

Republic of the Philippines Department of Agriculture **BUREAU OF SOILS AND WATER MANAGEMENT** SRDC Bldg., Elliptical Road corner Visayas Avenue, Diliman, Quezon City

## DETAILED ENGINEERING DESIGN

# Upgrading and Modernization of Laboratory Facilities of BSWM-LSD

Laboratory Services Division

A food-secure and resilient Philippines

with empowered and prosperous farmers and fisherfolk



# DETAILED COST ESTIMATE

and

**BILL OF QUANTITIES** 

Visayas Avenue, Diliman Quezon City

Quezon City

PROJECT: Proposed Interior Renovation of BSWM Laboratories

LOCATION: Visayas Avenue, Diliman, Quezon City

DATE: September 27, 2021

#### **PROJECT RECAPITULATION**

A. MOBILIZATION	17,020.39
B. INTERIOR FIT-OUT PROJECT	
1. Server Room	582,281.41
2. Lobby Fit-Out	1,119,757.75
TOTAL DIRECT COST	1,702,039.16
I. Direct Cost + Mobilization	1,719,059.55
II. Indirect Cost	
A. Overhead Miscellaneous (9% of TDC)	154,715.36
B. Contingency (3% of TDC)	51,571.79
C. Contractor's Profit (8% of TDC)	137,524.76
Total Indirect Cost	343,811.91
Total Direct Cost + Total Indirect Cost	2,062,871.46
III. TAXES:	
A. E-VAT (5% of TDC+TID)	103,143.57
APPROVED PROJECT COST (APC)	2,166,015.04

Prepared By:

May

AR FELIMON G GAGALAC Principal Architect Architectural Branch, A&E Div

PROJECT: Proposed Interior Renovation of BSWM Laboratories

Visayas Avenue, Diliman Quezon City

Quezon City

#### PROJECT: Proposed Interior Renovation of BSWM Laboratories (Phase I)

LOCATION: Visayas Avenue, Diliman, Quezon City

DATE: September 27, 2021

#### SUMMARY OF COST ESTIMATES (Server Room)

	1	1		ATES (Server Ro	,			
DESCRIPTION	QTY MATERIAL COST					OR COST	TOTAL	
	# Units	UM	P/Unit	Total	P/Unit	Total		
A. Building Structure:								
(Architectural, Structural, Electrical,								
Sanitary, Plumbing & Mec'l. Work)								
1. Preliminary Works				8,800.00			8,800.00	
2. Restoration Works				6,359.00		3,497.45	9,856.45	
3. Masonry Works				5,592.00		3,075.60	8,667.60	
4. Ceiling Works				11,423.00		6,853.80	18,276.80	
5. Glass and Glazing				148,590.00		52,006.50	200,596.50	
6. Painting Works				4,821.25		3,133.81	7,955.06	
7. Furnitures				27,340.00		12,303.00	39,643.00	
8. Floor Finishes				14,360.00		7,898.00	22,258.00	
9. Mechanical Works				171,760.00		94,468.00	266,228.00	
TOTAL DIRECT COST				399,045.25		183,236.16	582,281.41	
I. Direct Cost	•							
A. Materia	Cost						399,045.25	
B. Labor C	ost						183,236.16	
Total Direct Cost							582,281.41	
II. Indirect Cost								
A. Overhea	ad Miscellar	neous (9	% of TDC)				52,405.33	
	ency (3% o		,				17,468.44	
	tor's Profit	,	DC)				46,582.51	
Total Indirect Cost		-					116,456.28	
Total Direct Cost + T	otal Indired	ct Cost					698,737.70	
III. TAXES:							•	
A. E-VAT	5% of TDC	+TID)					34,936.88	
APPROVED PROJECT COST (APC)								

Prepared By:

May

AR FELIMON G GAGALAC Principal Architect Architectural Branch, A&E Div

Visayas Avenue, Diliman Quezon City

Quezon City

#### PROJECT: Proposed Interior Renovation of BSWM Laboratories (Phase I)

LOCATION: Visayas Avenue, Diliman, Quezon City

DATE: September 27, 2021

#### DETAILED COST ESTIMATE - INTERIOR RENOVATION OF BSWM LABORATORIES (SERVER ROOM)

DESCRIPTION	QTY	ļ,	MATERIAL			BOR COST	TOTAL
	# Units	UM	P/Unit	Total	P/Unit	Total	
I. Preliminary Works							
Survey layout & Chalk line		sq.m.	100.00	2,050.00			2,050.00
Personal Protective equipment (PPE's)	5.00	sets	1,350.00	6,750.00			6,750.00
Total Cost of Preli	minary Wo	rks		8,800.00			8,800.00
II. Restoration Works							
Cement	2.00	bags	240.00	480.00			
Sand	0.25	m³	800.00	200.00			
Casting Plaster Compound (2kgs)	2.00	bags	220.00	440.00			
Plasolux Glazing Putty	1.00	gal	800.00	800.00			
Pallette	1.00	pair	50.00	50.00			
Flat Latex (Primer)	3.00	gal	520.00	1,560.00			
Semigloss Latex (Top Coat)	4.00	gal	556.00	2,224.00			
Tinting Color	1.00	can	35.00	35.00			
Patching Compound	3.00	kgs	20.00	60.00			
Sand Paper	6.00	pcs	12.50	75.00			
Paint Brush	2.00	pcs	55.00	110.00			
Paint Roller	2.00	pcs	95.00	190.00			
Roller Pan	1.00	pcs	85.00	85.00			
Waste Cloth	1.00	kgs	50.00	50.00			
Total Cost of Rest		Ų		6,359.00		3,497.45	9,856.45
III. Masonry Works							
A. 6" thk Masonry Wall	6.40	sq.m.					
6" thk CHB (non load bearing)	80.00	pc	15.00	1,200.00			
Portland cement	6.00	bags	230.00	1,380.00			
Sand	1.00	cu.m.	800.00	800.00			
GI tie wire	1.00	kgs.	70.00	70.00			
10 mmø RSB	4.00	pcs	148.00	592.00			
B. Plastering Works	-	sq.m.	140.00	552.00			
Concrete	5.00	bag	230.00	1,150.00			
Fine Sand	0.50	cu.m.	800.00	400.00			
Total Cost of Mas			000.00	5,592.00		3,075.60	8,667.60
VI. Ceiling Works				3,332.00		3,073.00	0,007.00
A. Gypsum Ceiling	20.50	sq.m.					
Carrying Channel 12mmx38x1.0x5M	5.00	pc	354.00	1,770.00			
Furring Channel (hat type) 19mm x	5.00	pc	554.00	1,770.00			
50mm x 0.60 x 5M	9.00	рс	313.00	2,817.00			
Wall Angle 3M.	9.00	pc pc	126.00	126.00			
Steel angle	2.00	pc pc	284.00	568.00			
W Clip (G.I.)	2.00	<u> </u>	284.00	568.00			
	2.00	pc pc	284.00	568.00			
Rod Joiner Hanger Rod #8	1.00	pc ka	284.00	568.00			
Blind Rivets 1/8x3/8	3.00	kg box	76.00	228.00			
Gypsum board moisture res. 12mm	10.00	box					
Mesh Tape 2" x 230"	1.00	pcs roll	378.00 51.00	3,780.00			
Joint Compound - 28kg/pail		roll	38.00	51.00 38.00			
Gypsum screw #6	1.00	pail					
	2.00	box	265.00	530.00			
Scouring Knife	2.00	рс	50.00	100.00			
Drill bit 1/8"	2.00	рс	63.00	126.00			
Screw bit #2	2.00	рс	51.00	102.00			
Total Cost of Ce				11,423.00		6,853.80	18,276.80

Visayas Avenue, Diliman Quezon City

Quezon City

#### PROJECT: Proposed Interior Renovation of BSWM Laboratories (Phase I)

LOCATION: Visayas Avenue, Diliman, Quezon City

DATE: September 27, 2021

#### DETAILED COST ESTIMATE - INTERIOR RENOVATION OF BSWM LABORATORIES (SERVER ROOM)

DESCRIPTION	QTY		MATERIAL	COST	LA	BOR COST	TOTAL
DESCRIPTION	# Units	UM	P/Unit	Total	P/Unit	Total	TOTAL
V. Glass and Glazing							
12mm thk. Tempered Laminated	23.52	sq.m.	5,200.00	122,304.00		42,806.40	
Glass Partition inc accessories							
12mm thk. Tempered Laminated	2.00	set	13,143.00	26,286.00		9,200.10	
Glass Door including accessories							
Total Cost of Gla	iss & Glazir	ng		148,590.00		52,006.50	200,596.50
VI Painting Works		sq.m.					
A. Ceiling - Gypsum board	6.40	sq.m.					
flat latex (primer)	0.50	gal	520.00	260.00			
semigloss latex (top coat)	1.00	gal	556.00	556.00			
tinting color	0.25	can	35.00	8.75			
patching compound	0.50	kgs	20.00	10.00			
sand paper	2.00	pcs	12.50	25.00			
paint brush	1.00	pcs	55.00	55.00			
Paint Roller	1.00	pcs	94.50	94.50			
Roller Pan	1.00	pcs	85.00	85.00			
Waste Cloth	1.00	kgs	50.00	50.00			
Sub-Total Cost of Paint	ing Works -	Gypsu	m	1,144.25		743.76	1,888.01
B. Wall - Interior masonry	35.00	sq.m.	35.00				
flat latex (primer)	2.00	gal	520.00	1,040.00			
semigloss latex (top coat)	3.00	gal	556.00	1,668.00			
Concrete Neutralizer	2.00	liter	150.00	300.00			
tinting color	1.00	can	35.00	35.00			
patching compound	2.00	kgs	20.00	40.00			
sand paper	6.00	pcs	12.50	75.00			
paint brush	2.00	pcs	55.00	110.00			
Paint Roller	2.00	pcs	94.50	189.00			
Roller Pan	2.00	pcs	85.00	170.00			
Waste Cloth	1.00	kgs	50.00	50.00			
Sub-Total Cost of Paint	ing Works	- Interio	or	3,677.00		2,390.05	6,067.05
VII Furnitures							
Black-core Phenolic Panels	2.00	set	5,454.00	10,908.00			
1500mm x 2020mm							
Black-core Phenolic Panels	8.00	set	810.00	6,480.00			
900mm x 500mm							
Phenolic Panels (500x1600)	2.00	set	1,440.00	2,880.00			
Phenolic Panels (500x2020)	2.00	set	1,818.00	3,636.00			
Phenolic Panels (930x450)	2.00	set	465.00	930.00			
Angle Connector	6.00	pcs	198.00	1,188.00			
Tee Connector	1.00	pcs	198.00	198.00			
LC Leg	4.00	pcs	245.00	980.00			
Screws	35.00	pcs	4.00	140.00			
Total Cost of	1			27,340.00		12,303.00	39,643.00
				,		,	,
	1						
	1						

PROJECT: Proposed Interior Renovation of BSWM Laboratories

Visayas Avenue, Diliman Quezon City

Quezon City

#### PROJECT: Proposed Interior Renovation of BSWM Laboratories (Phase I)

LOCATION: Visayas Avenue, Diliman, Quezon City

DATE: September 27, 2021

#### DETAILED COST ESTIMATE - INTERIOR RENOVATION OF BSWM LABORATORIES (SERVER ROOM)

DETAILED COST ESTI	1					BOR COST	,
DESCRIPTION	QTY # Units	UМ	MATERIAL P/Unit	Total	P/Unit	Total	TOTAL
VIII Floor Finishes	20.50		P/Unit	TOLAI	P/Unit	TOLAI	
A. Epoxy Floor Coating	20.50	sy.m.					
Chemical Resistant Seamless Floor	2.00	gals	1,150.00	2,300.00			
Finish - epoxy base.	2.00	yais	1,150.00	2,300.00			
Epoxy Primer	1.00	gals	750.00	750.00			
Mixing Blade	1.00	<u> </u>	60.00	60.00			
		· ·	25.00	50.00			
Drop Cloth	2.00	pcs					
Brush	1.00	pcs	55.00	55.00			
Squigee	2.00	pcs	40.00	80.00			
B. Elevated Engineered Flooring	00.00		075.00	7 450 00			
100mmx3.0m Engineered Wood	26.00	pcs	275.00	7,150.00			
to include accessories			075.00	0.075.00			
50x75mm tubular steel framing		length	375.00	3,375.00			
tubular clip including conc. Screw	12.00	pcs	45.00	540.00			
Total Cost of Floor F	inishing W	orks		14,360.00		7,898.00	22,258.00
IX. Mechanical Works							
Wall Mounted 2.0 HP Inverter	3.00	units	45,000.00	135,000.00			135,000.00
Condensing Pipe	16.00		1,150.00	18,400.00			18,400.00
Discharge Piping		li.mts.	685.00	10,960.00			10,960.00
Hangers and Supports (for pipes)		li.mts.	235.00	1,880.00			1,880.00
Mechanical Sleeves	3.00	pcs	185.00	555.00			555.00
Mechanical Sealant		tubes	155.00	465.00			465.00
Steel Framing for equipment support	3.00	sets	1,500.00	4,500.00			4,500.00
Total Cost of Mech	nanical Wo	rks		171,760.00		94,468.00	266,228.00
	1					+	
						+	
						├	
						<u>                                     </u>	
						<u>├</u>	
						ļ	
						ļ	

PROJECT: Proposed Interior Renovation of BSWM Laboratories

Visayas Avenue, Diliman Quezon City

Quezon City

#### PROJECT: Proposed Interior Renovation of BSWM Laboratories (Lobby Design)

LOCATION: Visayas Avenue, Diliman, Quezon City

DATE: September 27, 2021

#### SUMMARY OF COST ESTIMATES (Lobby)

	QTY		MATERIAL			BOR COST	
DESCRIPTION	# Units	υм	P/Unit	Total	P/Unit	Total	TOTAL
A. Interior Finishes:	# Units	UIVI	P/Unit	TOLAI	P/Unit	TOLAI	
(Architectural, Electrical, Furnitures)							
1. Preliminary Works				11,770.00			11,770.00
2. Ceiling Works				22,445.00		13,467.00	35,912.00
3. Drywall Works				19,179.00		11,507.40	30,686.40
4. Reception Desk				87,298.00		30,554.30	117,852.30
5. Floor Finishes				25,600.00		8,960.00	34,560.00
6. Painting Works				12,753.00		8,289.45	21,042.45
7. Furnitures				53,245.00		18,635.75	71,880.75
8. Electronics				440,219.00		66,032.85	506,251.85
9. Wall Cladding System				108,175.00		70,313.75	178,488.75
10. Electrical Works				71,815.00		39,498.25	111,313.25
TOTAL DIRECT COST				852,499.00		267,258.75	1,119,757.75
I. Direct Cost							
A. Material	Cost						852,499.00
B. Labor C	ost						267,258.75
Total Direct Cost							1,119,757.75
II. Indirect Cost							
A. Overhea	id Miscellai	neous (	9% of TDC)				100,778.20
B. Continge	ency (3% o	f TDC)					33,592.73
C. Contrac	tor's Profit (	(8% of 1	TDC)				89,580.62
Total Indirect Cost							223,951.55
Total Direct Cost + To	otal Indired	t Cost					1,343,709.30
III. TAXES:							
A. E-VAT (	5% of TDC	+TID)					67,185.47
	APPROVE	D PRO	JECT COST (	APC)			P1,410,894.77

Prepared By:

My

AR FELIMON G GAGALAC Principal Architect Architectural Branch, A&E Div

PROJECT: Proposed Interior Renovation of BSWM Laboratories (Lobby Design)

Visayas Avenue, Diliman Quezon City

Quezon City

#### PROJECT: Proposed Interior Renovation of BSWM Laboratories

LOCATION: Visayas Avenue, Diliman, Quezon City

DATE: September 27, 2021

#### DETAILED COST ESTIMATE - INTERIOR RENOVATION OF BSWM LABORATORIES (LOBBY)

1	1		TION OF BSWM			
QTY						TOTAL
# Units	UM	P/Unit	Iotal	P/Unit	Iotal	
		100.00	0.070.00			0.070.07
						3,670.00
		1,350.00				8,100.00
minary wo	rks		11,770.00			11,770.00
<u> </u>						
-						
10.00	рс	354.00	3,540.00			
		0.10.00				
	<u> </u>					
_	<u> </u>					
	- · -					
-						
-						
_	· ·		,			
_	· ·					
	- · -					
	<u> </u>					
		51.00			40.407.00	
	S		22,445.00		13,467.00	35,912.00
		000.00	6 000 00			
	· ·					
	<u> </u>		-			
_						
-	· ·					
-						
-	<u> </u>					
-						
	<u> </u>					
	<u> </u>					
	· ·	51.00			44 507 40	
ywan work:	5 		19,179.00		11,507.40	30,686.40
1.00		76 000 00	76 000 00			
1.00	assy	10,998.00	/0,998.00			
		5 150 00	10 200 00			
		5,150.00			30 554 20	117,852.30
	, I		67,290.00		50,554.50	117,052.30
4.00	nce	6 400 00	25 600 00			
		0,400.00			8 960 00	24 560 00
	5		23,000.00		0,300.00	34,560.00
+						
	# Units        36.70        iminary Wo        30.00        10.00        10.00        10.00        10.00        10.00        10.00        10.00        10.00        10.00        10.00        10.00        10.00        10.00        10.00        10.00        10.00        10.00        4.00        3.00        3.00        3.00        3.00        3.00        3.00        3.00        3.00        3.00        3.00        3.00        3.00        3.00        5.00        5.00        5.00        5.00        5.00        5.00        5.00        5.00        5.00        5.00        5.00        5.00        5.00        5.00 <tr< td=""><td># Units      UM        36.70      sq.m.        36.70      sq.m.        6.00      sets        iminary Works      -        30.00      sq.m.        10.00      pc        110.00      pc        2.00      pc        4.00      pc        2.00      kg        6.00      box        4.00      pc        2.00      kg        6.00      box        18.00      pcs        3.00      pail        4.00      pc        5.00      pc        5.00      pc        5.00      pc        30.00      pcs        30.00      pcs        30.00      pcs        13.00      pcs        30.00      pcs        5.00      <td< td=""><td># Units      UM      P/Unit        36.70      sq.m.      100.00        6.00      sets      1,350.00        iminary Works      -      -        30.00      sq.m.      -        10.00      pc      354.00        110.00      pc      313.00        6.00      pc      126.00        2.00      pc      284.00        4.00      pc      284.00        4.00      pc      284.00        4.00      pc      284.00        2.00      kg      51.00        6.00      box      76.00        18.00      pcs      390.00        3.00      roll      51.00        3.00      pail      38.00        4.00      pc      50.00        5.00      pc      63.00        5.00      pc      51.00        siling Works      -      -        30.00      pcs      190.00        4.00      pcs      190.00        4.00      pcs      50.0</td><td># Units      UM      P/Unit      Total        36.70      sq.m.      100.00      3,670.00        ininary Works      11,350.00      8,100.00        ininary Works      11,770.00        30.00      sq.m.     </td><td># Units      UM      P/Unit      Total      P/Unit        36.70      sq.m.      100.00      3,670.00        iminary Works      11,350.00      8,100.00        iminary Works      11,770.00        30.00      sq.m.     </td><td># Units      UM      P/Unit      Total      P/Unit      Total        36.70      sq.m.      100.00      3,670.00     </td></td<></td></tr<>	# Units      UM        36.70      sq.m.        36.70      sq.m.        6.00      sets        iminary Works      -        30.00      sq.m.        10.00      pc        110.00      pc        2.00      pc        4.00      pc        2.00      kg        6.00      box        4.00      pc        2.00      kg        6.00      box        18.00      pcs        3.00      pail        4.00      pc        5.00      pc        5.00      pc        5.00      pc        30.00      pcs        30.00      pcs        30.00      pcs        13.00      pcs        30.00      pcs        5.00      pcs        5.00      pcs        5.00      pcs        5.00      pcs        5.00      pcs        5.00      pcs        5.00 <td< td=""><td># Units      UM      P/Unit        36.70      sq.m.      100.00        6.00      sets      1,350.00        iminary Works      -      -        30.00      sq.m.      -        10.00      pc      354.00        110.00      pc      313.00        6.00      pc      126.00        2.00      pc      284.00        4.00      pc      284.00        4.00      pc      284.00        4.00      pc      284.00        2.00      kg      51.00        6.00      box      76.00        18.00      pcs      390.00        3.00      roll      51.00        3.00      pail      38.00        4.00      pc      50.00        5.00      pc      63.00        5.00      pc      51.00        siling Works      -      -        30.00      pcs      190.00        4.00      pcs      190.00        4.00      pcs      50.0</td><td># Units      UM      P/Unit      Total        36.70      sq.m.      100.00      3,670.00        ininary Works      11,350.00      8,100.00        ininary Works      11,770.00        30.00      sq.m.     </td><td># Units      UM      P/Unit      Total      P/Unit        36.70      sq.m.      100.00      3,670.00        iminary Works      11,350.00      8,100.00        iminary Works      11,770.00        30.00      sq.m.     </td><td># Units      UM      P/Unit      Total      P/Unit      Total        36.70      sq.m.      100.00      3,670.00     </td></td<>	# Units      UM      P/Unit        36.70      sq.m.      100.00        6.00      sets      1,350.00        iminary Works      -      -        30.00      sq.m.      -        10.00      pc      354.00        110.00      pc      313.00        6.00      pc      126.00        2.00      pc      284.00        4.00      pc      284.00        4.00      pc      284.00        4.00      pc      284.00        2.00      kg      51.00        6.00      box      76.00        18.00      pcs      390.00        3.00      roll      51.00        3.00      pail      38.00        4.00      pc      50.00        5.00      pc      63.00        5.00      pc      51.00        siling Works      -      -        30.00      pcs      190.00        4.00      pcs      190.00        4.00      pcs      50.0	# Units      UM      P/Unit      Total        36.70      sq.m.      100.00      3,670.00        ininary Works      11,350.00      8,100.00        ininary Works      11,770.00        30.00      sq.m.	# Units      UM      P/Unit      Total      P/Unit        36.70      sq.m.      100.00      3,670.00        iminary Works      11,350.00      8,100.00        iminary Works      11,770.00        30.00      sq.m.	# Units      UM      P/Unit      Total      P/Unit      Total        36.70      sq.m.      100.00      3,670.00

Visayas Avenue, Diliman Quezon City

Quezon City

#### PROJECT: Proposed Interior Renovation of BSWM Laboratories

LOCATION: Visayas Avenue, Diliman, Quezon City

DATE: September 27, 2021

#### DETAILED COST ESTIMATE - INTERIOR RENOVATION OF BSWM LABORATORIES (LOBBY)

QTY # Units 30.00 3.00 2.00 2.00 12.00 2.00 2.00 2.00 2.00 <b>Works -</b> 55.00 4.00 6.00 4.00 2.00	UM sq.m. gal can kgs pcs pcs pcs pcs kgs <b>Gypsu</b> sq.m. gal	MATERIAL P/Unit 520.00 556.00 35.00 20.00 12.50 55.00 94.50 85.00 50.00 m 35.00 520.00	COST Total 1,560.00 2,780.00 70.00 60.00 150.00 220.00 189.00 170.00 100.00 <b>5,299.00</b>	LAB P/Unit	OR COST Total	TOTAL
30.00 3.00 2.00 3.00 12.00 4.00 2.00 2.00 2.00 <b>Works -</b> 55.00 4.00 6.00 4.00	sq.m. gal can kgs pcs pcs pcs kgs <b>Gypsu</b> sq.m. gal	520.00 556.00 35.00 20.00 12.50 55.00 94.50 85.00 50.00 <b>m</b> 35.00	1,560.00 2,780.00 70.00 60.00 150.00 220.00 189.00 170.00 100.00	P/Unit		
3.00 5.00 2.00 3.00 4.00 2.00 2.00 2.00 <b>Works -</b> 55.00 4.00 6.00 4.00	gal gal can kgs pcs pcs pcs kgs <b>Gypsu</b> sq.m. gal	556.00 35.00 20.00 12.50 55.00 94.50 85.00 50.00 <b>m</b> 35.00	2,780.00 70.00 60.00 150.00 220.00 189.00 170.00 100.00		3,444.35	8,743.33
3.00 5.00 2.00 3.00 4.00 2.00 2.00 2.00 <b>Works -</b> 55.00 4.00 6.00 4.00	gal gal can kgs pcs pcs pcs kgs <b>Gypsu</b> sq.m. gal	556.00 35.00 20.00 12.50 55.00 94.50 85.00 50.00 <b>m</b> 35.00	2,780.00 70.00 60.00 150.00 220.00 189.00 170.00 100.00		3,444.35	8.743 3
5.00 2.00 3.00 12.00 2.00 2.00 2.00 <b>Works -</b> 55.00 4.00 6.00	gal can kgs pcs pcs pcs kgs <b>Gypsu</b> sq.m. gal	556.00 35.00 20.00 12.50 55.00 94.50 85.00 50.00 <b>m</b> 35.00	2,780.00 70.00 60.00 150.00 220.00 189.00 170.00 100.00		3,444.35	8,743.34
2.00 3.00 12.00 2.00 2.00 2.00 <b>Works -</b> 55.00 4.00 6.00 4.00	can kgs pcs pcs pcs kgs <b>Gypsu</b> sq.m. gal	35.00 20.00 12.50 55.00 94.50 85.00 50.00 <b>m</b> 35.00	70.00 60.00 150.00 220.00 189.00 170.00 100.00		3,444.35	8,743.34
3.00 12.00 2.00 2.00 2.00 <b>Works -</b> 55.00 4.00 6.00 4.00	kgs pcs pcs pcs kgs <b>Gypsu</b> sq.m. gal	20.00 12.50 55.00 94.50 85.00 50.00 <b>m</b> 35.00	60.00 150.00 220.00 189.00 170.00 100.00		3,444.35	8.743 3
12.00 4.00 2.00 2.00 <b>Works -</b> 55.00 4.00 6.00 4.00	pcs pcs pcs kgs <b>Gypsu</b> sq.m. gal	12.50 55.00 94.50 85.00 50.00 <b>m</b> 35.00	150.00 220.00 189.00 170.00 100.00		3,444.35	8.743.3
4.00 2.00 2.00 <b>Works -</b> 55.00 4.00 6.00 4.00	pcs pcs pcs kgs <b>Gypsu</b> sq.m. gal	55.00 94.50 85.00 50.00 <b>m</b> 35.00	220.00 189.00 170.00 100.00		3,444.35	8.743.3
2.00 2.00 2.00 <b>Works -</b> 55.00 4.00 6.00 4.00	pcs pcs kgs <b>Gypsu</b> sq.m. gal	94.50 85.00 50.00 m 35.00	189.00 170.00 100.00		3,444.35	8,743,3
2.00 2.00 Works - 55.00 4.00 6.00 4.00	pcs kgs <b>Gypsu</b> sq.m. gal	85.00 50.00 m 35.00	170.00 100.00		3,444.35	8,743,3
2.00 Works - 55.00 4.00 6.00 4.00	kgs <b>Gypsu</b> sq.m. gal	50.00 m 35.00	100.00		3,444.35	8.743.3
Works - 55.00 4.00 6.00 4.00	<b>Gypsu</b> sq.m. gal	m 35.00			3,444.35	8.743.3
55.00 4.00 6.00 4.00	sq.m. gal	35.00	5,299.00		3,444.35	8.743.3
4.00 6.00 4.00	gal			1		-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
6.00 4.00	l v l	520.00				
4.00	gal	-	2,080.00			
		556.00	3,336.00			
2 00	liter	150.00	600.00			
2.00	can	35.00	70.00			
4.00		20.00	80.00			
	· · ·					
	· ·					
	<u> </u>					
Works -	- Interio	or	7,454.00		4,845.10	12,299.10
		,	,			
		,				
	set	1,109.00			40.005.75	=1 000 =
niture			53,245.00		18,635.75	71,880.7
1.00	set	399,000.00	399,000.00			
1 00		06 470 00	06 470 00			
			,			
		· · · · ·				-
		1,00.00			66 022 05	E00 054 0
s ⊑quip			440,219.00		00,032.80	506,251.8
1 00	a.:+	45.000.00	45 000 00			
15.25	sq.m.	3,100.00	47,275.00			
10.00		1 500 00	15 000 00			
		1,500.00			70 242 75	470 400 7
ung Sys	stem		108,175.00		10,313.15	178,488.75
	16.00 4.00 4.00 3.00 Works - 1.00 1.00 1.00 2.00 niture 1.00 1.00 2.00 s Equip 1.00 1.00 1.00 1.00 1.00 1.00 1.00	16.00    pcs      4.00    pcs      4.00    pcs      4.00    pcs      3.00    kgs      Works - Interior      1.00    set      1.00    set	16.00      pcs      12.50        4.00      pcs      55.00        4.00      pcs      94.50        4.00      pcs      85.00        3.00      kgs      50.00        Works - Interior	16.00      pcs      12.50      200.00        4.00      pcs      55.00      220.00        4.00      pcs      94.50      378.00        4.00      pcs      85.00      340.00        3.00      kgs      50.00      150.00        Works - Interior      7,454.00        1.00      set      34,041.00      34,041.00        1.00      set      2,425.00      2,425.00        1.00      set      2,950.00      2,950.00        1.00      set      7,000.00      7,000.00        1.00      set      7,000.00      7,000.00        1.00      set      7,000.00      399,000.00        2.00      set      399,000.00      399,000.00        1.00      set      2,750.00      2,750.00        1.00      set      2,750.00      2,750.00        1.00      set      7,680.00      15,360.00        1.00      set      440,219.00      1        1.00      set      45,000.00      45,000.00        15,25      s	16.00      pcs      12.50      200.00        4.00      pcs      55.00      220.00        4.00      pcs      94.50      378.00        4.00      pcs      85.00      340.00        3.00      kgs      50.00      150.00        Works - Interior      7,454.00      7        1.00      set      34,041.00      34,041.00        1.00      set      2,425.00      2,425.00        1.00      set      2,425.00      2,950.00        1.00      set      7,000.00      7,000.00        1.00      set      7,000.00      7,000.00        1.00      set      7,000.00      7,000.00        1.00      set      399,000.00      399,000.00        1.00      set      399,000.00      399,000.00        1.00      set      2,750.00      2,750.00        1.00      set      2,750.00      2,750.00        1.00      set      7,680.00      15,360.00        1.00      set      7,680.00      15,360.00 <td< td=""><td>16.00    pcs    12.50    200.00   </td></td<>	16.00    pcs    12.50    200.00

Visayas Avenue, Diliman Quezon City

Quezon City

#### PROJECT: Proposed Interior Renovation of BSWM Laboratories

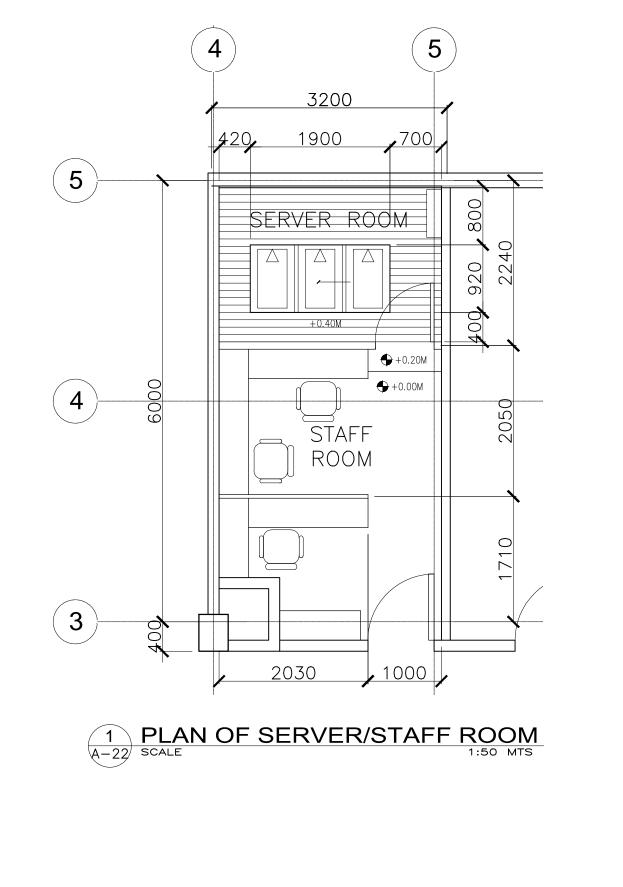
LOCATION: Visayas Avenue, Diliman, Quezon City

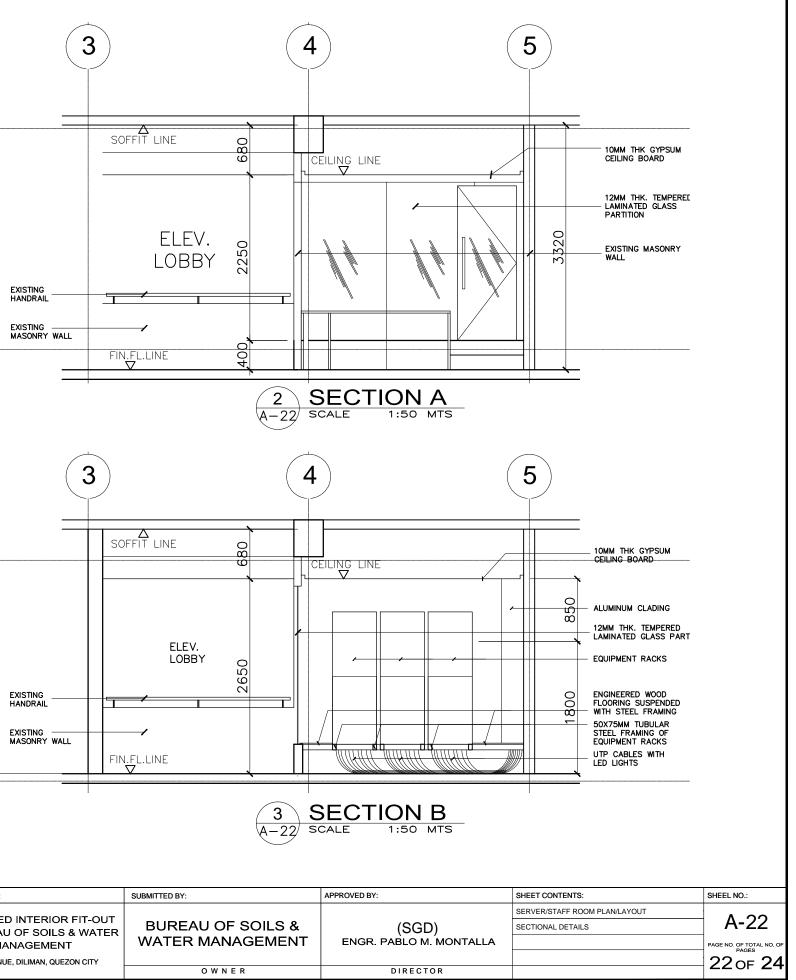
DATE: September 27, 2021

#### DETAILED COST ESTIMATE - INTERIOR RENOVATION OF BSWM LABORATORIES (LOBBY)

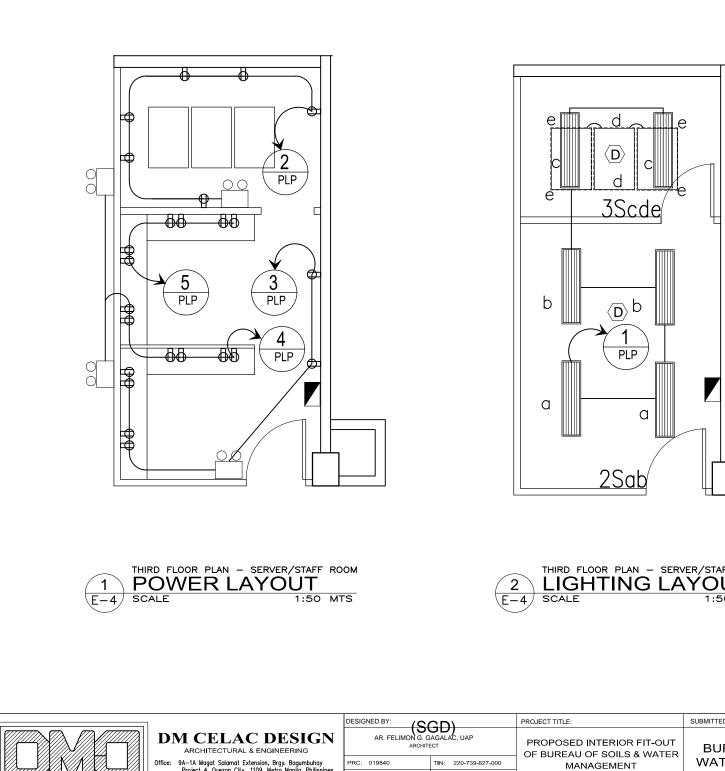
STIMATE			TION OF BSWM			
QTY			1			TOTAL
# Units	UM	P/Unit	Total	P/Unit	Total	
-						
-	pcs					
6.00	pcs	1,200.00	7,200.00			
16.00	mts	980.00	15,680.00			
6.00	set	250.00	1,500.00			
2.00	set	250.00	500.00			
2.00	set	70.00	140.00			
6.00	set	75.00	450.00			
2.00	set	170.00	340.00			
4.00	set	230.00	920.00			
1.00	roll	3,600.00	3,600.00			
2.00	roll	4,800.00	9,600.00			
1.00	roll	5,550.00	5,550.00			
		-,	-,			
45.00	pcs	120.00	5.400.00			
1	· ·		,			
-						
	· ·					
	· ·					
30.00	10115	35.00	1,030.00			
1.00	cot	0.450.00	0.450.00			
1.00	sei	9,450.00	9,450.00			
atrical Mari			71.015.00		20,400,25	111 212 25
	ks I		/1,815.00		39,498.25	111,313.25
	QTY # Units 4.00 6.00 16.00 2.00 2.00 2.00 2.00 4.00 2.00 4.00 4	QTY        # Units      UM        # Units      UM        4.00      pcs        6.00      pcs        16.00      mts        2.00      set        1.00      roll        1.00      roll        1.00      roll        4.00      set        3.00      pcs        18.00      pcs        14.00      pcs        3.00      kgs        30.00      rolls	QTY      MATERIAL        # Units      UM      P/Unit        # Units      UM      P/Unit        4.00      pcs      2,250.00        6.00      pcs      1,200.00        1	QTY      MATERIAL COST        # Units      UM      P/Unit      Total        4.00      pcs      2,250.00      9,000.00        6.00      pcs      1,200.00      7,200.00        16.00      mts      980.00      15,680.00        2.00      set      250.00      500.00        2.00      set      250.00      1,500.00        2.00      set      250.00      100.00        2.00      set      70.00      140.00        6.00      set      75.00      450.00        2.00      set      75.00      340.00        2.00      set      75.00      920.00        4.00      set      230.00      920.00        4.00      set      230.00      3,600.00        2.00      roll      4,800.00      9,600.00        1.00      roll      5,550.00      5,550.00        1.00      roll      5,550.00      5,400.00        18.00      pcs      35.00      285.00        30.00      rolls      35.00 <td>QTY      MATERIAL COST      LA        # Units      UM      P/Unit      Total      P/Unit        4.00      pcs      2,250.00      9,000.00      1        4.00      pcs      2,250.00      9,000.00      1        16.00      pcs      1,200.00      7,200.00      1        16.00      mts      980.00      15,680.00      1        6.00      set      250.00      1,500.00      1        2.00      set      250.00      500.00      1        2.00      set      70.00      140.00      140.00        2.00      set      75.00      450.00      1        2.00      set      170.00      340.00      1        4.00      set      230.00      920.00      1        1.00      roll      3,600.00      3,600.00      1        1.00      roll      4,800.00      9,600.00      1        1.00      roll      4,800.00      3,600.00      1        1.00      pcs      35.00      210.00</td> <td># Units      UM      P/Unit      Total      P/Unit      Total        4.00      pcs      2,250.00      9,000.00     </td>	QTY      MATERIAL COST      LA        # Units      UM      P/Unit      Total      P/Unit        4.00      pcs      2,250.00      9,000.00      1        4.00      pcs      2,250.00      9,000.00      1        16.00      pcs      1,200.00      7,200.00      1        16.00      mts      980.00      15,680.00      1        6.00      set      250.00      1,500.00      1        2.00      set      250.00      500.00      1        2.00      set      70.00      140.00      140.00        2.00      set      75.00      450.00      1        2.00      set      170.00      340.00      1        4.00      set      230.00      920.00      1        1.00      roll      3,600.00      3,600.00      1        1.00      roll      4,800.00      9,600.00      1        1.00      roll      4,800.00      3,600.00      1        1.00      pcs      35.00      210.00	# Units      UM      P/Unit      Total      P/Unit      Total        4.00      pcs      2,250.00      9,000.00

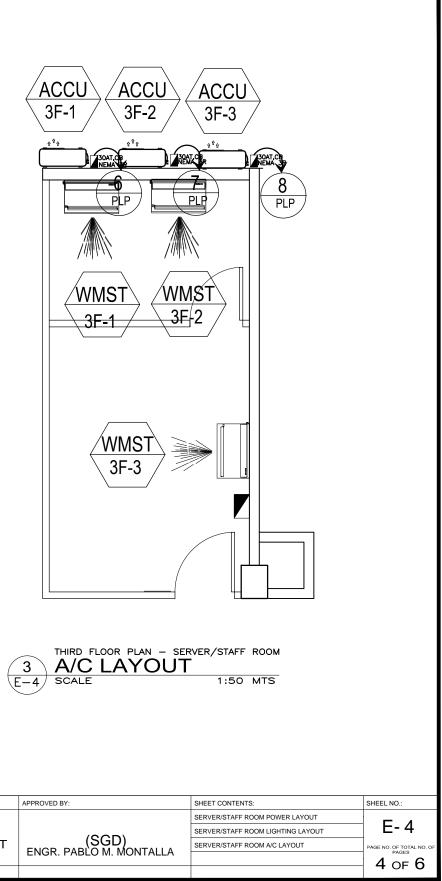
PLANS AND WORKING DRAWINGS





	DESIGNED BY: (S	GD)	PROJECT TITLE:	SUBMITTED BY:	APPROVED BY:
DM CELAC DESIGN ARCHITECTURAL & ENGINEERING Office: 9A-1A Magat Salamat Extension, Brgy. Bagumbuhay Project 4, Quezon City 1109, Metro Manila, Philippine: Contact No. (+632) 945-0460 (+632) 975-3975	AR. FELIMON G. ARCHI PRC: 019840	GAGALAC, UAP	PROPOSED INTERIOR FIT-OUT OF BUREAU OF SOILS & WATER MANAGEMENT VISAYAS AVENUE, DILIMAN, QUEZON CITY	BUREAU OF SOILS & WATER MANAGEMENT	(SGD) ENGR. PABLO M. MONTALLA
	CADD BY: FGG	DATE: 06.16.2020		OWNER	DIRECTOR







			GD)	PROJECT TITLE:	SUBMITTED BY:	APPROVED BY:	SHEET C
DM CELA ARCHITECTURAI Office: 9A-1A Magat Salamat	OM CELAC DESIGN	AR. FELIMON G. G.		PROPOSED INTERIOR FIT-OUT			SERVER
	ARCHITECTURAL & ENGINEERING Office: 9A-1A Magat Salamat Extension, Brgy. Bagumbuhay	ARCHITECT		OF BUREAU OF SOILS & WATER	BUREAU OF SOILS &	(000)	SERVER
Office		PRC: 019840	TIN: 220-739-827-000	MANAGEMENT	WATER MANAGEMENT	(SGD) ENGR. PABLO M. MONTALLA	SERVER
	Project 4, Quezon City 1109, Metro Manila, Philippines Contact No. (+632) 745-0460 (+632) 975-3975		01.21.2020/MURPHY, Q.C.	VISAYAS AVENUE, DILIMAN, QUEZON CITY		ENGR. FABLO M. MONTALLA	
		CADD BY: FGG	DATE: 06.16.2020		OWNER		





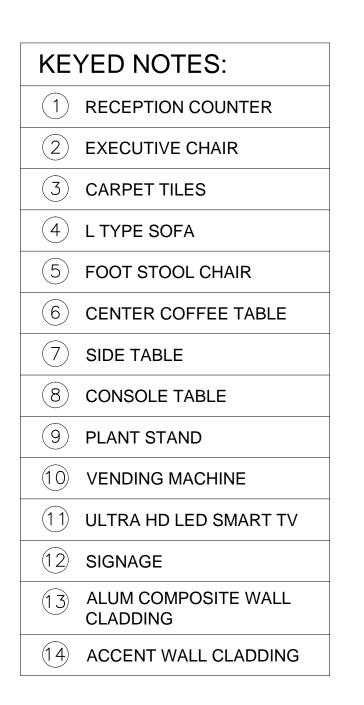


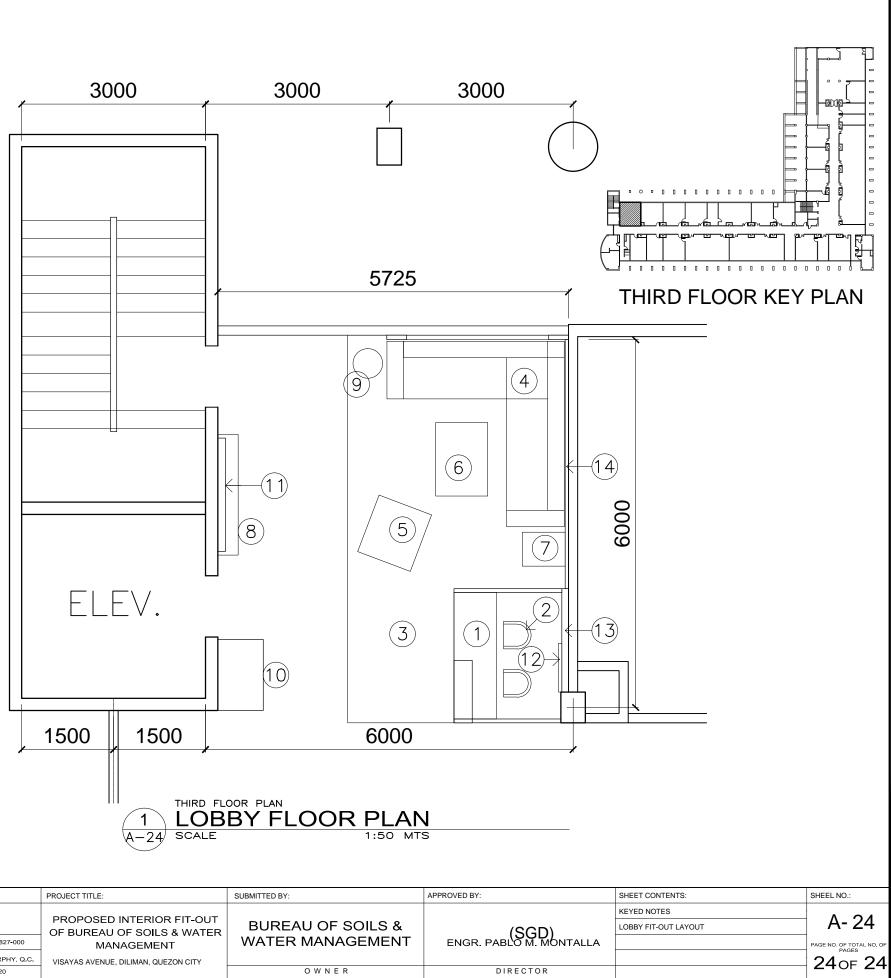




		DESIGNED BY:		PROJECT TITLE:	SUBMITTED BY:	APPROVED BY:
ARCHITECTURAL & ENGINEERING	AR. FELIMON G. GAGALAC, UAP ARCHITECT PRC: 019840 TIN: 220-739-827-000		PROPOSED INTERIOR FIT-OUT OF BUREAU OF SOILS & WATER	BUREAU OF SOILS & WATER MANAGEMENT	ENGR. PABLOM. MONT	
	Office: 9A-1A Magat Salamat Extension, Brgy. Bagumbuhay Project 4, Quezon City 1109, Metro Manila, Philippines	PRC: 019840 PTR: 9892695	TIN: 220-739-827-000 DATE/PLACE ISSUED: 01.21.2020/MURPHY, Q.C.	MANAGEMENT	WATER MANAGEMENT	ENGR. PABEO'M. MONT
Contact No. (+632) 745-0460 (+632) 975-3975	CADD BY: FGG	DATE: 06.16.2020	VISAYAS AVENUE, DILIMAN, QUEZON CITY	O W N E R	DIRECTOR	

	SHEET CONTENTS:	SHEEL NO .:
	LOBBY FIT-OUT PERSPECTIVE	A 00
		A- 23
NTALLA		PAGE NO. OF TOTAL NO.
		23 OF 24





	]	DESIGNED BY:	(SGD)	PROJECT TITLE:	SUBMITTED BY:	APPROVED BY:
	DM CELAC DESIGN ARCHITECTURAL & ENGINEERING		N G. GAGALAC, UAP ARCHITECT	PROPOSED INTERIOR FIT-OUT OF BUREAU OF SOILS & WATER	BUREAU OF SOILS &	(SGD)
		PRC: 019840	TIN: 220-739-827-000	MANAGEMENT	WATER MANAGEMENT	(SGD) ENGR. PABLO M. MONTAL
	Contact No. (+632) 745–0460 (+632) 975–3975	PTR: 9892695	01.21.2020/MURPHY, Q.C.	VISAYAS AVENUE, DILIMAN, QUEZON CITY		
	]	CADD BY: FGG	DATE: 06.16.2020		O W N E R	DIRECTOR

### SCOPE OF WORKS

Visayas Avenue, Diliman Quezon City

Quezon City

#### **PROJECT: Proposed Interior Renovation of BSWM Laboratories**

LOCATION: Visayas Avenue, Diliman, Quezon City

DATE: August 9, 2020

#### SCOPE OF WORK

#### I. SERVER/STAFF ROOM

#### A. Preliminary Works

- 1. Site Acquisition and Clearing.
- 2. Provision for Survey layout & Chalk line
- 3. Personal Protective equipment (PPE's)

#### B. Construction / Installation of Masonry walls and Glass Partition (glazing)

- 1. Preparation of concreting works for masonry walls.
- 2. Laying and Plastering of 6" CHB masonry walls.
- 3. Supply and installation of glass partition and glass door with frames and accessories.

#### C. Installation of Ceiling and Frames

- 1. Supply and assembly of ceiling framing prior to gypsum board installation.
- 2. Supply and installation of gypsum board ceiling panels.

#### **D. Restoration Works**

- 1. Restoration of all existing walls and ceiling affected by demolision works and chipping of floor finish.
- 2. Restoration of existing steel railing at corridor.
- 3. Restoration of flooring affected by instalation of glass partition.

#### **E. Painting Works**

- 1. Application of concrete Neutralizer for the newly plastered masonry walls.
- 2. Painting preparation application of putty compound prior to painting application.
- 3. Application of base coating primer, finishing paint first coating and second coating. resin wall coating - durable seamless finish fast curing water-based epoxy.

#### F. Furnitures

- Supply and installation of modular desk at staff office room to include accessories.
  2 sets of cubicle w/ 2 side tables high density laminated panels.
- 2. Installation of floor door locks at server room and staff room.
- 3. Installation of office divider and wall wood type cabinet with lock.

#### G. Floor Finishes

- 1. Concrete floor repair touch up works prior to application of chemical resistant seamless flooring.
- 2. Application of chemical resistant seamless floor finish epoxy base.
- 3. Instalation of floor frame and elevated engineered wood flooring to include accessories at server room.

#### **H. Electrical Works**

- 1. Provision of electrical power supply requirements.
- 2. Supply and Instalation of all lighting requirements fixtures and roughing-ins.
- 3. Installation of fire security alarm in the server room.
- 4. Installation of emergency light (2) in front of elevator hallway.
- 5. Installation of separate electrical circuit breaker for server room.
- 6. Installation of LED lighting strip under the raised access flooring system.
- 7. Testing and commissioning procedures.

#### I. Electro-communication and Equipments

(See Structured Cabling Scope of Works)

Prepared By:

(SGD)

AR FELIMON G GAGALAC PRINCIPAL ARCHITECT D.M. CELAC ARCHITECTURAL & ENGINEERING

Visayas Avenue, Diliman Quezon City

#### Quezon City

#### PROJECT: Proposed Interior Renovation of BSWM Laboratories (Phase II)

LOCATION: Visayas Avenue, Diliman, Quezon City

DATE: August 18, 2021

#### SCOPE OF WORKS

#### I. LOBBY FIT-OUT

#### A. Preliminary Works

- 1. Site Acquisition and Clearing.
- 2. Provision for Survey layout & Chalk line
- 3. Personal Protective equipment (PPE's)

#### **B. Installation of Ceiling and Frames**

- 1. Supply and assembly of ceiling framing prior to gypsum board installation.
- 2. Supply and installation of gypsum board ceiling panels.

#### C. Restoration Works

- 1. Restoration of all existing walls and ceiling affected by installation work.
- 2. Restoration of flooring affected by instalation of accent wall partition, equipments and furnitures.

#### **D. Floor Finishes**

1. Installation of carpet Tiles.

#### E. Furnitures

- 1. Supply and installation of modular counter/desk to include executive chairs and accessories.
- 2. Supply of Sofa chairs, Center, side and console tables, including plant stands.

#### F. Painting Works

- 1. Application of concrete Neutralizer for the newly plastered masonry walls.
- 2. Painting preparation application of putty compound prior to painting application for walls and ceilings.
- 3. Application of base coating primer, finishing paint first coating and second coating. resin wall coating - durable seamless finish fast curing water-based epoxy.

#### G. Electronics and Equipments

- 1. Supply of Vending Machine (Drop Style:20 Snacks 9 Drink Rack)
- 2. Supply of Ultra HD LED Smart TV 43" with TV racks, accessories and sound system.
- 3. Supply of ceiling fan.

#### H. Wall Cladding System

- 1. Supply and Installation of Aluminum wall Composite Panel PVDF 4mm thk
- 2. Supply and installation of Accent Wall Clading to include the Signages.

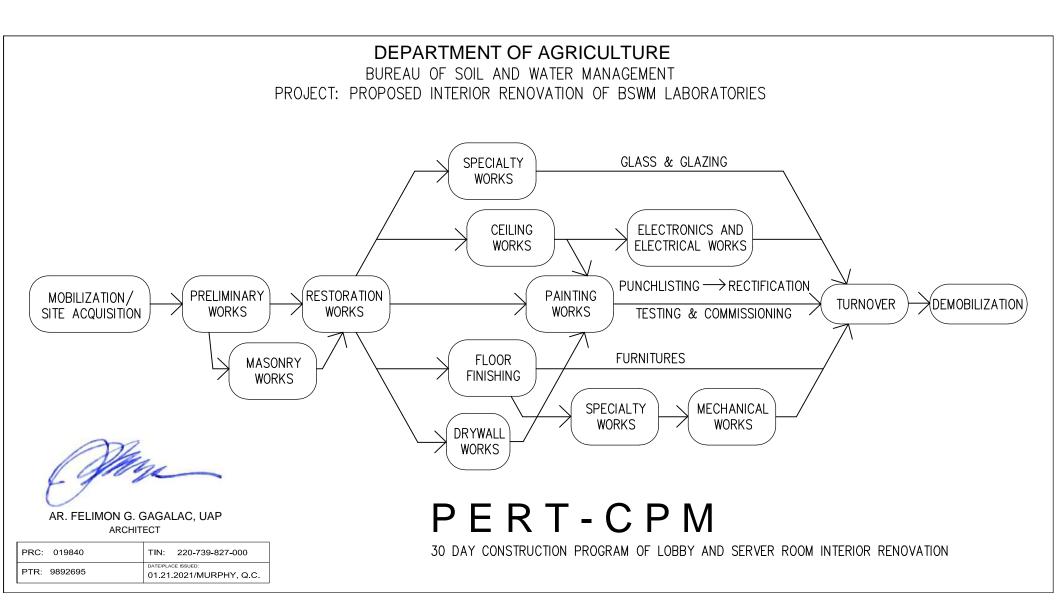
#### I. Electrical Works

- 1. Provision of electrical power supply requirements.
- 2. Supply and Instalation of all lighting requirements fixtures and roughing-ins.
- 3. Testing and commissioning procedures.

Prepared By:

(SGD)

AR FELIMON G GAGALAC PRINCIPAL ARCHITECT D.M. CELAC ARCHITECTURAL & ENGINEERING



Visayas Avenue, Diliman Quezon City

Quezon City

#### PROJECT: Proposed Interior Renovation of BSWM Laboratories

LOCATION: Visayas Avenue, Diliman, Quezon City

#### GANTT CHART / BAR CHART (30 DAY CONSTRUCTION ACTIVITY)

DESCRIPTION -		Week 1							Week 2								Week 3								Week 4								Week 5						
		2	3	4	5	6	7	8	9	10	11	12	13	3 14	1 15	5 16	5 1 <sup>-</sup>	7 1	8 1	9 2	2	12	2 2	3 2	4	25	26	27	28	29	30	31	32	33	34	35			
A. Building Structure:																																							
(Architectural, Electro Comm &																																							
Mechanical Work)																																							
1. Preliminary Works																																							
2. Restoration Works																																							
3. Masonry Works																																							
4. Ceiling Works																																							
5. Drywall Works																																							
6. Glass and Glazing																																							
7. Floor Finishes																																							
8. Painting Works																																							
9. Specialty Works																																							
10. Furnitures																																							
11. Wall Cladding System																																							
12. Electronics																																							
13. Electrical Works																																							
14. Mechanical Works																								T															
15. Testing and Commissioning																																							
16. Turn-over																																							

•

Prepared By:

AR FELIMON G GAGALAC Principal Architect Architectural Branch, A&E Div