

PROGRAM OF WORKS

DETAILED COST ESTIMATE
 (TOTAL CONSTRUCTION COST/ ABC)
 REPAIR 2024 - RXI - DAVAO ORIENTAL

PROJECT : REPAIR OF 1 UNIT 1STRY-2CL MARCOS PREFAB, 1 UNIT 1STRY-1CL DEPED MODIFIED AND 1 UNIT 1STRY-3CL DEPED STANDARD - OSMEÑA ES
 SCHOOL : OSMEÑA ELEMENTARY SCHOOL
 LOCATION : Governor Generoso, Davao Oriental
 OWNER : DEPARTMENT OF EDUCATION

CONTRACT DURATION : 120 CD

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT (5%)	TOTAL INDIRECT COST	ADJUSTED TOTAL COST	ADJUSTED UNIT COST
					OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8) (6) + (7)	(9) (5) x (8)	(10) 5% [(5) + (9)]	(11) (9) + (10)	(12) (5) + (11)	(13) (12) / (3)
BLDG. 1 - 1 UNIT 2CL MARCOS PREFAB												
A.	Facilities for the Engineer											
A.1	Temporary Facilities	4.00	Month									
B.	Other General Requirements											
SPL 1	Project Billboard	1.00	Each									
SPL 2	Construction Safety and Health	1.00	Ls									
C.	Mobilization and Demobilization											
C.1	Mobilization and Demobilization	1.00	Ls									
1.0000	Earthworks											
1 (a)	Clearing and Grubbing	24.00	sq.m									
1 (b)	Structural Excavation	17.44	cu m									
1 (d)	Gravel Bedding G-1	1.26	cu m									
1 (e)	Embankment	1.80	cu m									
2.0000	Concreting Works (3000 psi)											
2 (b)	Structural Concrete (Footing and Slab on Fill)	3.96	cu m									
2 (c)	Structural Concrete (Footing Tie Beam, Column, Suspended Slab, Girder/ Beam)	0.47	cu m									
3.0000	Rebar Works											
3 (a)	Reinforcing Steel Bar, Grade 40	431.95	kg									
4.0000	Formworks											
4 (a)	Installation and Removal of Formworks	28.05	sq.m									
5.0000	Masonry Works											
5 (a)	Demolition of Masonry Wall	60.00	sq m									
5 (b)	Masonry (100 mm CHB)	102.16	sq.m									
5 (d)	Plain Cement Plaster Finish	204.32	sq.m									
6.0000	Fabricated Materials and Hardware											
6 (a)	Removal of Door with Jamb	2.00	set									
6 (c)	Hollow Core Flush Door	3.36	sq m									
6 (d)	Wooden Panel Door	4.20	sq m									
6 (e)	Jalousie Window (Glass)	13.72	sq m									
6 (f)	Frames (Jambs, Sill, Head, Transoms, and Mullions)	14.00	set									
6 (h)	Security Grilles	1.00	ls									
7.0000	Steel Works											
7 (c)	Structural Steel Roof Truss	109.79	kg									
7 (d)	Structural Steel Purlins	110.17	kg									
8.0000	Roofing Works											
8 (a)	Removal of Metal Roofing	134.40	sq m									
8 (b)	Pre - painted Metal Sheets (Corrugated, Short Span/ Long Span, below 0.427 BMT/ above 0.427 BMT)	123.00	lm									
8 (e)	Fabricated Metal Roofing Accessory (Ridge/ Hip Rolls/ Flashing/ Counter Flashing/ Valley Roll)	38.90	m									
9.0000	Ceiling and Carpentry Works											
9 (c)	Removal of Partition	21.00	sq m									
9 (d)	Removal of Ceiling	84.00	sq m									
9 (e)	4.5mm Fiber Cement Board/ 4.5mm Marine Plywood/ 6.0mm Marine Plywood/ 6.0 mm Ordinary Plywood in Wood Frame Ceiling	134.40	sq.m									
9 (i)	Blackboard	11.52	sq.m									
10.0000	Electrical Works											
10 (a)	Conduit, Boxes and Fitting	1.00	Ls									
10 (b)	Wires and Wiring Devices	1.00	Ls									
10 (c)	Lighting Fixture/ Fixture	1.00	Ls									
10 (d)	Panel Board and Cabinets	1.00	Ls									
10 (e)	Ventilating Equipment	1.00	Ls									
11.0000	Plumbing Works											
11 (a)	Waterline Works	1.00	Ls									
12.0000	Sanitary Works											
12 (a)	Sewer Line Works	1.00	Ls									
12 (b)	Sanitary/ Plumbing Fixtures	1.00	Ls									
12 (c)	Three Chamber Septic Vault	1.00	Ls									
13.0000	Painting Works											
13 (a)	Masonry Painting	342.24	sq.m									

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT (5%)	TOTAL INDIRECT COST	ADJUSTED TOTAL COST	ADJUSTED UNIT COST
					OCM	PROFIT	%	VALUE				
13 (b)	Wooden Painting	138.00	sq.m									
13 (c)	Metal Painting	39.00	sq.m									
14.0000	Tile Works											
14 (a)	Glazed Tiles and Trims	10.80	sq.m									
14 (b)	Unglazed Tiles/ Granite Tiles/ Synthetic Granite Tiles	3.60	sq.m									
BLDG. 2 - 1 UNIT 3CL BLSB II												
1.0000	Earthworks											
1 (a)	Clearing and Grubbing	36.00	sq.m									
1 (b)	Structural Excavation	18.72	cu m									
1 (d)	Gravel Bedding G-1	1.00	cu m									
2.0000	Concreting Works (3000 psi)											
2 (b)	Structural Concrete (Footing and Slab on Fill)	0.83	cu m									
2 (c)	Structural Concrete (Footing Tie Beam, Column, Suspended Slab, Girder/ Beam)	2.46	cu m									
3.0000	Rebar Works											
3 (a)	Reinforcing Steel Bar, Grade 40	318.26	kg									
4.0000	Formworks											
4 (a)	Installation and Removal of Formworks	7.44	sq.m									
5.0000	Masonry Works											
5 (a)	Demolition of Masonry Wall	6.00	sq m									
5 (b)	Masonry (100 mm CHB)	38.55	sq.m									
5 (d)	Plain Cement Plaster Finish	77.10	sq.m									
6.0000	Fabricated Materials and Hardware											
6 (a)	Removal of Door with Jamb	6.00	set									
6 (b)	Removal of Window with Jamb	6.00	set									
6 (c)	Hollow Core Flush Door	5.04	sq m									
6 (d)	Wooden Panel Door	6.30	sq m									
6 (e)	Jalousie Window (Glass)	20.58	sq m									
6 (f)	Frames (Jambs, Sill, Head, Transoms, and Mullions)	21.00	set									
6 (h)	Security Grilles	1.00	ls									
8.0000	Roofing Works											
8 (a)	Removal of Metal Roofing	242.88	sq m									
8 (b)	Pre - painted Metal Sheets (Corrugated, Short Span/ Long Span, below 0.427 BMT/ above 0.427 BMT)	221.00	lm									
8 (e)	Fabricated Metal Roofing Accessory (Ridge/ Hip Rolls/ Flashing/ Counter Flashing/ Valley Roll)	44.80	m									
9.0000	Ceiling and Carpentry Works											
9 (c)	Removal of Partition	42.00	sq m									
9 (d)	Removal of Ceiling	209.76	sq m									
9 (e)	4.5mm Fiber Cement Board/ 4.5mm Marine Plywood/ 6.0mm Marine Plywood/ 6.0 mm Ordinary Plywood in Wood Frame Ceiling	204.48	sq.m									
9 (h)	4.5 mm/ 6.0 mm thk 4' x 8' Fiber Cement Board/ Marine Plywood/ 6.0 mm thk 4' x 8' Ordinary Plywood on Metal Frame Double Partition	158.80	sq.m									
9 (j)	Blackboard	17.28	sq.m									
10.0000	Electrical Works											
10 (a)	Conduit, Boxes and Fitting	1.00	Ls									
10 (b)	Wires and Wiring Devices	1.00	Ls									
10 (c)	Lighting Fixture/ Fixture	1.00	Ls									
10 (d)	Panel Board and Cabinets	1.00	Ls									
10 (e)	Ventilating Equipment	1.00	Ls									
11.0000	Plumbing Works											
11 (a)	Waterline Works	1.00	Ls									
12.0000	Sanitary Works											
12 (a)	Sewer Line Works	1.00	Ls									
12 (b)	Sanitary/ Plumbing Fixtures	1.00	Ls									
12 (c)	Three Chamber Septic Vault	1.00	Ls									
13.0000	Painting Works											
13 (a)	Masonry Painting	169.10	sq.m									
13 (b)	Wooden Painting	446.60	sq.m									
14.0000	Tile Works											
14 (a)	Glazed Tiles and Trims	16.20	sq.m									
14 (b)	Unglazed Tiles/ Granite Tiles/ Synthetic Granite Tiles	5.40	sq.m									
TOTAL CONSTRUCTION COST												

Prepared by:

Proprietor

PROGRAM OF WORKS
BILL OF QUANTITIES
 REPAIR 2024 - RXI - DAVAO ORIENTAL

School	: OSMEÑA ELEMENTARY SCHOOL	Date:
School I.D	: 129284	Budget Allocation:
Region	: XI	Engineering and Administrative Overhead:
Division	: Davao Oriental	Approved Budget for the Contract:
Project Title	:	Completion Period: 120CD
REPAIR OF 1 UNIT 1STRY-2CL MARCOS PREFAB AND 1 UNIT 1STRY-3CL BLSB II - OSMEÑA ES		Minimum Required Manpower:
		Civil Engineer Welder Carpenter
		General Foreman Mason Painter
		Helper Electrical Engineer
Location	: Governor Generoso, Davao Oriental	Minimum Required Equipment:
		Hand Tools Welding Machine
		One-Bagger Mixer Bar Cutter

Item No.	Description	% of Total	Unit	Quantity	Direct Cost		Adjusted Unit Cost (8) / (5)	Adjusted Adjusted Total Cost (9)
					Estimated Direct Cost (6)	Unit Cost (7) (6) / (5)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
BLDG. 1 - 1 UNIT 2CL MARCOS PREFAB								
A.	Facilities for the Engineer							
A.1	Temporary Facilities		Month	4.00				
B.	Other General Requirements							
SPL 1	Project Billboard		Each	1.00				
SPL 2	Construction Safety and Health		Ls	1.00				
C.	Mobilization and Demobilization							
C.1	Mobilization and Demobilization		Ls	1.00				
1.0000	Earthworks							
1 (a)	Clearing and Grubbing		sq.m	24.00				
1 (b)	Structural Excavation		cu m	17.44				
1 (d)	Gravel Bedding G-1		cu m	1.26				
1 (e)	Embankment		cu m	1.80				
2.0000	Concreting Works (3000 psi)							
2 (b)	Structural Concrete (Footing and Slab on Fill)		cu m	3.96				
2 (c)	Structural Concrete (Footing Tie Beam, Column, Suspended Slab, Girder/ Beam)		cu m	0.47				
3.0000	Rebar Works							
3 (a)	Reinforcing Steel Bar, Grade 40		kg	431.95				
4.0000	Formworks							
4 (a)	Installation and Removal of Formworks		sq.m	28.05				
5.0000	Masonry Works							
5 (a)	Demolition of Masonry Wall		sq m	60.00				
5 (b)	Masonry (100 mm CHB)		sq.m	102.16				
5 (d)	Plain Cement Plaster Finish		sq.m	204.32				
6.0000	Fabricated Materials and Hardware							
6 (a)	Removal of Door with Jamb		set	2.00				
6 (c)	Hollow Core Flush Door		sq m	3.36				
6 (d)	Wooden Panel Door		sq m	4.20				
6 (e)	Jalousie Window (Glass)		sq m	13.72				
6 (f)	Frames (Jamb, Sill, Head, Transoms, and Mullions)		set	14.00				
6 (h)	Security Grilles		ls	1.00				
7.0000	Steel Works							
7 (c)	Structural Steel Roof Truss		kg	109.79				
7 (d)	Structural Steel Purlins		kg	110.17				
8.0000	Roofing Works							
8 (a)	Removal of Metal Roofing		sq m	134.40				
8 (b)	Pre - painted Metal Sheets (Corrugated, Short Span/ Long Span, below 0.427 BMT/ above 0.427 BMT)		lm	123.00				
8 (e)	Fabricated Metal Roofing Accessory (Ridge/ Hip Rolls/ Flashing/ Counter Flashing/ Valley Roll)		m	38.90				
9.0000	Ceiling and Carpentry Works							
9 (c)	Removal of Partition		sq m	21.00				
9 (d)	Removal of Ceiling		sq m	84.00				
9 (e)	4.5mm Fiber Cement Board/ 4.5mm Marine Plywood/ 6.0mm Marine Plywood/ 6.0 mm Ordinary Plywood in Wood Frame Ceiling		sq.m	134.40				
9 (j)	Blackboard		sq.m	11.52				
10.0000	Electrical Works							
10 (a)	Conduit, Boxes and Fitting		Ls	1.00				
10 (b)	Wires and Wiring Devices		Ls	1.00				
10 (c)	Lighting Fixture/ Fixture		Ls	1.00				
10 (d)	Panel Board and Cabinets		Ls	1.00				
10 (e)	Ventilating Equipment		Ls	1.00				
11.0000	Plumbing Works							
11 (a)	Waterline Works		Ls	1.00				
12.0000	Sanitary Works							
12 (a)	Sewer Line Works		Ls	1.00				

Item No.	Description	% of Total	Unit	Quantity	Direct Cost		Adjusted Unit Cost	Adjusted Total Cost
					Estimated Direct Cost	Unit Cost		
12 (b)	Sanitary/ Plumbing Fixtures		Ls	1.00				
12 (c)	Three Chamber Septic Vault		Ls	1.00				
13.0000	Painting Works							
13 (a)	Masonry Painting		sq.m	342.24				
13 (b)	Wooden Painting		sq.m	138.00				
13 (c)	Metal Painting		sq.m	39.00				
14.0000	Tile Works							
14 (a)	Glazed Tiles and Trims		sq.m	10.80				
14 (b)	Unglazed Tiles/ Granite Tiles/ Synthetic Granite Tiles		sq.m	3.60				
BLDG. 2 - 1 UNIT 3CL BLSB II								
1.0000	Earthworks							
1 (a)	Clearing and Grubbing		sq.m	36.00				
1 (b)	Structural Excavation		cu m	18.72				
1 (d)	Gravel Bedding G-1		cu m	1.00				
2.0000	Concreting Works (3000 psi)							
2 (b)	Structural Concrete (Footing and Slab on Fill)		cu m	0.83				
2 (c)	Structural Concrete (Footing Tie Beam, Column, Suspended Slab, Girder/ Beam)		cu m	2.46				
3.0000	Rebar Works							
3 (a)	Reinforcing Steel Bar, Grade 40		kg	318.26				
4.0000	Formworks							
4 (a)	Installation and Removal of Formworks		sq.m	7.44				
5.0000	Masonry Works							
5 (a)	Demolition of Masonry Wall		sq m	6.00				
5 (b)	Masonry (100 mm CHB)		sq.m	38.55				
5 (d)	Plain Cement Plaster Finish		sq.m	77.10				
6.0000	Fabricated Materials and Hardware							
6 (a)	Removal of Door with Jamb		set	6.00				
6 (b)	Removal of Window with Jamb		set	6.00				
6 (c)	Hollow Core Flush Door		sq m	5.04				
6 (d)	Wooden Panel Door		sq m	6.30				
6 (e)	Jalousie Window (Glass)		sq m	20.58				
6 (f)	Frames (Jamb, Sill, Head, Transoms, and Mullions)		set	21.00				
6 (h)	Security Grilles		ls	1.00				
8.0000	Roofing Works							
8 (a)	Removal of Metal Roofing		sq m	242.88				
8 (b)	Pre - painted Metal Sheets (Corrugated, Short Span/ Long Span, below 0.427 BMT/ above 0.427 BMT)		lm	221.00				
8 (e)	Fabricated Metal Roofing Accessory (Ridge/ Hip Rolls/ Flashing/ Counter Flashing/ Valley Roll)		m	44.80				
9.0000	Ceiling and Carpentry Works							
9 (c)	Removal of Partition		sq m	42.00				
9 (d)	Removal of Ceiling		sq m	209.76				
9 (e)	4.5mm Fiber Cement Board/ 4.5mm Marine Plywood/ 6.0mm Marine Plywood/ 6.0 mm Ordinary Plywood in Wood Frame Ceiling		sq.m	204.48				
9 (h)	4.5 mm/ 6.0 mm thk 4' x 8' Fiber Cement Board/ Marine Plywood/ 6.0 mm thk 4' x 8' Ordinary Plywood on Metal Frame Double Partition		sq.m	158.80				
9 (i)	Blackboard		sq.m	17.28				
10.0000	Electrical Works							
10 (a)	Conduit, Boxes and Fitting		Ls	1.00				
10 (b)	Wires and Wiring Devices		Ls	1.00				
10 (c)	Lighting Fixture/ Fixture		Ls	1.00				
10 (d)	Panel Board and Cabinets		Ls	1.00				
10 (e)	Ventilating Equipment		Ls	1.00				
11.0000	Plumbing Works							
11 (a)	Waterline Works		Ls	1.00				
12.0000	Sanitary Works							
12 (a)	Sewer Line Works		Ls	1.00				
12 (b)	Sanitary/ Plumbing Fixtures		Ls	1.00				
12 (c)	Three Chamber Septic Vault		Ls	1.00				
13.0000	Painting Works							
13 (a)	Masonry Painting		sq.m	169.10				
13 (b)	Wooden Painting		sq.m	446.60				
14.0000	Tile Works							
14 (a)	Glazed Tiles and Trims		sq.m	16.20				
14 (b)	Unglazed Tiles/ Granite Tiles/ Synthetic Granite Tiles		sq.m	5.40				
							Total Construction Cost	

Prepared by:

Proprietor