



**CONSTRUCTION OF AUTOMOTIVE LABORATORY BUILDING  
NORTHWESTERN MINDANAO STATE COLLEGE OF SCIENCE & TECH.  
BRGY. LABUYO, TANGUB CITY, MISAMIS OCCIDENTAL**

**COST ESTIMATES**

<b>Item 803</b>	<b>Structure Excavation</b>			<b>100.16 cu.m.</b>	
	<b>Labor:</b>				
	Foreman - 1	5 days @	562.39 /day	=	2,811.95
	Laborer - 10	5 days @	312.54 /day	=	15,627.00
				=P	<u>18,438.95</u>
				Direct Cost =P	18,438.95
				Unit Cost =	184.09 /cu.m.
	<b>Indirect Cost:</b>				
	8% CP =		1,475.12		
	9% OCM =		1,659.51		
	5% VAT =		<u>1,078.68</u>		
			4,213.30		
				Estimated Cost =P	<b>22,652.25</b>
				Adj. Unit Cost =	226.15 /cu.m.
<b>Item 804</b>	<b>Embankment</b>			<b>250.76 cu.m.</b>	
	<b>Materials:</b>				
	Use Excavated Materials for Backfilling		182.00 cu.m.		
	Ordinary Gravel	70.00 cu.m. @	750.00 /cu.m.	=	52,500.00
				=P	<u>52,500.00</u>
	<b>Labor:</b>				
	Foreman - 1	4.00 days @	562.39 /day	=	2,249.56
	Laborer - 6	4.00 days @	312.54 /day	=	7,500.96
				=P	<u>9,750.52</u>
	<b>Equipment:</b>				
	Plate Compactor - 1	2.00 days @	1,648.00 /day	=	3,296.00
				Direct Cost =P	65,546.52
				Unit Cost =	261.39 /cu.m.
	<b>Indirect Cost:</b>				
	8% CP =		5,243.72		
	9% OCM =		5,899.19		
	5% VAT =		<u>3,834.47</u>		
			14,977.38		
				Estimated Cost =P	<b>80,523.90</b>
				Adj. Unit Cost =	321.11 /cu.m.
<b>Item 1000</b>	<b>Soil Poisoning</b>			<b>266.00 sq.m.</b>	
	<b>Materials:</b>				
	Soil Poisoning (chlordine)	27.00 ltrs. @	350.00 /ltr.	=P	9,450.00
	<b>Labor:</b>				

Const. Foreman	1	1.00 day @	562.39 /day	=	562.39
Laborers	3	1.00 day @	312.54 /day	=	<u>937.62</u>
				=P	1,500.01

Direct Cost =P 10,950.01  
Unit Cost = 41.17 /sq.m.

**Indirect Cost:**

8%	CP =	876.00
9%	OCM =	985.50
5%	VAT =	<u>640.58</u>
		2,502.08

Estimated Cost =P 13,452.09  
Adj. Unit Cost = 50.57 /sq.m.

**Item 405 Structural Concrete 56.23 cu.m**

**Materials:**

Portland Cement	535.00 bags @	260.00 /bag	=	139,100.00
Sand	36.00 cu.m. @	800.00 /cu.m.	=	28,800.00
Crushed Gravel	47.00 cu.m. @	1,000.00 /cu.m.	=	47,000.00
1/4"x4'x8' Ordinary Plywood	188.00 shts. @	360.00 /sht.	=	67,680.00
Coco Lumber assorted lumber	5,529.00 bf @	18.00 /bf	=	99,522.00
CW Nails Assorted	208.00 kgs. @	65.00 /kg.	=	<u>13,520.00</u>
			=P	395,622.00

**Labor:**

Foreman -	1	18.00 days @	562.39 /day	=	10,123.02
Skilled -	8	18.00 days @	406.04 /day	=	58,469.76
Laborer -	10	18.00 days @	312.54 /day	=	<u>56,257.20</u>
				=P	124,849.98

**Equipment:**

Bagger Mixer	1	20.00 days @	1,376.00 /day	=	27,520.00
Concrete Vibrator	1	20.00 days @	1,096.00 /day	=	<u>21,920.00</u>
				=P	49,440.00

Direct Cost =P 569,911.98  
Unit Cost = 10,136.27 /cu.m.

**Indirect Cost:**

8%	CP =	45,592.96
9%	OCM =	51,292.08
5%	VAT =	<u>33,339.85</u>
		130,224.89

Estimated Cost =P 700,136.87  
Adj. Unit Cost = 12,452.41 /cu.m.

**Item 404 Reinforcing Steel 7,334.82 kgs.**

**Materials:**

16 mmØ x 6.00 m. Def. Bars	498.00 pcs. @	420.00 /pc.	=	209,160.00
10 mmØ x 6.00 m. Def. Bars	708.00 pcs. @	160.00 /pc.	=	113,280.00
# 16 Tie Wire	221.00 kgs. @	70.00 /kgs.	=	<u>15,470.00</u>
			=P	337,910.00

**Labor:**

Const. Foreman -	1	8.00 days @	562.39 /day	=	4,499.12
Skilled Laborers -	9	8.00 days @	406.04 /day	=	29,234.88
Laborers -	10	8.00 days @	312.54 /day	=	25,003.20
				=P	58,737.20

**Equipment:**

Bar Cutter -	1	9.00 days @	1,376.00 /day	=	12,384.00
Bar Bender -	1	9.00 days @	1,096.00 /day	=	9,864.00
				=P	22,248.00

Direct Cost =P 418,895.20  
Unit Cost = 57.11

**Indirect Cost:**

8%	CP =	33,511.62
9%	OCM =	37,700.57
5%	VAT =	24,505.37
		<u>95,717.55</u>

/kg.

Estimated Cost =P 514,612.75  
Adj. Unit Cost = 70.16

/kg.

Item 704      **Masonry Works**      **352.36 sq.m**

**Material:**

100mm thk CHB	4,405.00 pcs @	23.00 /pc.	101,315.00
Portland Cement	359.00 bags @	260.00 /bag	93,340.00
Sand	30.00 cu.m @	800.00 /cu.m	24,000.00
			=P 218,655.00

**Labor:**

Foreman -	1	10.00 days @	562.39 /day	=	5,623.90
Skilled -	6	10.00 days @	406.04 /day	=	24,362.40
Laborer -	8	10.00 days @	312.54 /day	=	25,003.20
				=P	54,989.50

Direct Cost =P 273,644.50  
Unit Cost = 776.60

**Indirect Cost:**

8%	CP =	21,891.56
9%	OCM =	24,628.01
5%	VAT =	16,008.20
		<u>62,527.77</u>

/sq.m.

Estimated Cost =P 336,172.27  
Adj. Unit Cost = 954.06

/sq.m

Item 1027      **Cement Plaster Finishes**      **352.36 0.00**

**Materials:**

Portland Cement	68 bags @	260.00 /bag	17,680.00
Sand	6 cu.m @	800.00 /cu.m	4,800.00
			=P 22,480.00

**Labor:**

Foreman -	1	1.00 days @	562.39 /day	=	562.39
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Skilled -	5	1.00 days @	406.04 /day	=	2,030.20
Laborer -	7	1.00 days @	312.54 /day	=	<u>2,187.78</u>
				=P	4,780.37

Direct Cost	=P	27,260.37
Unit Cost	=	77.37

**Indirect Cost:**

8%	CP =	2,180.83
9%	OCM =	2,453.43
5%	VAT =	<u>1,594.73</u>
		6,228.99

/sq.m

Estimated Cost	=P	33,489.36
Adj. Unit Cost		95.04

/sq.m

**Item 403 Metal Structures 6,251.64 kgs**

**Materials:**

<b>TRUSSES</b>	65mmx65mmx6mm thk. Angle Bar	65.00 pcs @	1,366.00 /pc.	88,790.00
	Purlins	150mmx65mmx20mmx2mm LC-Purlins	90.00 pcs @	1,107.00 /pc.
	Clip Angle	65mmx65mmx6mm thk. x 130mm	10.00 pcs @	1,366.00
	Steel Fascia	Angular bar 20x20x2mm thk	30.00 pcs @	229.20 /pc.
	Sag Rod	10mmØ x 6.00 m. Def. Bars	40.00 pcs @	230.00 /pc.
	Cross Bracing	12mmØ x 6.00 m. Def. Bars	40.00 pcs @	420.00 /pc.
		50mmx50mmx6mm thk. Angle Bar	13.00 pcs @	1,024.00 /pc.
		12 mmØ turnbuckle	112.00 pcs @	135.00 /pc.
		12dia x 150mm long anchor bolts	16.00 pcs @	74.00 /pc.
		10mmdia x 100mm long x 40 hook anchor bolt	2.00 pcs @	24.00 /pc.
		12mmdia x 200mm long round bar anchor bolt	12.00 pcs @	28.00 /pc.
		Welding Rod	62.52 kg @	145.00 /kg
				<u>9,064.88</u>

P = 274,020.73

**Labor:**

	Foreman -	1	8.00 days @	562.39 /day	=	4,499.12
	Welder/Skilled Laborer -	4	8.00 days @	406.04 /day		12,993.28
	Laborer -	4	8.00 days @	312.54 /day		<u>10,001.28</u>

P 27,493.68

**Equipment Rental:**

	Welding Machine -	1	8.00 days @	1,864.00 /day		14,912.00
	Electrical Sander -	1	8.00 days @	1,400.00 /day	=	<u>11,200.00</u>

P 26,112.00

Direct Cost	P	327,626.41
Unit Cost		52.41

**Indirect Cost:**

8%	CP =	26,210.11
9%	OCM =	29,486.38
5%	VAT =	<u>19,166.14</u>
		74,862.63

/kg

Estimated Cost	P	402,489.04
Adj. Unit Cost		64.38

/kg

**Pre-Painted Metal Sheets**

**381.30 sq.m**

**Materials:**

Long Span Roofing, Pre-painted

Item 1013

G.I Roofing Sheets (.40mm thk.)	382.00	sq.m	@	385.00	/sq.m	=	147,070.00
Pre-Painted, Pre-Formed Ridge Roll (0.60mm thk.)	30.00	mtrs	@	237.00	/mtr	=	7,110.00
Preformed, Pre-Painted G. I. Gutter (0.60mm thk.)	60.00	mtrs	@	348.00	/mtr	=	20,880.00
Preformed, Pre-Painted G. I. Flashing Sheet (0.60mm thk.)	86.00	mtrs	@	307.00	/mtr	=	26,402.00
12x300mm Fiber Cement Fascia Board	9.00	shts	@	450.00	/sht	=	4,050.00
6mm J-bolt w/ Neoprene Gasket & Nut	4,576.00	pcs	@	3.00	/pc	=	13,728.00
Rivets	870.00	pcs	@	2.50	/pc.	=	2,175.00
Roof Sealant	2.00	ltrs	@	240.15	/ltr	=	480.30
						=P	<u>221,895.30</u>

**Labor:**

Foreman -	1	12.00	days	@	562.39	/day	=	6,748.68
Tinsmithe/Skilled Laborer -	6	12.00	days	@	406.04	/day	=	29,234.88
Laborer -	9	12.00	days	@	312.54	/day	=	<u>33,754.32</u>
							=P	<u>69,737.88</u>

**Equipment Rental:**

Welding Machine -	1	8.00	days	@	1,864.00	/day	=	14,912.00	/sq.m.
Electrical Sander -	1	8.00	days	@	1,400.00	/day	=	<u>11,200.00</u>	
								<u>26,112.00</u>	

Direct Cost =P 317,745.18  
 Unit Cost = 833.32

**Indirect Cost:**

8%	CP =	25,419.61
9%	OCM =	28,597.07
5%	VAT =	<u>18,588.09</u>
		<u>72,604.77</u>

Estimated Cost =P **390,349.95** /sq.m.  
 Adj. Unit Cost 1,023.73

**Ceiling**

**214.13 sq.m**

SPL - I

**Materials:**

Hardiflex Fiber Board (4.50 mm)	156.00	shts.	@	360.00	/sht.	=	56,160.00
Double Furring Channel (nailer)	191.00	pcs.	@	488.00	/pc.	=	93,208.00
19mm x 50mm x 0.5mm thk							
Carrying Channel (ceiling joist)	93.00	pcs.	@	488.00	/pc.	=	45,384.00
12mm x 38mm x .8mm thk							
Wall Angle Trim 25mm x 40mm X 0.5mm thk	75.00	pcs.	@	169.00	/pc.	=	12,675.00
Pre-formed Wire Clip, GI tie wire No 16	13.00	kgs.	@	70.00	/kg.	=	910.00
Rod Suspension Hanger with Adjustment Spring	275.00	pcs.	@	20.00	/pc.	=	5,500.00
C- 75x50x20x2mm	81.00	pcs.	@	660.00	/pc.	=	53,460.00
Blind Rivets	1,168.00	pcs.	@	2.50	/pc.	=	2,920.00
Tekscrew	769.00	pcs	@	3.00	/pc.	=	2,307.00
Concrete Nails	13.00	kgs.	@	95.00	/kg.	=	1,235.00
Ceiling Air Vent	14.00	units	@	600.00	/unit	=	<u>8,400.00</u>
						=P	<u>282,159.00</u>

**Labor:**

Foreman -	1	9.00 days @	562.39 /day	=	5,061.51
Skilled -	7	9.00 days @	406.04 /day	=	25,580.52
Laborer -	7	9.00 days @	312.54 /day	=	<u>19,690.02</u>
				=P	50,332.05

**Equipment:**

Handrill	2	9.00 days @	152.00 /day	=	2,736.00
Rlveter	1	9.00 days @	100.00 /day	=	<u>900.00</u>
				=P	3,636.00

/sq.m.  
 Direct Cost =P 336,127.05  
 Unit Cost = 1,569.73

**Indirect Cost:**

8%	CP =	26,890.16
9%	OCM =	30,251.43
5%	VAT =	<u>19,663.43</u>
		76,805.03

/sq.m.  
 Estimated Cost =P 412,932.08  
 Adj. Unit Cost = 1,928.42

**Item 1009**

**Windows**

11 sets

**Materials:**

W-1	French Window on concrete Jamb	23.94 sq.m @	790.00 /sq.m	=	18,912.60
1.90 x 1.80	With complete Hardware And Accessories				
	-				
	-				
	7.00 sets				
W-2	3mm Thk. x 2" x 3" Rectangular steel tubing	8.74 sq.m @	4,050.00 /sq.m	=	35,380.80
4.625					
	-				
	-				
	4.00 sets				

P 54,293.40

**Labor:**

Foreman -	1	8.00 days @	562.39 /day	=	4,499.12
Skilled Laborer -	5	8.00 days @	406.04 /day	=	16,241.60
Laborer -	5	8.00 days @	312.54 /day	=	<u>12,501.60</u>
				=P	33,242.32

**Equipment Rental:**

Welding Machine -	1	8.00 days @	1,864.00 /day	=	14,912.00
Electrical Sander -	1	8.00 days @	1,400.00 /day	=	<u>11,200.00</u>
					26,112.00

Direct Cost =P 113,647.72  
 Unit Cost = 10,331.61

**Indirect Cost:**

8%	CP =	9,091.82
9%	OCM =	10,228.29

/set

5% VAT =  $\frac{6,648.39}{25,968.50}$

Estimated Cost =P **139,616.22**  
 Adj. Unit Cost 12,692.38

**Item 1010**

D-1  
 3.20 x 2.50

**Doors** 14 sets

**Materials:**

Steel Roll-up Doors 32.68 sq.m @ 3,500.00 /sq.m = 114,366.00  
 Complete With Hardware And Accessories

D-2  
 0.90 x 2.40

**Doors** /set

**Materials:**

Hardwood Panel Door Type 6.48 sq.m @ 3,000.00 /sq.m = 19,440.00

D-3  
 0.60 x 2.00

Complete With Hardware And Accessories  
 Keyed- Lever Type Lockset;  
 3 pcs - 3-3/4"x 1-1/2" door hinge  
 3.00 sets

Hollow Core Flush Type Swing Door 2.40 sq.m @ 900.00 /sq.m = 2,160.00  
 Hardwood Jamb w/ Marine Plywood Facing  
 Inside And Ordinary Outside

D-4  
 0.80 x 2.10

Complete w/ Hardware and Accessories.  
 Provide : Kick Plate; Keyed- Lever Type Lockset;  
 3 pcs - 3-3/4"x 1-1/2" door hinge  
 2.00 set

Hollow Core Flush Type Swing Door 8.40 sq.m @ 900.00 /sq.m = 7,560.00  
 Hardwood Jamb and aluminum materials  
 Complete w/ Hardware and Accessories.  
 Keyed- Lever Type Lockset;  
 3 pcs - 3-3/4"x 1-1/2" door hinge  
 0  
 5.00 sets

P 143,526.00

**Labor:**

Foreman -	1	8.00 days @	562.39 /day	=	4,499.12
Skilled Laborer -	6	8.00 days @	406.04 /day	=	19,489.92
Laborer -	8	8.00 days @	312.54 /day	=	20,002.56
				=P	<u>43,991.60</u>

**Equipment Rental:**

Welding Machine -	1	8.00 days @	1,864.00 /day		14,912.00
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Electrical Sander - 1 8.00 days @ 1,400.00 /day = 11,200.00  
26,112.00

Direct Cost =P 213,629.60  
Unit Cost = 15,259.26 /set

**Indirect Cost:**

8% CP = 17,090.37  
9% OCM = 19,226.66  
5% VAT = 12,497.33  
48,814.36

Item 1100

Estimated Cost =P **262,443.96**  
Adj. Unit Cost 18,746.00 /set

**Electrical 266.00 sq.m**

**Materials:**

**Roughing-ins:**

Electrical Conduit PVC, 20mmØ	40.00	pcs	@	50.00 /pc	=	2,000.00
Polyflex pipe 1", flexible	250.00	mtrs.	@	18.00 /mtr.	=	4,500.00
PVC Clip 1"	50.00	pcs.	@	5.00 /pc.	=	250.00
RSC 25mmØ	1.00	pcs	@	339.00 /pc	=	339.00
Entrance Cap 25mmØ	1.00	pcs	@	75.00 /pc	=	75.00
Junction Box, 4"x4"	20.00	pcs	@	15.00 /pc	=	300.00
Utility Box, 2"x4" (metal)	20.00	pcs	@	95.00 /pc	=	1,900.00
Grounding Rod, 2.4 m x 16 mm Ø	1.00	pcs	@	150.00 /pc	=	150.00

**Wires & Fixtures:**

3.5mm2 THW Wire, Stranded	250.00	m	@	24.00 /m	=	6,000.00
5.50mm2 THW Wire, Stranded	250.00	m	@	65.00 /m	=	16,250.00
8.0mm2 THW Wire, Stranded	10.00	m	@	92.00 /m	=	920.00
2.0mm2 THW Wire, Stranded	200.00	m	@	130.00 /m	=	26,000.00
14mm2 THW Wire, Stranded	10.00	m	@	184.00 /m	=	1,840.00
Panel Board	2.00	sets	@	1,900.00 /set	=	3,800.00
Circuit Breaker,100A 2P	2.00	sets		1,417.00 /set	=	2,834.00
Circuit Breaker,30A 2P	2.00	sets	@	1,200.00 /set	=	2,400.00
Circuit Breaker,15A 2P	2.00	sets	@	285.00 /set	=	570.00
Circuit Breaker,20A 2P	6.00	sets	@	350.00 /set	=	2,100.00
Single Switch with Plate	4.00	pcs.	@	78.00 /pc.	=	312.00
2-Gang Switch with Plate	1.00	pcs.	@	142.00 /pc.	=	142.00
3-Gang Switch with Plate	1.00	pcs.	@	175.00 /pc.	=	175.00
Fan Control Switch	2.00	pcs.	@	155.00 /pc.	=	310.00
1x36 Watts Fluorescent Lighting Fixtures, Box Type	7.00	sets	@	484.00 /set	=	3,388.00
2x36 Watts Fluorescent Lighting Fixtures, Box Type	8.00	sets	@	1,295.00 /set	=	10,360.00
Flourescent Lighting Fixture, box type (2-36 W) w/ canopy base and stem	3.00	sets	@	1,400.00 /set	=	4,200.00
18 Watts Compact Fluorescent Lamp w/ Medium Base Keyless Type Porcelain Receptacle	2.00	sets	@	220.00 /set	=	440.00
Weatherproof Duplex Convenience Outlet,Grounding Type,15AMP,240 Volt	2.00	sets	@	367.00 /set	=	734.00
Duplex Convenience Outlet,Grounding Type	6.00	pcs.	@	130.00 /pc.	=	780.00
Wall Fan Outlet	2.00	sets	@	250.00 /set	=	500.00
Splitter Knob Porcelain	45.00	pcs	@	16.50 /set	=	742.50
Electric Service Meter	1.00	sets	@	550.00 /set	=	550.00
Vibrating Bell 8"	2.00	sets	@	1,500.00 /set	=	3,000.00



Gfire Alarm Bell, Vibrating Type	2.00 sets @	1,665.00 /set	=	3,330.00
Fire Alarm Station, Manual Single Action	2.00 sets @	1,500.00 /set	=	3,000.00
Electrical Tape	4.00 roll @	32.00 /roll	=	128.00
			P	<u>104,319.50</u>

**Labor:**

Foreman - 1	8.00 days @	562.39 /day	=	4,499.12
Skilled Laborer - 4	8.00 days @	406.04 /day	=	12,993.28
Laborer - 6	8.00 days @	312.54 /day	=	15,001.92
			=P	<u>32,494.32</u>

Direct Cost =P 136,813.82  
Unit Cost = 514.34 /sq.m

**Indirect Cost:**

8%	CP =	10,945.11
9%	OCM =	12,313.24
5%	VAT =	8,003.61
		<u>31,261.96</u>

Estimated Cost =P 168,075.78  
Adj. Unit Cost 631.86 /sq.m

Item 1002

**Plumbing and Sanitary Works**

34.63 sq.m

**Materials:**

**Septic Tank**

100mm thk CHB	400.00 pcs @	23.00 /pc.	=	9,200.00
Portland Cement	68.00 bags @	260.00 /bag	=	17,680.00
Sand	31.00 cu.m @	800.00 /cu.m	=	24,800.00
Crushed Gravel	2.00 cu.m. @	1,000.00 /cu.m.	=	2,000.00
10mmdia. X 6m def. bars	44.00 pcs @	160.00 /pc.	=	7,040.00
#16 Tie wire	3.00 kgs @	70.00 /kg.	=	210.00

**Plumbing**

Water Closet including fittings & acc.	5.00 sets @	3,530.00 /set	=	17,650.00
Lavatory including fittings & acc.	2.00 sets @	1,850.00 /set	=	3,700.00
Urinal including fittings & acc	2.00 sets @	2,200.00 /set	=	4,400.00
Faucet	7.00 pcs. @	120.00 /pc	=	840.00
Mirror w/ Aluminum frame, 600X600mm	2.00 pcs. @	150.00 /pc	=	300.00
6"x6" Floor Drain	3.00 pcs. @	98.00 /pc	=	294.00
4"x4" Sink Drain	2.00 pcs. @	92.00 /pc	=	184.00
100mmØ PVC Pipe	10.00 pcs. @	685.00 /pc	=	6,850.00
75mmØ PVC Pipe	2.00 pcs. @	420.00 /pc	=	840.00
50mmØ PVC Pipe	10.00 pcs. @	295.00 /pc	=	2,950.00
100mmØ P-Trap w/ plug & sealing ring	15.00 pcs. @	300.00 /pc	=	4,500.00
100mmØ PVC P-Trap	8.00 pcs. @	120.00 /pc	=	960.00
100mmØ PVC Clean Out w/ plug	5.00 pcs. @	60.00 /pc	=	300.00
100mmØ PVC Coupling	5.00 pcs. @	75.00 /pc	=	375.00
75mmØ PVC Coupling	2.00 pcs. @	56.00 /pc	=	112.00
100mm x 50mm Ø PVC Wye	9.00 pcs. @	92.00 /pc	=	828.00
100mm x 50mmØ PVC reducer	6.00 pcs. @	37.00 /pc	=	222.00
50mmØ PVC Tee	8.00 pcs. @	37.00 /pc	=	296.00
50mmØ PVC Elbow, 45 deg.	34.00 pcs. @	32.00 /pc	=	1,088.00
50mm x 50mm Ø PVC Wye	13.00 pcs. @	85.00 /pc	=	1,105.00

32mmØ PVC Blue Pipe	3.00	pcs.	@	205.00	/pc	=	615.00
25mmØ PVC Blue Pipe	1.00	pcs.	@	120.00	/pc	=	120.00
20mmØ PVC Blue Pipe	2.00	pcs.	@	118.00	/pc	=	236.00
20mmØ PVC Blue Pipe, perforated	1.00	pcs.	@	220.00	/pc	=	220.00
25x35mmØ PVC Blue Pipe Reducer	2.00	pcs.	@	48.00	/pc	=	96.00
32mmØ PVC Blue Tee	7.00	pcs.	@	24.00	/pc	=	168.00
25mmØ PVC Blue Tee	1.00	pcs.	@	14.00	/pc	=	14.00
20mmØ PVC Blue Tee	16.00	pcs.	@	10.00	/pc	=	160.00
32mmØ PVC Blue Elbow	16.00	pcs.	@	32.00	/pc	=	512.00
20mmØ PVC Blue Elbow	10.00	pcs.	@	14.00	/pc	=	140.00
32mmØ PVC Blue Coupling	3.00	pcs.	@	18.00	/pc	=	54.00
25mmØ PVC Blue Coupling	1.00	pcs.	@	17.00	/pc	=	17.00
20mmØ PVC Blue Coupling	2.00	pcs.	@	15.00	/pc	=	30.00
Gate Valve 1/2"	5.00	pcs.	@	300.00	/pc	=	1,500.00
Teflon tape	6.00	rolls	@	30.00	/roll	=	180.00
PVC Solvent	2.00	cans	@	42.00	/can	=	84.00
						=P	112,870.00

**Labor:**

Foreman -	1	10.00	days	@	562.39	/day	=	5,623.90
Skilled -	4	10.00	days	@	406.04	/day	=	16,241.60
Laborer -	5	10.00	days	@	312.54	/day	=	15,627.00
							=P	37,492.50

Direct Cost =P 150,362.50  
Unit Cost = 4,342.60 /sq.m

**Indirect Cost:**

8%	CP =	12,029.00
9%	OCM =	13,532.63
5%	VAT =	8,796.21
		<u>34,357.83</u>

Item 1001

Estimated Cost =P 184,720.33  
Adj. Unit Cost 5,334.88 /sq.m

**Storm and Sewerage System**

3.00 units

**Materilas:**

150mm thk CHB	120.00	pcs	@	23.00	/pc.	=	2,760.00
Portland Cement	39.00	bags	@	260.00	/bag	=	10,140.00
Sand	19.00	cu.m	@	800.00	/cu.m	=	15,200.00
Crushed Gravel	0.50	cu.m.	@	1,000.00	/cu.m.	=	500.00
10mmdia. X 6m def. bars	20.00	pcs	@	160.00	/pc.	=	3,200.00
#16 Tie wire	1.00	kgs	@	70.00	/kg.	=	70.00

**PIPING WORKS**

Basket Strainer	3.00	pcs.	@	68.00	/pc	=	204.00
75mmØ PVC Pipe	13.00	pcs.	@	420.00	/pc	=	5,460.00
150mmØ PVC Pipe	18.00	pcs.	@	580.00	/pc	=	10,440.00
200mmØ PVC Pipe	2.00	pcs.	@	625.00	/pc	=	1,250.00
75mmØ PVC Blue Union	10.00	pcs.	@	56.00	/pc	=	560.00
75mmØ PVC Elbow	30.00	pcs.	@	53.00	/pc	=	1,590.00
150mmØ PVC Blue Union	17.00	pcs.	@	114.00	/pc	=	1,938.00
200mmØ PVC Blue Union	2.00	pcs.	@	120.00	/pc	=	240.00
Plain G. I Sheet for Strap	20.00	pcs.	@	12.00	/pc	=	240.00
						P	<u>53,792.00</u>

**Labor:**

Foreman -	1	4.00 days @	562.39 /day	=	2,249.56
Skilled -	3	4.00 days @	406.04 /day	=	4,872.48
Laborer -	3	4.00 days @	312.54 /day	=	<u>3,750.48</u>
				=P	10,872.52

Direct Cost =P	64,664.52
Unit Cost =	21,554.84 /cu.m.

**Indirect Cost:**

8%	CP =	5,173.16
9%	OCM =	5,819.81
5%	VAT =	<u>3,782.87</u>
		14,775.84

Estimated Cost =P	<b>79,440.36</b>
Adj. Unit Cost =	26,480.12 /sq.m

Item 1018

**Tile Works**

55.62 sq.m

**Materials:**

200x200" unglazed vitrified floor tiles	440.00 pcs @	35.00 /pc	=	15,400.00
200x200 glazed vitrified wall tiles	1,090.00 pcs @	32.00 /pc	=	34,880.00
tile trim	5.00 pcs @	35.00 /pc	=	175.00
cement	5.00 bags @	260.00 /bag	=	1,300.00
Tile Grout (5kg/bag)	6.00 bags @	65.00 /bag	=	390.00
Tile Adhesive (25kg/bag)	7.00 bags @	260.00 /bag	=	<u>1,820.00</u>
			P	53,965.00

**Labor:**

Foreman -	1	5.00 days @	562.39 /day	=	2,811.95
Skilled -	5	5.00 days @	406.04 /day	=	10,151.00
Laborer -	5	5.00 days @	312.54 /day	=	<u>7,813.50</u>
				=P	20,776.45

Direct Cost =P	74,741.45
Unit Cost =	1,343.79 /sq.m

**Indirect Cost:**

8%	CP =	5,979.32
9%	OCM =	6,726.73
5%	VAT =	<u>4,372.37</u>
		17,078.42

Estimated Cost =P	<b>91,819.87</b>
Adj. Unit Cost	1,650.84 /sq.m

Item 1032

**Painting**

415.47 sq.m.

**Materials:**

Latex Flatwall	10.00 gals @	500.00 /gal.	=	5,000.00
Latex, Semi Gloss	8.00 gals @	650.00 /gal.	=	5,200.00
Masonry Putty	7.00 gals @	295.00 /gal.	=	2,065.00
Neutralizer	3.00 gals @	556.00 /gal.	=	1,668.00
Paint Thinner	4.00 gals @	290.00 /gal.	=	1,160.00
Acri Color	2.00 gals @	165.00 /gal.	=	330.00

Enamel Flat	8.00 gals	@	565.00 /gal.	=	4,520.00
Enamel Semi Gloss	8.00 gals	@	620.00 /gal.	=	4,960.00
Wood Putty	7.00 gals	@	574.00 /gal.	=	4,018.00
Red Oxide Primer	1.00 gals	@	550.00 /gal.	=	550.00
Tinting Color	2.00 ltr	@	150.00 /ltr	=	300.00
Paint Brush	4.00 pcs.	@	60.00 /pc.	=	240.00
Roller Brush	6.00 pcs.	@	90.00 /pc.	=	540.00
				P	<u>30,551.00</u>

**Labor:**

Foreman -	1	5.00 days	@	562.39 /day	=	2,811.95
Skilled -	4	5.00 days	@	406.04 /day	=	8,120.80
Laborer -	6	5.00 days	@	312.54 /day	=	9,376.20
					=P	<u>20,308.95</u>

Direct Cost =P 50,859.95  
Unit Cost = 122.41

**Indirect Cost:**

8%	CP =	4,068.80
9%	OCM =	4,577.40
5%	VAT =	<u>2,975.31</u>
		11,621.50

/sq.m

Estimated Cost =P **62,481.45**  
Adj. Unit Cost 150.39

SPL - 2

**School Facilities**

1.00 units

**Materials:**

Flat Latex , green	1.00 gal	@	620.00 /gal	=	620.00
Wood putty	4.00 litrs.	@	175.00 /ltr.	=	700.00
Paint Brush	4.00 pcs	@	55.00 /pc	=	220.00
				=P	<u>1,540.00</u>

**Labor:**

Foreman -	1	1.00 days	@	562.39 /day	=	562.39
Skilled -	3	1.00 days	@	406.04 /day	=	1,218.12
Laborer -	5	1.00 days	@	312.54 /day	=	1,562.70
					=P	<u>3,343.21</u>

Direct Cost =P 4,883.21  
Unit Cost = 4,883.21

**Indirect Cost:**

8%	CP =	390.66
9%	OCM =	439.49
5%	VAT =	<u>285.67</u>
		1,115.81

/unit

Estimated Cost =P **5,999.02**  
Adj. Unit Cost 5,999.02

SPL - 3

**Construction Safety and Health**

1,200 md

/unit

**Materials:**

Safety Shoes	1,200	m-day @	2.77	/m-day =	3,324.00
Safety gloves	1,200	m-day @	2.77	/m-day =	3,324.00
Safety Helmet	1,200	m-day @	7.67	/m-day =	<u>9,204.00</u>
				=P	15,852.00

First Aider -	1	5.00	days @	406.04	/day =	2,030.20
Part Time Safety Practitioner -	1	5.00	days @	562.39	/day =	<u>2,811.95</u>
					=P	4,842.15 /m-day

Direct Cost =P 20,694.15  
Unit Cost = 17.25

**Indirect Cost:**

8%	CP =	1,655.53	/m-day
5%	VAT =	<u>1,117.69</u>	
		2,773.23	

Estimated Cost =P **23,467.38**  
Adj. Unit Cost = 19.56

**SUMMARY OF COST ESTIMATES**

Item 803	Structure Excavation	=	22,652.25
Item 804	Embankment	=	80,523.90
Item 1000	Soil Poisoning	=	13,452.09
Item 405	Structural Concrete	=	700,136.87
Item 404	Reinforcing Steel	=	514,612.75
Item 704	Masonry Works	=	336,172.27
Item 1027	Cement Plaster Finishes	=	33,489.36
Item 403	Metal Structures	=	402,489.04
Item 1013	Pre-Painted Metal Sheets	=	390,349.95
SPL - I	Ceiling	=	412,932.08
Item 1009	Windows	=	139,616.22
Item 1010	Doors	=	262,443.96
Item 1100	Electrical	=	168,075.78
Item 1002	Plumbing and Sanitary Works	=	184,720.33
Item 1001	Storm and Sewerage System	=	79,440.36
Item 1018	Tile Works	=	91,819.87
Item 1032	Painting	=	62,481.45
SPL - 2	School Facilities	=	5,999.02
SPL - 3	Construction Safety and Health	=	<u>23,467.38</u>
		P	<u>3,924,874.95</u>