,607.42	
	Sub-Total				12,455,356.87	
II. INDIRECT COST 17% of (I)						
	Overhead Expenses (5%)	4.01%			612,117.27	
	Contingencies (3%)	2.41%			367,270.36	
	Miscellaneous (1%)	0.80%			122,423.45	
	Contractor's Profit (8%)	6.42%			979,387.63	
	Sub-Total				2,081,198.72	
III. TAX 5% of (I+II)						
	Sub-Total	4.76%			726,827.78	
IV. TOTAL CONSTRUCTION COST (I + II + III)		100.00%			15,263,383.37	

92

Prepared:

Recommending Approval:

Approved:

DEPED Engineer

Chief, SGOD

Head of Procuring Entity (HOPE)

Concurred:

ENGR. ANNABELLE R. PANGAN
Chief, EFD-AS



PROGRAM OF WORKS
DETAILED COST ESTIMATE

PROJECT : CONSTRUCTION OF ONE (1) STOREY - FOUR (4) CLASSROOMS SCHOOL BUILDING WITH PROVISION OF SOLAR PV ENERGY AND WATER SYSTEMS
 AND SCHOOL FURNITURE
 SCHOOL : LMS Elementary School
 LOCATION : Batangas City
 OWNER : DEPARTMENT OF EDUCATION

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
GENERAL REQUIREMENTS								
	Mobilization/ Temporary Structures, Utilities and Services/ Demobilization	lot	1.00	73,454.07	48,969.38	73,454.07	48,969.38	122,423.45
	Project Billboard	lot	1.00	3,630.00	1,261.60	3,630.00	1,261.60	4,891.60
	Safety and Health	lot	1.00	73,454.07	-	73,454.07	-	73,454.07
	Fire Safety Inspection Certificate (FSIC)	lot	1.00	-	12,242.35	-	12,242.35	12,242.35
	Other Permit Fee	lot	1.00	-	-	-	-	-
	Hauling cost	lot	1.00	-	-	-	-	-
	Sub-total							213,011.47
CONSTRUCTION OF ONE (1) STOREY - FOUR (4) CLASSROOMS SCHOOL BUILDING								
1.0000	Earthworks							
1.0100	Clearing and Grubbing	sq.m	411.02	-	20.00	-	8,220.46	8,220.46
1.0200	Structural Excavation	cu.m	92.49	-	285.82	-	26,436.79	26,436.79
1.0300	Backfilling and Compaction	cu.m	69.03	-	230.13	-	15,886.38	15,886.38
1.0400	Gravel Bedding G-1	cu.m	51.45	943.82	283.15	48,561.40	14,568.42	63,129.81
1.0500	Select Fill	cu.m	214.83	155.77	46.73	33,463.90	10,039.17	43,503.08
1.0600	Soil Poisoning	sq.m	452.13	15.69	4.71	7,094.89	2,128.47	9,223.35
	Sub-total							166,399.87
2.0000	Concreting Works							
	Column Footing	cu.m	20.33					
2.0200	Portland Cement	bag	183.00	252.98	75.89	46,291.96	13,887.59	60,179.55
2.0400	Crushed Gravel 1"	cu.m	20.50	1,334.46	400.34	27,358.46	8,206.94	35,563.40
2.0500	Washed Sand	cu.m	10.25	1,160.21	348.06	11,892.12	3,587.64	15,459.76
	Footing Tie Beam	cu.m	19.35					
2.0200	Portland Cement	bag	175.00	252.96	75.89	44,268.27	13,280.48	57,548.75
2.0300	Crushed Gravel 3/4"	cu.m	19.50	2,044.30	613.29	39,863.91	11,959.17	51,823.09
2.0500	Washed Sand	cu.m	9.75	1,160.21	348.06	11,312.02	3,393.60	14,705.62
	Wall Footing	cu.m	1.94					
2.0200	Portland Cement	bag	18.00	252.96	75.89	4,553.31	1,365.99	5,919.30
2.0300	Crushed Gravel 3/4"	cu.m	2.00	2,044.30	613.29	4,088.61	1,226.58	5,315.19
2.0500	Washed Sand	cu.m	1.00	1,160.21	348.06	1,160.21	348.06	1,508.27
	Columns/ Stiffener	cu.m	16.87					
2.0200	Portland Cement	bag	152.00	252.96	75.89	38,450.15	11,535.05	49,985.20
2.0300	Crushed Gravel 3/4"	cu.m	17.00	2,044.30	613.29	34,753.15	10,425.95	45,179.10
2.0500	Washed Sand	cu.m	8.50	1,160.21	348.06	9,861.76	2,958.53	12,820.29
	Roof Beams/ LRB-1	cu.m	20.93					
2.0200	Portland Cement	bag	189.00	252.96	75.89	47,809.73	14,342.92	62,152.65
2.0300	Crushed Gravel 3/4"	cu.m	21.00	2,044.30	613.29	42,930.37	12,879.11	55,809.48
2.0500	Washed Sand	cu.m	10.50	1,160.21	348.06	12,182.17	3,654.65	15,836.82
	CB-1/ GB-1/ SB-1	cu.m	8.47					
2.0200	Portland Cement	bag	77.00	252.96	75.89	19,478.04	5,843.41	25,321.45
2.0300	Crushed Gravel 3/4"	cu.m	8.50	2,044.30	613.29	17,376.58	5,212.97	22,589.55
2.0500	Washed Sand	cu.m	4.25	1,160.21	348.06	4,930.88	1,479.26	6,410.14
	R. C. Concrete Gutter/ Parapet Wall	cu.m	19.30					
2.0200	Portland Cement	bag	174.00	252.96	75.89	44,015.31	13,204.59	57,219.90
2.0300	Crushed Gravel 3/4"	cu.m	19.50	2,044.30	613.29	39,863.91	11,959.17	51,823.09
2.0500	Washed Sand	cu.m	9.75	1,160.21	348.06	11,312.02	3,393.60	14,705.62
	Stair	cu.m	1.28					
2.0200	Portland Cement	bag	12.00	252.96	75.89	3,035.54	910.66	3,946.20
2.0300	Crushed Gravel 3/4"	cu.m	1.50	2,044.30	613.29	3,066.45	919.94	3,986.39
2.0500	Washed Sand	cu.m	0.75	1,160.21	348.06	870.16	261.05	1,131.20
	Concrete Bench	cu.m	0.54					
2.0200	Portland Cement	bag	5.00	252.96	75.89	1,264.81	379.44	1,644.25
2.0300	Crushed Gravel 3/4"	cu.m	0.75	2,044.30	613.29	1,533.23	459.97	1,993.20
2.0500	Washed Sand	cu.m	0.50	1,160.21	348.06	580.10	174.03	754.13
	Slab on Fill	cu.m	35.70					
2.0200	Portland Cement	bag	322.00	252.96	75.89	81,453.62	24,436.08	105,889.70
2.0300	Crushed Gravel 3/4"	cu.m	35.75	2,044.30	613.29	73,083.84	21,925.15	95,008.99
2.0500	Washed Sand	cu.m	18.00	1,160.21	348.06	20,883.72	6,265.12	27,148.84

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
	Ramp on Fill	cu.m	1.70					
2.0200	Portland Cement	bag	16.00	252.96	75.89	4,047.38	1,214.22	5,261.60
2.0300	Crushed Gravel 3/4"	cu.m	1.75	2,044.30	613.29	3,577.53	1,073.28	4,650.79
2.0500	Washed Sand	cu.m	1.00	1,160.21	348.06	1,160.21	348.06	1,508.27
	Handwashing with Concrete Platform	cu.m	2.82					
2.0200	Portland Cement	bag	26.00	252.96	75.89	6,577.00	1,973.10	8,550.10
2.0300	Crushed Gravel 3/4"	cu.m	3.00	2,044.30	613.29	6,132.91	1,839.87	7,972.78
2.0500	Washed Sand	cu.m	1.50	1,160.21	348.06	1,740.31	522.09	2,262.40
	Sub-total							939,585.05
3.0000	Rebar Works							
	Column Footing	kg	1,080.25					
	Footing Tie Beam	kg	2,537.57					
	Columns	kg	7,399.99					
	Roof Beams/ LRB-1	kg	2,914.83					
	CB-1/ GB-1/ SB-1	kg	1,341.76					
3.0500	Deformed Round Bars, Grade 40	kg	15,274.40	44.59	13.38	681,015.06	204,304.52	885,319.58
	Footing Tie Beam	kg	1,067.71					
	Wall Footing	kg	66.63					
	Columns	kg	783.25					
	Stiffener	kg	147.89					
	Roof Beams/ LRB-1	kg	1,171.44					
	CB-1/ GB-1/ SB-1	kg	463.76					
	R. C. Concrete Gutter/ Parapet Wall	kg	1,063.53					
	Stair	kg	78.07					
	Concrete Bench	kg	44.64					
	Slab on Fill	kg	1,539.79					
	Ramp on Fill	kg	56.36					
	Handwashing with Concrete Platform	kg	189.68					
3.0900	Deformed Round Bars, Grade 33	kg	6,672.75	39.60	11.88	264,253.18	79,275.95	343,529.13
3.1200	G.I. Tie Wire	kg	439.00	77.40	23.22	33,977.92	10,193.38	44,171.30
	Sub-total							1,273,020.02
4.0000	Formworks							
	Footing Tie Beam	sq.m	203.18					
4.0100	Coco Lumber	bd.ft	1,036.20	32.25	6.45	33,421.44	6,684.29	40,105.72
4.0200	Plywood Ordinary, 1/4" x 4' x 8'	pc	35.00	432.10	86.42	15,123.37	3,024.67	18,148.04
4.0400	CWN, Assorted	kg	15.00	78.55	15.71	1,178.19	235.64	1,413.83
	Columns/ Stiffener	sq.m	208.50					
4.0100	Coco Lumber	bd.ft	1,063.50	32.25	6.45	34,301.97	6,860.39	41,162.36
4.0200	Plywood Ordinary, 1/4" x 4' x 8'	pc	36.00	432.10	86.42	15,555.46	3,111.09	18,666.55
4.0400	CWN, Assorted	kg	15.00	78.55	15.71	1,178.19	235.64	1,413.83
	Roof Beams/ LRB-1	sq.m	222.27					
4.0100	Coco Lumber	bd.ft	1,133.70	32.25	6.45	36,566.19	7,313.24	43,879.42
4.0200	Plywood Ordinary, 1/4" x 4' x 8'	pc	39.00	432.10	86.42	16,851.75	3,370.35	20,222.10
4.0400	CWN, Assorted	kg	16.00	78.55	15.71	1,256.74	251.35	1,508.09
	CB-1/ GB-1/ SB-1	sq.m	104.61					
4.0100	Coco Lumber	bd.ft	533.70	32.25	6.45	17,213.88	3,442.78	20,656.65
4.0200	Plywood Ordinary, 1/4" x 4' x 8'	pc	18.00	432.10	86.42	7,777.73	1,555.55	9,333.28
4.0400	CWN, Assorted	kg	8.00	78.55	15.71	628.37	125.67	754.04
	R. C. Concrete Gutter/ Parapet Wall	sq.m	233.88					
4.0100	Coco Lumber	bd.ft	1,192.80	32.25	6.45	38,472.39	7,694.48	46,166.87
4.0200	Plywood Ordinary, 1/4" x 4' x 8'	pc	41.00	432.10	86.42	17,715.94	3,543.19	21,259.13
4.0400	CWN, Assorted	kg	17.00	78.55	15.71	1,335.28	267.06	1,602.34
	Stair	sq.m	2.84					
4.0100	Coco Lumber	bd.ft	14.70	32.25	6.45	474.13	94.83	568.96
4.0200	Plywood Ordinary, 1/4" x 4' x 8'	pc	1.00	432.10	86.42	432.10	86.42	518.52
4.0400	CWN, Assorted	kg	1.00	78.55	15.71	78.55	15.71	94.26
	Concrete Bench	sq.m	5.42					
4.0100	Coco Lumber	bd.ft	27.90	32.25	6.45	899.88	179.98	1,079.86
4.0200	Plywood Ordinary, 1/4" x 4' x 8'	pc	1.00	432.10	86.42	432.10	86.42	518.52
4.0400	CWN, Assorted	kg	1.00	78.55	15.71	78.55	15.71	94.26
	Handwashing	sq.m	12.80					
4.0100	Coco Lumber	bd.ft	65.40	32.25	6.45	2,109.40	421.88	2,531.28
4.0200	Plywood Ordinary, 1/4" x 4' x 8'	pc	3.00	432.10	86.42	1,296.29	259.26	1,555.55
4.0400	CWN, Assorted	kg	1.00	78.55	15.71	78.55	15.71	94.26
	Sub-total							293,347.70
5.0000	Masonry Works							
	Masonry Wall	sq.m	394.20					
5.0200	CHB 6" thk	pc	4,728.00	17.96	5.39	84,896.70	25,469.01	110,365.70
5.0300	CHB 4" thk	pc	200.00	14.88	4.40	2,935.69	880.71	3,816.40
2.0200	Portland Cement	bag	196.00	252.96	75.89	50,086.38	15,025.92	65,112.30
2.0500	Washed Sand	cu.m	17.00	1,160.21	348.06	19,723.52	5,917.05	25,640.57
5.0400	10mm x 6m RSB	kg	523.00	39.60	11.88	20,711.77	6,213.53	26,925.31
3.1200	G.I. Tie Wire	kg	11.00	77.40	23.22	851.38	255.41	1,106.80
	Plastering	sq.m	788.40					
2.0200	Portland Cement	bag	261.00	252.96	75.89	66,022.96	19,806.89	85,829.85
2.0500	Washed Sand	cu.m	27.00	1,160.21	348.06	31,325.58	9,397.68	40,723.26
	Floor Topping	sq.m	342.00					
2.0200	Portland Cement	bag	226.00	252.96	75.89	57,169.31	17,150.79	74,320.10

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
6.0000	Doors and Windows							
6.0310	D-1, (1.00m x 2.10m) KD and Termite - treated Panel Door Type Hinged Door and Fixed Glass Transom on 50mm x 150mm Wood Jamb/ Frame and Lever - type Knob	set	8.00	9,535.26	953.53	76,282.09	7,628.21	83,910.29
6.0410	D-2, (0.958m x 2.05m) Hollow Core Flush Type Swing Door and Fixed Glass Transom on 50mm x 150mm Guijo/ Yakal Jamb with Marine Plywood (two face) with Hardware and Accessories and Cylindrical Door Knob.	set	4.00	2,388.69	238.87	9,554.75	955.48	10,510.23
6.1010	W - 1, (2.50m x 1.25m) Steel Jamb Jalousie Window with Clear Glass Blades and with Fixed Clear Glass Transom	set	4.00	2,266.35	339.95	9,065.38	1,359.81	10,425.19
6.1020	W - 2, (1.70m x 1.25m) Steel Jamb Jalousie Window with Clear Glass Blades and Fixed Clear Glass Transom	set	8.00	1,541.12	231.17	12,328.92	1,849.34	14,178.26
6.1030	W - 3, (1.170m x 1.25m) Steel Jamb Jalousie Window with Clear Glass Blades and Fixed Clear Glass Transom	set	4.00	1,060.65	159.10	4,242.60	636.39	4,878.99
6.0910	W - 4, (0.6 x 0.6 m) Steel Jamb Awning Window with Clear Glass	set	4.00	660.46	99.07	2,641.85	396.28	3,038.12
6.1510	Window Grille (WG - 1)	set	4.00	3,048.35	457.25	12,193.39	1,829.01	14,022.40
6.1520	Window Grille (WG - 2)	set	8.00	2,072.88	310.93	16,583.01	2,487.45	19,070.46
6.1530	Window Grille (WG - 3)	set	4.00	1,426.63	213.99	5,706.51	855.98	6,562.48
	Sub-total							166,596.43
7.0000	Steel Works							
7.0200	LC 150 x 50 x 25 x 6.0mm	kg	10,288.08	43.33	13.00	445,782.51	133,734.75	579,517.26
7.0800	L 90 x 90 x 6mm	kg	1,151.19	45.35	13.60	52,200.69	15,660.21	67,860.90
7.0800	L 90 x 90 x 6mm	kg	1,089.27	45.35	13.60	49,393.09	14,817.93	64,211.01
7.0900	L 50 x 50 x 6mm	kg	111.38	45.35	13.60	5,050.72	1,515.22	6,565.94
7.0900	L 50 x 50 x 6mm	kg	1,219.04	45.35	13.60	55,277.34	16,583.20	71,860.55
7.1000	L 50 x 50 x 5mm	kg	24.02	45.35	13.60	1,089.24	326.77	1,416.02
7.0300	L 125 x 125 x 6mm	kg	88.40	45.35	13.60	4,008.33	1,202.50	5,210.83
7.1400	Steel Plate 1.20m x 2.40m x 16mm thk	pc	0.50	14,868.46	4,460.54	7,434.23	2,230.27	8,664.50
7.1100	Steel Plate 1.20m x 2.40m x 6mm thk	pc	4.50	5,456.38	1,636.92	24,553.73	7,366.12	31,919.85
7.1500	Anchor Bolt with Nuts and Washer, 20mmØ x 50mm x 300mm	pc	56.00	49.31	12.33	2,761.23	690.31	3,451.54
7.1600	Anchor Bolt with Nuts and Washer, 12mmØ x 50mm x 150mm	pc	88.00	27.15	6.79	2,389.54	597.38	2,986.92
7.1700	Anchor Bolt with Nuts and Washer, 10mmØ x 50mm x 125mm	pc	28.00	12.08	3.02	338.15	84.54	422.69
7.1800	Machine Bolts (6 mm dia.)	pc	1,084.00	25.00	6.25	27,100.00	6,775.00	33,875.00
7.1901	Plain Round Bar 12mmØ x 6m	pc	27.00	199.75	59.93	5,393.25	1,617.98	7,011.23
7.2100	Turn Buckle 12 mmØ	pc	24.00	146.23	36.56	3,509.54	877.38	4,386.92
7.2300	10mmØ Sag Rods with Standard Nuts and Washers	pc	27.00	170.00	42.50	4,590.00	1,147.50	5,737.50
7.3500	50 mmØ Stainless Steel Pipe	pc	8.00	2,400.00	720.00	19,200.00	5,780.00	24,980.00
7.3500	50 mmØ Stainless Steel Pipe	pc	14.00	2,400.00	720.00	33,600.00	10,080.00	43,680.00
7.3600	Welding Rod	kg	308.00	112.01	33.60	34,497.90	10,349.37	44,847.26
	Sub-total							1,009,585.92
8.0000	Roofing Works							
8.0600	G.I. Long-Span Roofing, Corrugated, Pre-Painted, 1220mm x 0.4mm BMT	lm	429.60	481.77	144.53	206,968.39	62,090.52	269,058.91
8.0700	G.I. Ridge Roll, Preformed, Pre-Painted, 0.610m x 2.440m x 0.6mm BMT	pc	16.00	543.48	81.52	8,695.69	1,304.35	10,000.05
8.0800	G.I. Flashing, Preformed, Pre-Painted, 0.610m x 2.440m x 0.4mm BMT	pc	10.00	587.17	88.08	5,871.67	880.75	6,752.42
8.0900	J-Bolt (6mm dia.)	pc	5,214.00	8.62	1.29	44,920.62	6,738.09	51,658.71
8.1000	Teckscrew 2-1/2"	pc	624.00	2.68	0.40	1,670.64	250.60	1,921.24
8.1300	Roof Sealant	L	8.00	439.14	65.87	3,513.11	526.97	4,040.07
	Sub-total							343,431.39
9.0000	Ceiling and Carpentry Works							
	Interior Ceiling	sq.m	252.00					
7.0810	L 75 x 75 x 6mm	kg	1,219.74	45.35	13.60	55,309.42	16,592.83	71,902.24
7.0900	L 50 x 50 x 6mm	kg	495.43	45.35	13.60	22,465.18	6,739.56	29,204.74
9.0800	Metal Carrying Channel (12mm x 38mm x 5m x 0.8mm thk)	pc	36.00	133.46	40.04	4,804.62	1,441.38	6,246.00
9.1000	Metal Double Furring Channel (19mm x 50mm x 3m x 0.5mm thk)	pc	404.00	131.15	39.35	52,986.15	15,895.85	68,882.00
9.1100	Wall Angle 1" x 1" x 10'	pc	44.00	84.31	25.29	3,709.54	1,112.86	4,822.40
9.0900	Fiber Cement Ceiling Board (4.5mm thk)	pc	88.00	538.54	161.56	47,391.38	14,217.42	61,608.80
9.1300	Rod Suspension Hanger with Adjustment Spring	pc	140.00	136.92	41.08	19,169.23	5,750.77	24,920.00
9.1200	Preformed Wire Clip	pc	440.00	5.08	1.52	2,233.85	670.15	2,904.00

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
8.1100	Blind Rivets	pc	3,928.00	2.12	0.32	8,309.23	1,246.38	9,555.62
	Ficem screw	pc	3,980.00	0.70	0.11	2,786.00	417.90	3,203.90
9.2200	Concrete Nails	kg	4.00	97.18	29.16	388.74	116.62	505.36
7.3600	Welding Rod	kg	4.00	112.01	33.60	448.02	134.41	582.43
	Exterior Ceiling	sq.m	90.00					
7.0810	L 75 x 75 x 6mm	kg	243.95	45.35	13.60	11,061.88	3,318.57	14,380.45
7.0900	L 50 x 50 x 6mm	kg	176.94	45.35	13.60	8,023.28	2,406.98	10,430.26
9.0800	Metal Carrying Channel (12mm x 38mm x 5m x 0.8mm thk)	pc	8.00	133.46	40.04	1,067.69	320.31	1,388.00
9.1000	Metal Double Furring Channel (19mm x 50mm x 3m x 0.5mm thk)	pc	128.00	131.15	39.35	16,787.69	5,036.31	21,824.00
9.1100	Wall Angle 1" x 1" x 10'	pc	32.00	84.31	25.29	2,697.85	809.35	3,507.20
9.0900	Fiber Cement Ceiling Board (4.5mm thk)	pc	32.00	538.54	161.56	17,233.23	5,169.97	22,403.20
9.1300	Rod Suspension Hanger with Adjustment Spring	pc	28.00	136.92	41.08	3,833.85	1,150.15	4,984.00
9.1200	Prefomed Wire Clip	pc	88.00	5.08	1.52	446.77	134.03	580.80
8.1100	Blind Rivets	pc	1,400.00	2.12	0.32	2,961.54	444.23	3,405.77
	Ficem screw	pc	1,404.00	0.70	0.11	982.80	147.42	1,130.22
9.2200	Concrete Nails	kg	4.00	97.18	29.16	388.74	116.62	505.36
7.3600	Welding Rod	kg	4.00	112.01	33.60	448.02	134.41	582.43
9.1400	25mm x 25mm x 300mm Wood slats @25mm clear spacing ceiling ventilation (provide stainless steel wire mesh inside)	pc	8.00	245.00	73.50	1,960.00	588.00	2,548.00
	Blackboards (4 Sets)	sq.m	23.04					
9.1800	S4S Lumber, Kiln Dried, Tanguile	bd.ft	147.00	66.58	19.97	9,786.81	2,936.04	12,722.85
9.2000	Lawanit, 1/4" thk	pc	8.00	282.08	84.62	2,256.62	676.98	2,933.60
9.2100	Finishing Nails	kg	1.00	78.26	23.48	78.26	23.48	101.74
4.0400	CWN, Assorted	kg	3.00	78.55	15.71	235.64	47.13	282.77
9.2200	Concrete Nails	kg	1.00	97.18	29.16	97.18	29.16	126.34
	Sub-total							388,174.48
10.0000	Electrical Works							
	Roughing-ins							
10.0200	Electrical Conduit uPVC, 20mmØ	pc	189.00	79.42	19.86	15,010.96	3,752.74	18,763.70
10.0500	RSC 25mmØ	pc	5.00	213.77	53.44	1,068.85	267.21	1,336.06
10.0900	Entrance Cap 25mm dia.	pc	1.00	67.92	16.98	67.92	16.98	84.90
10.1200	Junction Box, 4" x 4" G.I.	pc	55.00	28.81	7.20	1,584.42	396.11	1,980.53
10.1300	Utility Box, 2" x 4" G.I.	pc	47.00	38.75	9.69	1,821.43	455.36	2,276.79
10.1400	Grounding Rod, 2.4m x 16mm dia.	pc	1.00	175.38	43.85	175.38	43.85	219.23
	Wires and Fixtures							
10.1600	3.5 mm² THHN Wire, Stranded	m	1,122.00	29.52	5.90	33,118.85	6,623.77	39,742.62
10.1800	14.0 mm² THHN Wire, Stranded	m	22.00	70.08	14.02	1,541.69	308.34	1,850.03
10.2200	3.5 mm² TW(G) Wire, Stranded	m	279.00	22.65	4.53	6,320.42	1,264.08	7,584.51
10.2400	8.0 mm² TW(G) Wire, Stranded	m	11.00	33.19	6.64	365.12	73.02	438.14
10.3000	Single Convenience Outlet, Grounding Type, 15 AMP, 230V (EF)	set	4.00	90.00	18.00	360.00	72.00	432.00
10.2700	Duplex Convenience Outlet, Grounding Type, 20A, 250V	set	10.00	249.38	49.88	2,493.85	498.77	2,992.62
10.2800	Duplex Convenience Outlet, Grounding Type, 20A, 250V (WP)	set	2.00	343.85	68.77	687.69	137.54	825.23
10.2900	Single Pole Wall Switch in One Switch Plate (10 AMP, 230V)	set	8.00	92.73	18.55	741.81	148.36	890.17
10.3100	2 Single Pole Wall Switches in One Switch Plate (10 AMP, 230V)	set	4.00	146.54	29.31	586.15	117.23	703.38
10.3300	Three Way Wall Switch (10 AMP, 230 V)	set	3.00	243.46	48.69	730.38	146.08	876.46
10.3400	2 - 28W, 230V, 60Hz, AC Fluorescent Lighting Fixture, (Box Type)	set	24.00	2,497.69	374.65	59,944.62	8,991.69	68,936.31
10.3500	1 - 28W, 230V, 60Hz, AC Fluorescent Lighting Fixture, (Box Type)	set	8.00	1,800.00	240.00	12,800.00	1,920.00	14,720.00
10.3600	1 -18W, 230V, 60Hz AC, Compact Fluorescent Lighting Fixture with Medium Base Keyless Type Porcelain Receptacle	set	4.00	490.00	73.50	1,960.00	294.00	2,254.00
10.3800	Panel Box, Flush Type, 8 Branches	set	1.00	1,779.92	177.99	1,779.92	177.99	1,957.92
10.4100	Circuit Breaker, 20A 2P	set	8.00	435.31	43.53	3,482.46	348.25	3,830.71
10.4500	Circuit Breaker, 70A 2P	set	1.00	684.73	68.47	684.73	68.47	753.20
10.4900	Vibrating Bell 8"	set	2.00	1,515.00	151.50	3,030.00	303.00	3,333.00
10.5000	Push Button, 10A, 230V	set	2.00	388.46	38.85	776.92	77.69	854.62
10.5400	Wall Fan, 60W, 230V, 60Hz	set	16.00	1,744.85	174.48	27,917.54	2,791.75	30,709.29
10.5500	Electrical Tape	pc	9.00	37.38	3.74	336.46	33.65	370.11
	Sub-total							208,715.52

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ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
11.0000	Plumbing Works							
11.0200	Water Closet 1.6gpf with Accessories	set	4.00	5,320.46	1,064.09	21,281.85	4,256.37	25,538.22
11.0100	Water Closet Flange	set	4.00	276.21	55.24	1,104.85	220.97	1,325.82
11.4410	S.S. Floor Drain 4" x 4"	set	4.00	97.50	14.63	390.00	58.50	448.50
11.0410	Faucet, Lavatory	set	4.00	800.00	160.00	3,200.00	640.00	3,840.00
11.1000	PP-R Pipe 3/4"Ø x 4.0m	pc	14.00	361.50	108.45	5,061.00	1,518.30	6,579.30
11.1100	PP-R Pipe 1/2"Ø x 4.0m	pc	4.00	235.23	70.57	940.92	282.28	1,223.20
11.2700	PP-R Tee, 1/2"Ø	pc	22.00	19.52	5.85	429.34	128.80	558.14
11.2100	PP-R Elbow 90° x 3/4"Ø	pc	2.00	26.56	7.97	53.12	15.94	69.06
11.2200	PP-R Elbow 90° x 1/2"Ø	pc	10.00	17.95	5.39	179.54	53.86	233.40
11.2910	PP-R Tee Reducer, 3/4" x 1/2"Ø	pc	4.00	25.00	7.50	100.00	30.00	130.00
11.0500	Faucet, Hose Bibb, Brass 1/2"Ø	pc	20.00	171.38	34.28	3,427.69	685.54	4,113.23
11.3800	Gate Valve, 3/4"Ø	pc	6.00	366.85	110.05	2,201.08	660.32	2,861.40
11.4200	Teflon Tape	roll	14.00	13.31	2.00	186.31	27.95	214.25
11.4400	S.S. Grab Rail 1-1/2"Ø	set	4.00	5,073.85	761.08	20,295.38	3,044.31	23,339.69
	Sub-total							70,474.21
	Rain Water Collector							
	Filter Tank/ Rain Water Harvesting Tank							
	1.0m x 1.0m x 1.0m Intermediate Bulk Container (IBC), 1000L Capacity with tube cage and pallet	pc	3.00	5,500.00	1,375.00	16,500.00	4,125.00	20,625.00
	Fine Sand	cu m	0.15	690.63	172.66	103.59	25.90	129.49
	Pebbles, 5mm	cu m	0.10	982.81	245.70	98.28	24.57	122.85
	Pebbles, 10mm	cu m	0.15	982.81	245.70	147.42	36.86	184.28
	Granulated Carbon	cu m	0.15	2,624.75	656.19	393.71	98.43	492.14
2.0300	Crushed Gravel 3/4"	cu.m	0.15	2,044.30	613.29	306.65	91.99	398.64
	PVC Pipe 4" dia.	pc	10.00	69.06	17.27	690.63	172.66	863.28
	PVC Pipe 2" dia.	pc	1.00	90.31	22.58	90.31	22.58	112.89
	CPVC Pipe 2" dia.	pc	4.00	1,257.00	314.25	5,028.00	1,257.00	6,285.00
	CPVC Pipe 1" dia.	pc	4.00	631.00	157.75	2,524.00	631.00	3,155.00
	uPVC WYE 4" x 4"	pc	6.00	53.13	13.28	318.75	79.69	398.44
	uPVC TEE 2"	pc	1.00	53.13	13.28	53.13	13.28	66.41
	uPVC Elbow, 45 deg x 4" dia.	pc	6.00	53.13	13.28	318.75	79.69	398.44
	uPVC Elbow, 90 deg x 4" dia.	pc	10.00	53.13	13.28	531.25	132.81	664.06
	uPVC Elbow, 90 deg x 2" dia.	pc	7.00	53.13	13.28	371.88	92.97	464.84
	uPVC Elbow, 90 deg x 1" dia.	pc	2.00	53.13	13.28	106.25	26.56	132.81
	Cleanout, 4" dia.	pc	1.00	350.00	87.50	350.00	87.50	437.50
	Gate Valve, 4" dia.	pc	1.00	1,968.00	492.00	1,968.00	492.00	2,460.00
	Gate Valve, 2" dia.	pc	2.00	984.00	246.00	1,968.00	492.00	2,460.00
	Gate Valve, 1" dia.	pc	1.00	492.00	123.00	492.00	123.00	615.00
	PVC Cement 400cc	can	2.00	212.50	53.13	425.00	106.25	531.25
	50mm Vent Screen	pc	3.00	245.00	61.25	735.00	183.75	918.75
	Male adapter with gasket and nuts	pc	6.00	309.00	77.25	1,854.00	463.50	2,317.50
	RWHT Support							
7.0410	L 100 x 100 x 6.0mm	kg	84.00	45.35	13.60	3,808.81	1,142.64	4,951.45
7.0810	L 75 x 75 x 6mm	kg	311.69	45.35	13.60	14,133.66	4,240.10	18,373.76
7.0710	L 65 x 65 x 6.0mm	kg	86.43	45.35	13.60	3,919.27	1,175.78	5,095.05
7.0300	Steel Plate, 6mm thk	kg	101.52	45.35	13.60	4,603.44	1,381.03	5,984.47
7.3600	Welding Rod	kg	9.64	112.01	33.60	1,080.01	324.00	1,404.01
13.110	Primer, Zinc Chromate	gal	1.00	653.26	163.32	653.26	163.32	816.58
	Pedestal/ Footing							
2.0200	Portland Cement	bag	1.00	252.96	75.89	252.96	75.89	328.85
2.0500	Washed Sand	cu.m	0.25	1,160.21	348.06	290.05	87.02	377.07
2.0300	Crushed Gravel 3/4"	cu.m	0.25	2,044.30	613.29	511.08	153.32	664.40
3.0900	10mm Ø x 6m RSB	kg	6.20	39.60	11.88	245.53	73.66	319.19
3.0900	12mm Ø x 6m RSB	kg	4.63	39.60	11.88	183.36	55.01	238.36
3.0500	16mm Ø x 6m RSB	kg	7.90	44.59	13.38	352.22	105.67	457.89
3.1200	G.I. Tie Wire	kg	0.37	77.40	23.22	28.64	8.59	37.23
	Sub-total							83,281.88
12.0000	Sanitary Works							
12.0110	Three Chamber Septic Vault	unit	1.00	125,548.48	37,864.54	125,548.48	37,864.54	163,213.02
12.0100	Catch Basin	unit	19.00	1,526.54	457.96	29,004.23	8,701.27	37,705.50
12.0400	PVC Sanitary Pipe 6"Ø x 3.0m	pc	9.00	1,261.62	378.48	11,354.54	3,406.36	14,760.90
12.0500	PVC Sanitary Pipe 4"Ø x 3.0m	pc	54.00	587.25	176.18	31,711.54	9,513.46	41,225.00
12.0700	PVC Sanitary Pipe 2"Ø x 3.0m	pc	15.00	228.69	68.61	3,430.38	1,029.12	4,459.50
12.0900	PVC Sanitary Elbow 90° x 4"Ø	pc	26.00	106.54	31.96	2,770.00	831.00	3,601.00
12.1100	PVC Sanitary Elbow 90° x 2"Ø	pc	24.00	31.88	9.57	765.23	229.57	994.80
12.1300	PVC Sanitary Elbow 1/8 x 4"Ø	pc	2.00	87.04	26.11	174.08	52.22	226.30
12.1410	PVC Sanitary Elbow 1/8 x 2"Ø	pc	4.00	20.50	6.15	82.00	24.60	106.60
12.2110	PVC Sanitary Tee 4" x 4"	pc	13.00	138.00	41.40	1,794.00	538.20	2,332.20
12.2200	PVC Sanitary Tee 2" x 2"	pc	16.00	40.62	12.18	649.85	194.95	844.80
12.1500	PVC Sanitary Wye 6" x 6"	pc	13.00	422.92	126.88	5,498.00	1,649.40	7,147.40
12.1800	PVC Sanitary Wye 2" x 2"	pc	8.00	42.50	12.75	340.00	102.00	442.00
12.2800	PVC P-Trap 4"	pc	8.00	266.63	79.99	2,133.05	639.91	2,772.96
12.2700	PVC P-Trap 2"	pc	8.00	81.15	24.35	649.23	194.77	844.00
12.2400	Brass Cleanout 4" x 4"	pc	3.00	356.23	106.87	1,068.69	320.61	1,389.30
12.2500	Brass Cleanout 2" x 2"	pc	4.00	193.54	58.06	774.15	232.25	1,006.40
12.3000	PVC Cement	can	13.00	156.54	46.96	2,035.00	610.50	2,645.50

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
13.0000	Painting Works							
	Concrete surfaces	sq.m	788.40					
13.0100	Neutralizer	gal	10.00	209.24	52.31	2,092.42	523.11	2,615.53
13.0200	Latex, Flat	gal	32.00	554.04	138.51	17,729.23	4,432.31	22,161.54
13.0300	Masonry Putty	gal	32.00	409.94	102.49	13,118.15	3,279.54	16,397.69
13.0400	Latex, Semi Gloss	gal	32.00	608.44	152.11	19,470.08	4,867.52	24,337.60
13.0500	Acri Color	qrt	8.00	192.77	48.19	1,542.19	385.55	1,927.74
	Wood surfaces	sq.m	518.04					
13.0600	Enamel, Flatwall	gal	26.00	625.27	156.32	16,257.10	4,064.28	20,321.38
13.0700	Glazing Putty	gal	26.00	577.42	144.36	15,013.00	3,753.25	18,766.25
13.0800	Enamel, Semi Gloss	gal	26.00	602.22	150.55	15,657.60	3,914.40	19,572.00
13.0900	Paint Thinner	gal	13.00	290.12	72.53	3,771.60	942.90	4,714.50
	Steel Surfaces							
13.1100	Primer, Zinc Chromate	gal	3.00	653.26	163.32	1,959.78	489.95	2,449.73
	Sub-total							133,263.95
15.0000	Waterproofing							
15.0100	Waterproofing, Cementitious	gal	42.00	539.53	161.86	22,660.29	6,798.09	29,458.38
	Sub-total							29,458.38
14.0000	Tile Works							
	Wall	sq.m	37.80					
14.0110	Glazed Wall Tiles 20cm x 20cm	pc	993.00	28.40	11.36	28,199.37	11,279.75	39,479.11
14.0300	Tile Adhesive 25 kg/bag	bag	7.00	281.17	112.47	1,968.21	787.28	2,755.49
14.0400	Tile Trim 6mm	pc	12.00	93.48	37.39	1,121.77	448.71	1,570.48
14.0500	Tile Grout 5 kg/bag	bag	3.00	159.62	63.85	478.85	191.54	670.38
	Flooring	sq.m	13.26					
14.0210	Unglazed Floor Tiles 20cm x 20cm	pc	349.00	31.06	12.42	10,840.48	4,336.19	15,176.67
14.0300	Tile Adhesive 25 kg/bag	bag	3.00	281.17	112.47	843.52	337.41	1,180.92
14.0500	Tile Grout 5 kg/bag	bag	1.00	159.62	63.85	159.62	63.85	223.46
	Sub-total							61,056.52
SCHOOL FURNITURE								
16.0000	Table and Chair							
16.0300	Two (2) - seater table and chair (All wood)	set	92.00	4,800.00	-	441,600.00	-	441,600.00
16.0400	Teacher's table and chair (All wood)	set	4.00	4,000.00	-	16,000.00	-	16,000.00
	Sub-total							457,600.00
SOLAR PV ENERGY SYSTEM - (for Four (4) Classrooms)								
17.0100	Charging Station							
	Roughing-ins							
10.0100	Electrical Conduit uPVC, 15mmØ	pc	8.00	56.62	5.66	452.92	45.29	498.22
10.0490	RSC 20mmØ	pc	1.00	112.50	11.25	112.50	11.25	123.75
10.1200	Junction Box, 4" x 4" G.I.	pc	6.00	28.81	2.88	172.85	17.28	190.13
10.1300	Utility Box, 2" x 4" G.I.	pc	25.00	38.75	3.88	968.85	96.88	1,065.73
10.1400	Grounding Rod, 2.4m x 16mm dia.	pc	1.00	175.38	17.54	175.38	17.54	192.92
	Wires and Fixtures							
	3.5 mm2 THW Wire, Stranded	m	192.00	33.00	3.30	6,336.00	633.60	6,969.60
	Duplex C.O. with Plate	pc	20.00	263.80	26.38	5,276.00	527.60	5,803.60
	Charging C.O. Panelling	set	1.00	1,500.00	150.00	1,500.00	150.00	1,650.00
	18W Compact Fluorescent Lighting Fixture with Medium Keyless type Porcelain Receptacle (surfaced ceiling mounted)	pc	1.00	215.00	21.50	215.00	21.50	236.50
	Circuit Breaker 10A, 2P	pc	3.00	313.00	31.30	939.00	93.90	1,032.90
10.5500	Electrical Tape	pc	1.00	37.38	3.74	37.38	3.74	41.12
	Sub-total							17,804.47
17.0200	Solar PV Power System							
	12 kw off-grid Solar Panels (complete set including delivery, installations, testing and commissioning)	set	1.00	3,550,000.00	355,000.00	3,550,000.00	355,000.00	3,905,000.00
	72 x 182w (NOCT) Polycrystalline Solar Panels							
	75A Solar Charge Controller							
	180,800 Wh/Day Max Capacity (100 pcs) Battery							
	12,000 Watts Power Inverter							
	Complete Roof/Ares Mounting Kit w/ Security							
	PV Combiner Box							
	MC4 Connectors							
	Power Distribution Panels							
	AC surge and Lighting Protection Device							
	DC surge and Lighting Protection Device							
	Required Inter-Connection Wires							
	Sub-total							3,905,000.00

92

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
17.0300	Solar Water Pumping System							
	Complete Set 1.5KW solar-Powered Sub. Pump	set	1.00	145,000.00	14,500.00	145,000.00	14,500.00	159,500.00
	90 meters Pump Head, 6.5 cu.m/Hr Flow							
	12 x 150w Polycrystalline Solar Panels							
	1,440 Max PV Capacity PWM Solar Charge Controller							
	9,600 Wh Max Capacity Lead Acid Battery							
	1,500 Watts PSW Power Inverter							
	Complete Roof Mounting Kit							
	PV Combine Box							
	MC4 Connectors							
	Power Control Box							
	Sub-total							159,500.00
17.0400	Perimeter Solar Lighting System							
	Complete Set 6000k CCT, Crisp White	set	6.00	75,000.00	7,500.00	450,000.00	45,000.00	495,000.00
	Auto switch On/Off, Wire-less, Pole-mount							
	GI Lamp Pole, 6 Meters Height							
	Sub-total							495,000.00
WATER SYSTEM (DESIGN OPTION 1)								
18.0100	Drilling (Deep Well)							
	Drilling (6" diameter) including other materials needed in drilling	ft	200.00	1,864.87	559.46	372,974.00	111,892.20	484,866.20
	Sub-total							484,866.20
18.0200	Piping System and Overhead Water Tank							
	Stainless Steel Overhead Water Tank (1,200 Gals Capacity) with complete accessories	set	1.00	81,000.00	16,200.00	81,000.00	16,200.00	97,200.00
	6"Ø GI pipe Sch 40 x 6m length	pc	10.00	5,512.50	1,653.75	55,125.00	16,537.50	71,662.50
	1-1/4"Ø GI pipe Sch 40 x 6m length	pc	13.00	998.00	299.40	12,974.00	3,892.20	16,866.20
	1-1/2"Ø GI pipe Sch 40 x 6m length	pc	4.00	1,078.00	323.40	4,312.00	1,293.60	5,605.60
	Coupling, 1-1/4"Ø GI	pc	13.00	123.00	36.90	1,599.00	479.70	2,078.70
	Coupling, 1-1/2"Ø GI	pc	4.00	147.00	44.10	588.00	176.40	764.40
	Coupling, 6" Ø GI	pc	10.00	588.00	176.40	5,880.00	1,764.00	7,644.00
	90 deg Elbow, 1-1/4"Ø GI	pc	4.00	40.00	12.00	160.00	48.00	208.00
	90 deg Elbow, 1-1/2"Ø GI	pc	2.00	46.00	13.80	92.00	27.60	119.60
	90 deg Elbow, 6" Ø GI	pc	2.00	184.00	55.20	368.00	110.40	478.40
	Gate Valve, 1-1/2"Ø	pc	1.00	1,050.00	315.00	1,050.00	315.00	1,365.00
11.4200	Teflon Tape	roll	23.00	13.31	3.99	306.08	91.82	397.90
	5-10mm Ø Pebbles	kg	100.00	50.00	15.00	5,000.00	1,500.00	6,500.00
	Sub-total							210,890.30
18.0300	Overhead Water Tank Support Earthworks							
1.0200	Structural Excavation	cu.m	13.50	-	285.82	-	3,858.56	3,858.56
1.0300	Backfilling and Compaction	cu.m	10.80	-	230.13	-	2,485.45	2,485.45
1.0400	Gravel Bedding G-1	cu.m	0.90	-	283.15	-	254.83	254.83
	Concreting Works	cu.m	10.07					
2.0200	Portland Cement	bag	91.00	252.96	75.89	23,019.50	6,905.85	29,925.35
2.0300	Crushed Gravel 3/4"	cu.m	10.25	2,044.30	613.29	20,954.11	6,286.23	27,240.34
2.0500	Washed Sand	cu.m	5.25	1,160.21	348.06	6,091.09	1,827.33	7,918.41
	Rebar Works							
3.0500	20mm Ø x 6m RSB	kg	237.12	44.59	13.38	10,572.08	3,171.63	13,743.71
3.0500	16mm Ø x 6m RSB	kg	681.30	44.59	13.38	30,375.84	9,112.75	39,488.59
3.0900	12mm Ø x 6m RSB	kg	66.22	39.60	11.88	2,622.28	786.68	3,408.96
3.0900	10mm Ø x 6m RSB	kg	602.14	39.60	11.88	23,845.87	7,153.76	30,999.63
3.1200	G.I. Tie Wire	kg	32.00	77.40	23.22	2,476.75	743.03	3,219.78
	Plastering / Topping	sq.m	78.25					
2.0200	Portland Cement	bag	26.00	252.96	75.89	6,577.00	1,973.10	8,550.10
2.0500	Washed Sand	cu.m	3.00	1,160.21	348.06	3,480.62	1,044.19	4,524.81
	Formworks	sq.m	75.18					
4.0100	Coco Lumber	bd.ft	827.00	32.25	6.45	26,673.93	5,334.79	32,008.72
4.0300	Plywood Ordinary, 1/2" x 4' x 8'	pc	20.00	791.91	158.38	15,838.15	3,167.63	19,005.78
4.0400	CWN, Assorted	kg	12.00	78.55	15.71	942.55	188.51	1,131.06
	Sub-total							227,764.08
18.0400	Railing and Ladder							
	2"Ø GI pipe Sch 20 x 6m length	pc	16.00	1,060.00	318.00	16,960.00	5,088.00	22,048.00
7.1050	50mm x 6mm Flat Bar	kg	36.66	45.35	13.60	1,662.35	498.71	2,161.06
	25mm x 25mm x 2mmthk x 6m length Square tubular	pc	2.00	378.22	113.47	756.44	226.93	983.37
7.3600	Welding Rod	kg	5.00	112.01	33.60	560.03	168.01	728.04
13.1100	Primer, Zinc Chromate	gal	1.00	653.26	163.32	653.26	163.32	816.58
	Sub-total							26,737.04

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
WATER SYSTEM (DESIGN OPTION 2)								
<i>Note: Elevation of water source is higher than school site.</i>								
18.0600	Piping System (1000 meters)							
	1-1/2"Ø uPVC Pipe (Blue)	pc	400.00	205.00	61.50	82,000.00	24,600.00	106,600.00
	Coupling, 1-1/2"Ø	pc	400.00	45.78	13.73	18,312.00	5,493.60	23,805.60
	90 deg Elbow, 1-1/2"Ø	pc	100.00	65.45	19.64	6,545.00	1,963.50	8,508.50
	Gate Valve, 1-1/2"Ø	pc	2.00	1,050.00	315.00	2,100.00	630.00	2,730.00
	PVC Primer (4 Oz.)	can	40.00	197.00	59.10	7,880.00	2,364.00	10,244.00
	PVC Cement (4 Oz.)	can	40.00	338.00	101.40	13,520.00	4,056.00	17,576.00
	Sub-total							169,464.10
WATER SYSTEM (DESIGN OPTION 3)								
18.0700	Drilling							
	Drilling (4" diameter) including other materials needed in drilling	ft	78.72	1,243.25	435.14	97,868.38	34,253.93	132,122.31
	Sub-total							132,122.31
18.0800	Piping System							
	Hand Water Pump Manual with complete accessories	set	1.00	1,989.00	596.70	1,989.00	596.70	2,585.70
	4"Ø GI pipe Sch 40 x 6m length	pc	4.00	3,675.00	1,102.50	14,700.00	4,410.00	19,110.00
	1-1/4"Ø GI pipe Sch 40 x 6m length	pc	4.00	998.00	299.40	3,992.00	1,197.60	5,189.60
	Coupling, 1-1/4"Ø GI	pc	3.00	123.00	36.90	369.00	110.70	479.70
	Coupling, 4" Ø GI	pc	3.00	395.00	118.50	1,185.00	355.50	1,540.50
	Teflon Tape	roll	6.00	25.00	7.50	150.00	45.00	195.00
	5-10mm Ø Pebbles	kg	50.00	50.00	15.00	2,500.00	750.00	3,250.00
	Sub-total							32,350.50
2.0000	Concrete Flooring/ Pedestal	cu.m	0.23					
2.0200	Portland Cement	bag	3.00	252.96	75.89	758.88	227.67	986.55
2.0300	Crushed Gravel 3/4"	cu.m	0.25	2,044.30	613.29	511.08	153.32	664.40
2.0500	Washed Sand	cu.m	0.25	1,160.21	348.06	290.05	87.02	377.07
5.0400	10mm x 6m RSB	kg	9.30	39.60	11.88	368.30	110.49	478.79
3.1200	G.I. Tie Wire	kg	1.00	77.40	23.22	77.40	23.22	100.62
	Sub-total							2,607.42
I.	DIRECT COST (I + II)							12,455,356.87
II.	INDIRECT COST 17% of (I)							2,081,198.72
III.	TAX 5% of (I + II)							726,827.78
IV.	TOTAL CONSTRUCTION COST (I + II + III)							15,263,383.37

Prepared by:

DEPED Engineer

Recommending Approval:

Chief, SGOD

Approved:

Schools Division Superintendent

Concurred:

ENGR. ANNABELLE R. PANGAN
Chief, EPD - AS