

Republic of the Philippines
 Department of Public Works and Highways
 Bureau : DPWH
 Region : IX
 District/City : Zamboanga City
PROGRAM OF WORK
 (For all types of Project)

Date : 11-Dec-17

NAME/LOCATION OF PROJECT : PROPOSED ADDITIONAL RAINWATER COLLECTION SYSTEM OF DPWH REGIONAL OFFICE IX (7-CLUSTERED PROJECTS) FOR 2017	Appropriation : P 1,339,600.00 Source of Funds : Issued Obligated Authority : Released : Cal. Days to Complete : 38 Calendar Days Desirable Starting Date : Upon Approval Mode of Implementation : By Contract
PROJECT CATEGORY :	
PROJECT DESCRIPTION : Scope of Work :	

MINIMUM EQUIPMENT REQUIREMENT :		TECHNICAL PERSONNEL REQUIRED :			
Description	No.	Description	No.	Description	No.
NONE		Project Engineer	1	Plumber	8
		Construction Foreman	2	Laborer	15
		Mason	8		
		Steelman	8		
		Carpenter	8		

ESTIMATED COST OF PROPOSED WORK						
ITEM NO.	DESCRIPTION	% OF TOTAL	UNIT	QUANTITY	DIRECT COST	
					TOTAL	UNIT COST
PROPOSED RAINWATER COLLECTION SYSTEM AT CADALAGAN ELEMENTARY SCHOOL						
B.7	Occupational Safety and Health Program		Month	0.53	17,738.88	33,260.40
900(1)	Structural Concrete (Class "A")		cu. m.	1.20	6,783.51	5,647.28
902(1)-a1	Reinforcing Bars		kgs.	22.20	1,571.64	70.79
903(2)	Forms and Falsework		L.S	1.00	13,240.60	13,240.60
1001(9)	Storm Drainage and Downspout		L.S	1.00	107,005.77	107,005.77
1013(2)-c	Fabricated Metal Roofing Accessory (Gutters GA24)		ln. m.	36.60	10,246.91	279.97
1027(1)	Cement Plaster Finish		sq.m.	21.60	5,165.07	239.12
PROPOSED RAINWATER COLLECTION SYSTEM AT CAMP SUSANA ELEMENTARY SCHOOL						
B.7	Occupational Safety and Health Program		Month	0.53	17,738.88	33,260.40
900(1)	Structural Concrete (Class "A")		cu. m.	1.20	6,808.83	5,668.36
902(1)-a1	Reinforcing Bars		kgs.	42.64	2,945.02	69.07
903(2)	Forms and Falsework		L.S	1.00	8,738.07	8,738.07
1001(9)	Storm Drainage and Sewerage System		L.S	1.00	108,534.01	108,534.01
1013(2)-c	Fabricated Metal Roofing Accessory (Gutters GA24)		ln. m.	41.48	11,822.50	285.02
1027(1)	Cement Plaster Finish		sq.m.	21.60	5,165.07	239.12
PROPOSED RAINWATER COLLECTION SYSTEM AT COMMUNITY ENVIRONMENT AND NATURAL RESOURCES, ZAMBOANGA CITY						
B.7	Occupational Safety and Health Program		Month	0.40	13,429.16	33,572.90
900	Structural Concrete (Class "A")		cu. m.	1.15	6,775.23	5,908.97
902	Reinforcing Bars		kgs.	26.65	1,870.64	70.19
903	Forms and Falsework		L.S	1.00	16,780.61	16,780.61
1001	Storm Drainage and Sewerage System		L.S	1.00	82,074.41	82,074.41
1013(2)-c	Fabricated Metal Roofing Accessory (Gutters GA24)		ln. m.	9.76	2,486.18	254.73
1027	Cement Plaster Finish		sq.m.	21.60	5,250.44	243.08

PROPOSED RAINWATER COLLECTION SYSTEM AT LABUAN ELEMENTARY SCHOOL							
B.7	Occupational Safety and Health Program		Month	0.47	16,852.48	36,112.46	
801	Removal of Structure and Obstruction		L.S	1.00	3,296.30	3,296.30	
900(1)	Structural Concrete (Class "A")		cu. m.	1.20	7,469.71	6,218.54	
902(1)-a1	Reinforcing Bars		kgs.	22.20	1,571.64	70.79	
903(2)	Forms and Falsework		L.S	1.00	10,681.62	10,681.62	
1001(9)	Storm Drainage and Sewerage System		L.S	1.00	75,301.35	75,301.35	
1003(1)	Ceiling Works (Eaves)		sq.m.	14.40	8,328.48	578.37	
1027(1)	Cement Plaster Finish		sq.m.	21.60	5,165.07	239.12	
PROPOSED RAINWATER COLLECTION SYSTEM AT LIMPAPA ELEMENTARY SCHOOL							
B.7	Occupational Safety and Health Program		Month	0.47	16,852.48	36,112.46	
801	Removal of Structure and Obstruction		L.S	1.00	3,296.30	3,296.30	
900(1)	Structural Concrete (Class "A")		cu. m.	1.20	7,484.66	6,230.99	
902(1)-a1	Reinforcing Bars		kgs.	31.98	2,228.76	69.69	
903(2)	Forms and Falsework		L.S	1.00	9,965.06	9,965.06	
1001(9)	Storm Drainage and Sewerage System		L.S	1.00	99,252.09	99,252.09	
1013(2)-c	Fabricated Metal Roofing Accessory (Gutters GA24)		ln. m.	31.72	9,191.32	289.76	
1027(1)	Cement Plaster Finish		sq.m.	21.60	5,165.07	239.12	
1032	Painting		sq.m.	118.50	8,316.63	70.18	
PROPOSED RAINWATER COLLECTION SYSTEM AT TULUNGATUNG NATIONAL HIGH SCHOOL							
B.7	Occupational Safety and Health Program		Month	0.33	14,467.76	43,403.28	
900(1)	Structural Concrete (Class "A")		cu. m.	1.20	6,736.16	5,607.86	
902(1)-a1	Reinforcing Bars		kgs.	31.98	2,228.76	69.69	
903(2)	Forms and Falsework		L.S	1.00	11,321.76	11,321.76	
1001(9)	Storm Drainage and Sewerage System		L.S	1.00	87,953.89	87,953.89	
1027(1)	Cement Plaster Finish		sq.m.	14.40	3,570.05	247.92	
1032	Painting		sq.m.	11.30	2,388.29	211.28	
PROPOSED RAINWATER COLLECTION SYSTEM AT SAN RAMON ELEMENTARY SCHOOL							
B.7	Occupational Safety and Health Program		Month	0.33	14,467.76	43,403.28	
900(1)	Structural Concrete (Class "A")		cu. m.	1.20	7,470.44	6,219.15	
902(1)-a1	Reinforcing Bars		kgs.	22.20	1,571.64	70.79	
903(2)	Forms and Falsework		L.S	1.00	10,771.62	10,771.62	
1001(9)	Storm Drainage and Sewerage System		L.S	1.00	83,199.43	83,199.43	
1013(2)-c	Fabricated Metal Roofing Accessory (Gutters GA24)		ln. m.	26.84	7,615.73	283.75	
1027(1)	Cement Plaster Finish		sq.m.	14.40	3,570.05	247.92	
TOTAL					P	999,923.81	

NAME OF PROJECT : PROPOSED ADDITIONAL RAINWATER COLLECTION SYSTEM OF DPWH
REGIONAL OFFICE IX (7-CLUSTERED PROJECTS) FOR 2017

BREAKDOWN OF ESTIMATED EXPENDITURES	% OF TOTAL	AMOUNT
I. ESTIMATED COST		
A. DIRECT COST		
A.1. Materials	53.66%	718,894.30
A.2. Labor	19.45%	260,578.86
A.3. Equipment Expenses	1.53%	20,450.65
SUB-TOTAL (DIRECT COST)	74.64%	P 999,923.81
B. INDIRECT COST (Per D.O. # 197 s2016)		
B.1. Overhead, Contingency & Misc.	11.20%	149,988.57
B.2. Contractor's Profit	7.46%	99,992.38
C. VAT (5% of D.C. and I.C.)	4.67%	62,495.24
SUBTOTAL (CONTRACT COST)	97.97%	P 1,312,400.00
II. ESTIMATED GOVERNMENT EXPENDITURES		
1. Engineering and Administrative Overhead (3.50%)	2.03%	27,200.00
2. Detailed Engineering (1%)		
3. Reserved for the Payment of RROW		
4. Physical Reserved		
TOTAL ESTIMATED PROJECT COST	100.00%	P 1,339,600.00

Prepared:

JULMALI A. AHYAL, JR.

Engineer I

Checked:

PIO MARIO T. LACASTESANTOS

Chief, BOPWS

Submitted:

SATURNINO C. TORREFRANCA

OIC-Chief, Planning and Design Division

Recommending Approval:

CAYAMOMBAO D. DIA

OIC- Assistant Regional Director

Approved:

JORGE U. SEBASTIAN, JR., CESO III

Regional Director

APPROVED BUDGET FOR THE CONTRACT

PROPOSED ADDITIONAL RAINWATER COLLECTION SYSTEM OF DPWH REGIONAL OFFICE IX (7-CLUSTERED PROJECTS) FOR 2017

Contract Duration : **38 Calendar Days**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UPS		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
								(5) x (8)	5%[(5) + (9)]	(9) + (10)	(5) + (11)	(12) / (3)
PROPOSED RAINWATER COLLECTION SYSTEM AT CADALAGAN ELEMENTARY SCHOOL												
B.7	Occupational Safety and Health Program	0.53	Month	17,738.88	0.15	0.10	0.25	4,434.72	1,108.68	5,543.40	23,282.28	43,654.28
900(1)	Structural Concrete (Class "A")	1.20	cu. m.	6,783.51	0.15	0.10	0.25	1,695.88	423.97	2,119.85	8,903.36	7,412.05
902(1)-a1	Reinforcing Bars	22.20	kgs.	1,571.64	0.15	0.10	0.25	392.91	98.23	491.14	2,062.77	92.92
903(2)	Forms and Falsework	1.00	L.S	13,240.60	0.15	0.10	0.25	3,310.15	827.54	4,137.69	17,378.29	17,378.29
1001(9)	Storm Drainage and Downspout	1.00	L.S	107,005.77	0.15	0.10	0.25	26,751.44	6,687.86	33,439.30	140,445.07	140,445.07
1013(2)-c	Fabricated Metal Roofing Accessory (Gutters GA24)	36.60	ln. m.	10,246.91	0.15	0.10	0.25	2,561.73	640.43	3,202.16	13,449.07	367.46
1027(1)	Cement Plaster Finish	21.60	sq.m.	5,165.07	0.15	0.10	0.25	1,291.27	322.82	1,614.09	6,779.16	313.85
PROPOSED RAINWATER COLLECTION SYSTEM AT CAMP SUSANA ELEMENTARY SCHOOL												
B.7	Occupational Safety and Health Program	0.53	Month	17,738.88	0.15	0.10	0.25	4,434.72	1,108.68	5,543.40	23,282.28	43,654.28
900(1)	Structural Concrete (Class "A")	1.20	cu. m.	6,808.83	0.15	0.10	0.25	1,702.21	425.55	2,127.76	8,936.59	7,439.72
902(1)-a1	Reinforcing Bars	42.64	kgs.	2,945.02	0.15	0.10	0.25	736.25	184.06	920.32	3,865.34	90.65
903(2)	Forms and Falsework	1.00	L.S	8,738.07	0.15	0.10	0.25	2,184.52	546.13	2,730.65	11,468.72	11,468.72
1001(9)	Storm Drainage and Sewerage System	1.00	L.S	108,534.01	0.15	0.10	0.25	27,133.50	6,783.38	33,916.88	142,450.89	142,450.89
1013(2)-c	Fabricated Metal Roofing Accessory (Gutters GA24)	41.48	ln. m.	11,822.50	0.15	0.10	0.25	2,955.62	738.91	3,694.53	15,517.03	374.08
1027(1)	Cement Plaster Finish	21.60	sq.m.	5,165.07	0.15	0.10	0.25	1,291.27	322.82	1,614.09	6,779.16	313.85
PROPOSED RAINWATER COLLECTION SYSTEM AT COMMUNITY ENVIRONMENT AND NATURAL RESOURCES, ZAMBOANGA CITY												
B.7	Occupational Safety and Health Program	0.40	Month	13,429.16	0.15	0.10	0.25	3,357.29	839.32	4,196.61	17,625.77	44,064.43
900	Structural Concrete (Class "A")	1.15	cu. m.	6,775.23	0.15	0.10	0.25	1,693.81	423.45	2,117.26	8,892.49	7,755.53
902	Reinforcing Bars	26.65	kgs.	1,870.64	0.15	0.10	0.25	467.66	116.91	584.57	2,455.21	92.13
903	Forms and Falsework	1.00	L.S	16,780.61	0.15	0.10	0.25	4,195.15	1,048.79	5,243.94	22,024.56	22,024.56
1001	Storm Drainage and Sewerage System	1.00	L.S	82,074.41	0.15	0.10	0.25	20,518.60	5,129.65	25,648.25	107,722.66	107,722.66
1013(2)-c	Fabricated Metal Roofing Accessory (Gutters GA24)	9.76	ln. m.	2,486.18	0.15	0.10	0.25	621.54	155.39	776.93	3,263.11	334.33
1027	Cement Plaster Finish	21.60	sq.m.	5,250.44	0.15	0.10	0.25	1,312.61	328.15	1,640.76	6,891.21	319.04

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UPS		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
								(5) x (8)	5%[(5) + (9)]	(9) + (10)	(5) + (11)	(12) / (3)
PROPOSED RAINWATER COLLECTION SYSTEM AT LABUAN ELEMENTARY SCHOOL												
B.7	Occupational Safety and Health Program	0.47	Month	16,852.48	0.15	0.10	0.25	4,213.12	1,053.28	5,266.40	22,118.88	47,397.60
801	Removal of Structure and Obstruction	1.00	L.S	3,296.30	0.15	0.10	0.25	824.08	206.02	1,030.10	4,326.40	4,326.40
900(1)	Structural Concrete (Class "A")	1.20	cu. m.	7,469.71	0.15	0.10	0.25	1,867.43	466.86	2,334.29	9,804.00	8,161.84
902(1)-a1	Reinforcing Bars	22.20	kgs.	1,571.64	0.15	0.10	0.25	392.91	98.23	491.14	2,062.77	92.92
903(2)	Forms and Falsework	1.00	L.S	10,681.62	0.15	0.10	0.25	2,670.41	667.60	3,338.01	14,019.63	14,019.63
1001(9)	Storm Drainage and Sewerage System	1.00	L.S	75,301.35	0.15	0.10	0.25	18,825.34	4,706.33	23,531.67	98,833.03	98,833.03
1003(1)	Ceiling Works (Eaves)	14.40	sq.m.	8,328.48	0.15	0.10	0.25	2,082.12	520.53	2,602.65	10,931.14	759.11
1027(1)	Cement Plaster Finish	21.60	sq.m.	5,165.07	0.15	0.10	0.25	1,291.27	322.82	1,614.09	6,779.16	313.85
PROPOSED RAINWATER COLLECTION SYSTEM AT LIMPAPA ELEMENTARY SCHOOL												
B.7	Occupational Safety and Health Program	0.47	Month	16,852.48	0.15	0.10	0.25	4,213.12	1,053.28	5,266.40	22,118.88	47,397.60
801	Removal of Structure and Obstruction	1.00	L.S	3,296.30	0.15	0.10	0.25	824.08	206.02	1,030.10	4,326.40	4,326.40
900(1)	Structural Concrete (Class "A")	1.20	cu. m.	7,484.66	0.15	0.10	0.25	1,871.17	467.79	2,338.96	9,823.62	8,178.17
902(1)-a1	Reinforcing Bars	31.98	kgs.	2,228.76	0.15	0.10	0.25	557.19	139.30	696.49	2,925.25	91.47
903(2)	Forms and Falsework	1.00	L.S	9,965.06	0.15	0.10	0.25	2,491.27	622.82	3,114.08	13,079.14	13,079.14
1001(9)	Storm Drainage and Sewerage System	1.00	L.S	99,252.09	0.15	0.10	0.25	24,813.02	6,203.26	31,016.28	130,268.36	130,268.36
1013(2)-c	Fabricated Metal Roofing Accessory (Gutters GA24)	31.72	ln. m.	9,191.32	0.15	0.10	0.25	2,297.83	574.46	2,872.29	12,063.61	380.32
1027(1)	Cement Plaster Finish	21.60	sq.m.	5,165.07	0.15	0.10	0.25	1,291.27	322.82	1,614.09	6,779.16	313.85
1032	Painting	118.50	sq.m.	8,316.63	0.15	0.10	0.25	2,079.16	519.79	2,598.95	10,915.58	92.11
PROPOSED RAINWATER COLLECTION SYSTEM AT TULUNGATUNG NATIONAL HIGH SCHOOL												
B.7	Occupational Safety and Health Program	0.33	Month	14,467.76	0.15	0.10	0.25	3,616.94	904.24	4,521.18	18,988.94	56,966.81
900(1)	Structural Concrete (Class "A")	1.20	cu. m.	6,736.16	0.15	0.10	0.25	1,684.04	421.01	2,105.05	8,841.20	7,360.31
902(1)-a1	Reinforcing Bars	31.98	kgs.	2,228.76	0.15	0.10	0.25	557.19	139.30	696.49	2,925.25	91.47
903(2)	Forms and Falsework	1.00	L.S	11,321.76	0.15	0.10	0.25	2,830.44	707.61	3,538.05	14,859.81	14,859.81
1001(9)	Storm Drainage and Sewerage System	1.00	L.S	87,953.89	0.15	0.10	0.25	21,988.47	5,497.12	27,485.59	115,439.48	115,439.48
1027(1)	Cement Plaster Finish	14.40	sq.m.	3,570.05	0.15	0.10	0.25	892.51	223.13	1,115.64	4,685.69	325.40
1032	Painting	11.30	sq.m.	2,388.29	0.15	0.10	0.25	597.07	149.27	746.34	3,134.63	277.30

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UPS		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
								(5) x (8)	5%[(5) + (9)]	(9) + (10)	(5) + (11)	(12) / (3)
PROPOSED RAINWATER COLLECTION SYSTEM AT SAN RAMON ELEMENTARY SCHOOL												
B.7	Occupational Safety and Health Program	0.33	Month	14,467.76	0.15	0.10	0.25	3,616.94	904.24	4,521.18	18,988.94	56,966.81
900(1)	Structural Concrete (Class "A")	1.20	cu. m.	7,470.44	0.15	0.10	0.25	1,867.61	466.90	2,334.51	9,804.95	8,162.63
902(1)-a1	Reinforcing Bars	22.20	kgs.	1,571.64	0.15	0.10	0.25	392.91	98.23	491.14	2,062.77	92.92
903(2)	Forms and Falsework	1.00	L.S	10,771.62	0.15	0.10	0.25	2,692.91	673.23	3,366.13	14,137.75	14,137.75
1001(9)	Storm Drainage and Sewerage System	1.00	L.S	83,199.43	0.15	0.10	0.25	20,799.86	5,199.96	25,999.82	109,199.25	109,199.25
1013(2)-c	Fabricated Metal Roofing Accessory (Gutters GA24)	26.84	ln. m.	7,615.73	0.15	0.10	0.25	1,903.93	475.98	2,379.92	9,995.65	372.42
1027(1)	Cement Plaster Finish	14.40	sq.m.	3,570.05	0.15	0.10	0.25	892.51	223.13	1,115.64	4,685.69	325.40
T O T A L				999,923.81				249,980.95	62,495.24	312,476.19	1,312,400.00	

Submitted :

Approved :

Recommending Approval :

BELEN A. SAPALLEDA

Head, BAC-TWG

CAYAMOMBAO D. DIA

OIC- Assistant Regional Director

JORGE U. SEBASTIAN, JR., CESO III

Regional Director