

5.0 CRONOGRAMA

5.2 C. ADQUISICIÓN DE MATERIALES

CRONOGRAMA DE ADQUISICION DE MATERIALES

Obra : "MEJORAMIENTO DE LA CALLE ALZAMORA (AV. MARISCAL CACERES / CA. LIBERTAD) - DISTRITO DE IQUITOS, PROVINCIA DE MAYNAS - LORETO"

Plazo de Ejecución : 240 Dias calendario

Presupuesto Base : 14,001,458.58

INSUMO	UND.	CANTIDAD	P. UNIT.	TOTALS/.	MES 1 5.08%	MES 2 11.32%	MES 3 15.86%	MES 4 17.05%	MES 5 15.52%	MES 6 16.51%	MES 7 17.02%	MES 8 1.65%
ALAMBRE NEGRO RECOCIDO # 16	kg	6,048,7965	7.00	42,327.58	2,150.59	4,790.28	6,713.57	7,218.53	6,567.69	6,988.99	7,202.33	697.61
ALAMBRE NEGRO RECOCIDO # 8	kg	1,450,0621	7.00	10,150.36	515.72	1,148.73	1,609.95	1,731.04	1,574.96	1,675.51	1,727.15	167.29
ACERO LISO Ø 1/4"	kg	2,694,0450	4.01	2,694.90	136.92	304.99	427.44	459.59	418.15	444.85	458.66	44.42
ACERO LISO Ø 5/8"	kg	9,907,7370	5.60	55,483.33	2,819.01	6,279.14	8,800.20	9,482.10	8,608.98	9,158.60	9,440.87	914.43
CLAVOS 2" A 4"	kg	4,219,6256	6.70	28,271.49	1,436.42	3,199.53	4,484.13	4,821.41	4,386.70	4,666.76	4,810.59	465.95
ACERO CORRUGADO Ø 3/8"	kg	91,888,6326	5.16	473,113.34	24,038.03	53,542.99	75,040.40	80,684.54	73,409.89	78,096.54	80,503.48	7,797.46
ACERO CORRUGADO Ø 5/8"	kg	3,363,6340	5.25	17,134.08	870.55	1,939.09	2,717.63	2,922.04	2,658.58	2,828.31	2,915.48	282.39
ACERO CORRUGADO Ø 1/2"	kg	36,908,7485	5.22	192,141.87	9,762.37	21,744.98	30,475.55	32,767.76	29,813.36	31,716.71	32,694.22	3,166.72
ESCALERA DE GATO C/ELEMENTOS EMPOTRADOS F°C° 1/2"	und	65,0000	95.00	6,175.00	313.74	698.83	979.42	1,053.08	958.13	1,019.30	1,050.72	101.77
TIERRA DE CHACRA O VEGETAL	m3	521,1140	35.00	18,238.99	926.69	2,064.14	2,862.88	3,110.47	2,830.02	3,010.70	3,103.49	300.60
ABONO	m3	270,5570	50.00	13,527.85	687.33	1,530.97	2,145.65	2,307.03	2,099.03	2,233.03	2,301.86	222.95
MICROESFERA DE FIBRA DE VIDRIO	kg	47,9040	30.00	1,437.12	73.02	162.64	227.94	245.09	222.99	237.22	244.54	23.69
ARENA	m3	26,468,1650	35.00	926,385.78	47,067.99	104,840.56	146,933.84	157,985.43	143,741.20	152,917.96	157,630.89	15,267.92
MATERIAL DE RELLENO A-2-4	m3	6,765,6275	35.00	236,796.96	12,031.23	26,798.69	37,558.31	40,383.25	36,742.23	39,087.94	40,292.63	3,902.69
TUBERIA PVC SP C-10 Ø 1/2"	m	1,443,0455	2.45	3,535.46	179.63	400.11	560.76	602.94	548.57	583.60	601.58	58.27
ASfalto RC-250	gln	25,5030	25.00	637.58	32.39	72.16	101.13	108.73	98.93	105.24	108.49	10.51
DISOLVENTE PARA PINTURA DE TRAFICO	gln	1,1040	50.00	55.20	2.80	6.25	8.76	9.41	8.57	9.11	9.39	0.91
PINTURA ANTICORROSIVA	gln	2,7600	60.00	165.60	8.41	18.74	26.27	28.24	25.70	27.34	28.18	2.73
PINTURA ESMALTE	gln	3,4500	45.00	155.25	7.89	17.57	24.62	26.48	24.09	25.63	26.42	2.56
ASFALTO MC-30	gln	241,7534	18.00	4,351.56	221.09	492.47	690.20	742.11	675.20	718.31	740.45	71.72
DISOLVENTE PIPLACA DESMOLDANTE	gln	85,9873	50.00	4,299.37	218.44	486.57	681.92	733.21	667.11	709.69	731.57	70.86
CURADOR QUIMICO P/CONCRETO	gln	1,320,0607	50.00	66,003.04	3,353.50	7,469.67	10,488.73	11,256.13	10,241.26	10,895.08	11,230.87	1,087.81
ASFALTO SOLIDO PEN 40-50	gln	1,255,7963	20.00	25,115.93	1,276.10	2,942.41	3,983.63	4,283.26	3,897.07	4,145.87	4,273.65	413.94
CEMENTO PORTLAND TIPO I (42.5 kg)	bis	71,981,9502	32.00	2,303,422.41	117,032.73	260,682.00	365,345.31	392,824.65	357,408.93	380,224.60	391,943.10	37,963.09
CINTA SEÑALADORA	rl	100,0000	35.00	3,500.00	177.83	396.10	555.13	596.89	543.07	577.74	595.55	57.68
CHALECO REFLECTIVO	und	128,0000	7.00	896.00	45.52	101.40	142.11	152.80	139.03	147.90	152.46	14.77
GUANTES DE CONSTRUCCIÓN	und	180,0000	10.00	1,800.00	91.45	203.71	285.50	306.28	279.29	297.12	306.28	29.67
CASCO DE PROTECCIÓN	und	120,0000	30.00	3,600.00	182.91	407.42	571.00	613.94	558.59	594.25	612.56	59.33
MALLA DE SEGURIDAD	rl	50,0000	47.00	2,350.00	119.40	265.95	372.73	400.77	364.63	387.91	399.87	38.73
WATER STOP DE 6"	m	469,5860	30.00	14,086.80	715.72	1,594.23	2,234.30	2,402.36	2,185.76	2,325.30	2,396.97	232.17
RESPIRADOR CONTRA POLVO	und	240,0000	4.00	960.00	48.78	108.64	152.27	163.72	148.96	158.47	163.35	15.82
LENTES DE PROTECCIÓN	und	120,0000	12.00	1,440.00	73.16	162.97	228.40	245.58	223.44	237.70	245.03	23.73
BOTAS DE JEFE	und	60,0000	40.00	2,400.00	121.94	271.61	380.66	409.29	372.39	396.17	408.38	39.55
POLO MANGA LARGA	und	120,0000	30.00	3,600.00	182.91	407.42	571.00	613.94	558.59	594.25	612.56	59.33
PANTALON JEANS	und	120,0000	50.00	6,000.00	304.85	679.03	951.66	1,023.24	930.98	990.42	1,020.94	98.89
PROTECTORES AUDITIVOS	und	240,0000	42.90	10,296.00	523.12	1,165.21	1,633.05	1,755.88	1,597.56	1,689.55	1,751.93	169.69
BARANDA DE MADERA	m	20,0000	60.00	1,200.00	60.97	135.81	190.33	204.65	186.20	204.19	204.19	19.78
TOLDO DE EST. METALICA C/ TECHO DE POLIETILENO 3x6 m	und	6,0000	80.00	4,800.00	243.88	543.22	761.33	818.59	744.78	792.33	816.75	79.11
BAÑOS PORTATILES	und	4,0000	2,000.00	8,000.00	406.47	905.37	1,268.88	1,384.32	1,241.31	1,320.56	1,381.25	131.85
barreno	und	5,0255	300.00	1,507.65	76.60	170.62	239.13	257.11	233.93	248.87	256.54	24.85
PAGO POR CORTE DE SERVICIO PARA RECONEXION	und	28,0000	180.00	5,040.00	256.07	570.38	799.39	859.52	782.02	831.95	857.59	83.07
SENALES DE INICIO Y FIN DE OBRA	und	7,0000	30.00	210.00	10.87	23.77	33.31	35.81	32.58	34.66	35.73	3.46
SENALES DE HOMBRES TRABAJANDO	und	15,0000	30.00	450.00	22.86	50.93	71.37	76.74	68.82	74.28	76.57	7.42
SENALES DE DESVIO	und	14,0000	30.00	420.00	21.34	47.53	66.62	71.63	65.17	69.33	71.47	6.92
CARTELES DE SIGA Y PARE	und	8,0000	50.00	400.00	20.32	45.27	63.44	68.22	62.07	66.03	68.06	6.59
PEGAMENTO PARA PVC	gln	67,4778	55.00	3,711.28	188.56	420.01	588.65	632.92	575.85	612.62	631.50	61.17
PEGAMENTO PARA PVC	gln	44,9309	55.00	2,471.20	125.56	279.67	391.96	421.44	383.44	407.92	420.49	40.73
CINTA TEFLON	pza	75,4918	2.00	150.96	7.67	17.09	23.95	25.75	23.43	24.92	25.69	2.49
LUBRICANTE PARA PVC UF	gln	1,2400	55.00	68.20	3.47	7.72	10.82	11.63	10.58	11.26	11.60	1.12
LACA DESMOLDANTE	gln	131,8081	133.00	17,530.80	890.69	1,983.95	2,780.51	2,989.64	2,720.09	2,893.75	2,982.92	288.92
ANILLO DE JEFE UF 90 mm	und	674,5837	5.00	3,372.92	171.37	381.72	534.98	575.22	523.35	556.77	573.93	55.59
ANILLO DE JEFE UF 110mm	und	80,0000	5.00	400.00	20.32	45.27	63.44	68.22	62.07	66.03	68.06	6.59
ANILLO DE JEFE PTUBERIA DN 160 MM	und	596,0000	7.50	4,470.00	227.11	505.88	708.99	762.31	693.58	737.86	760.60	73.67
ARTE GRAFICO(GIGANTOGRAFIA)	m2	30,6000	50.00	1,530.00	77.74	173.15	242.67	260.93	237.40	252.56	260.34	25.22
TECKNOPORT 1.20 m. x 2.4 m. x 1"	gln	358,5663	16.50	5,863.34	298.92	665.83	933.16	1,003.34	912.88	971.16	1,001.09	96.96
CAJA P/ MEDIDOR DE AGUA INC. MARCO Y TAPA TERMOPLASTICA ESAL	und	370,0000	85.00	31,450.00	1,597.92	3,559.25	4,988.28	5,363.47	4,879.89	5,191.43	5,351.43	518.33
TRANSPORTE DE MATERIALES	ton	1,578,0000	25.00	39,450.00	2,004.38	4,464.82	6,257.16	6,727.79	6,121.20	6,511.99	6,712.69	650.18


Ing. Walter M. Romero Barrios
CIP. 143120

MOVILIZACION Y DESMOVILIZACION DE MAQUINARIA	2.00	10,000.00	20,000.00	1,016.16	2,263.43	3,172	3,410.79	3,103.27	3,301.39	3,403.14	329.62
ALQUILER DE ALMACEN	mes	2,000.00	16,000.00	812.93	1,810.75	2,537.76	2,728.63	2,482.61	2,641.11	2,722.51	263.70
TIZA	kg	2,340.8120	2.20	261.66	582.81	816.81	878.24	799.06	850.07	876.27	84.87
AGUA	m3	3,519.4149	6.00	1,072.89	2,399.79	3,349.28	3,601.20	3,276.51	3,485.69	3,593.12	348.02
PLANTONES ORNAMENTALES	und	10,000.00	200.00	- 10.16	22.63	31.72	34.11	31.03	33.01	34.03	3.30
SHUNGO HUACAPU Ø 6" x 5.00 mt	m	20,000.00	400.00	20.32	45.27	63.44	68.22	62.07	66.03	68.06	6.59
MADERA TORNILLO O SIMILAR	p2	21,000.00	79.80	3.80	79.80	12.66	13.61	12.38	13.17	13.58	1.32
BARRICADA DE MADERA	p2	86,172.0731	3.20	275,150.63	31,207.14	43,736.75	47,026.39	42,786.41	45,518.00	46,920.86	4,544.69
TECNOPORT 1.20 m. x 2.4 m. x 1"	und	18,000.00	1,800.00	91.45	203.71	285.50	306.97	279.29	297.12	306.28	29.67
TRIPLAY DE e=6 mm.	pln	16,794	16.50	16,794	14.03	31.26	43.81	47.10	45.59	47.00	4.55
MADERA PREPARADA PIENCOFRADO CARAVISTA	pln	274.9500	28.00	7,698.60	391.15	871.26	1,221.07	1,312.92	1,270.80	1,309.97	128.88
OCHAVO	p2	4,776.9050	3.80	18,152.24	922.28	2,054.32	2,879.12	2,816.56	2,996.38	3,088.73	299.17
SOLDADURA CELLOCORD	m	3,958.0070	0.70	2,770.60	140.77	439.44	472.50	429.90	457.34	471.44	45.66
PLATINA DE FIERRO 3/16" x 2"	kg	48,300.00	15.00	724.50	36.81	81.99	114.91	112.42	119.59	123.28	11.94
PLATINA DE FIERRO 3/16" x 2"	m	92,040.00	7.00	644.28	32.73	72.91	102.19	109.88	106.35	109.63	10.62
PLANCHAS DE ACERO 1.20x2.40x3/16"	pln	20,010.00	345.00	6,903.45	781.27	1,094.95	1,177.31	1,071.16	1,139.55	1,174.67	10.62
PLATINA DE FIERRO 3/16" x 3"	m	92,040.00	10.00	920.40	46.76	104.16	156.96	142.81	151.93	156.61	15.17
GRASA	kg	46,780.00	18.00	842.04	95.30	133.56	143.60	130.65	139.00	143.28	13.88
PINTURA DE TRAFICO	pln	31,320.00	60.00	1,879.20	95.48	212.67	298.06	320.48	319.76	319.76	30.97
ABRAZADERA DE PVC 1/2"x3"	und	370,000.00	8.00	2,960.00	150.39	334.99	469.48	459.28	488.61	503.66	48.78
LLAVE DE PASO DE USO MULTIPLE PVC - SAP	und	370,000.00	7.50	2,750.00	140.99	314.05	440.14	430.58	458.07	472.19	45.74
Reubicación de Postes de Concreto Armado de Electro Oriente	und	2,500.00	35,000.00	4,445.72	9,902.51	13,876.36	14,922.21	13,576.80	14,443.57	14,888.72	1,442.10
LUBRICANTE PARA PVC UF	pln	23,4795	55.00	1,291.37	65.61	146.15	204.82	200.37	213.17	219.74	21.28
TUBERIA PVC - U, SNA, DN 160mm	m	4,882,000.00	35.85	175,019.70	8,892.43	19,807.26	27,759.84	27,156.66	28,890.40	29,780.80	2,884.53
TUBERIA PVC - U S-25 160mm	m	1,110,4684	35.84	39,799.19	4,504.14	6,312.54	6,767.34	6,175.38	6,569.63	6,772.10	655.94
TUBERIA HPDE KM 160 PERFORADA INC. ACC	m	1,632,2250	39.80	64,962.56	3,300.63	7,351.92	10,303.70	11,078.69	10,729.33	11,053.82	1,070.66
UNION PVC SP PIAGUA Ø 1/2"	und	370,000.00	3.00	1,095.20	56.40	125.62	189.30	172.23	183.23	188.87	18.29
TAPON MACHO PVC UF 90 mm	und	32,000.00	34.35	1,095.20	55.85	124.40	174.34	170.56	181.44	187.04	18.12
GEOCOMPUESTO MAC DRAIN 2L TD	m2	2,331,7500	55.00	128,246.25	6,515.96	14,513.83	20,341.11	19,899.13	21,169.53	21,821.98	2,113.65
TAPON MACHO PVC UF 160 mm	und	93,2700	173.15	16,149.70	820.54	1,827.69	2,561.50	2,754.16	2,505.84	2,747.98	266.17
TANQUE DE AGUA DE 2500 lis	und	6,000.00	1,620.00	493.86	1,100.03	1,541.69	1,857.64	1,508.19	1,504.47	1,553.92	160.20
CODO PVC UF DE 90 mm x 90° C-10	und	4,000.00	4.50	18.00	2.04	2.85	3.07	2.79	3.06	3.06	0.30
CODO PVC SP DE 90° x 1/2"	und	370,000.00	1.50	555.00	28.20	62.81	88.03	86.12	91.61	94.44	9.15
CODO PVC UF DE 160 mm x 45°	und	93,2700	35.00	3,264.45	369.44	517.77	556.72	506.52	536.86	555.47	53.80
Shabos	und	8,000.00	5.00	40.00	4.53	6.34	6.82	6.21	6.60	6.81	0.66
TEE PVC UF90 mm x 90 mm C-10	und	19,000.00	25.00	475.00	53.76	75.34	81.01	73.70	78.41	80.82	7.83
TEE PVC UF 110 mm x 110 mm C-10	und	18,000.00	62.00	1,116.00	126.30	177.01	190.32	173.16	184.22	189.90	18.39
TEE PVC UF 160 mm	und	1,013,7096	50.50	51,192.33	2,600.99	5,793.52	8,119.60	7,943.18	8,450.29	8,710.73	843.71
CORPORACION PVC Ø 1/2"	und	399,6091	13.90	5,554.57	282.22	628.62	881.01	861.87	916.89	945.15	91.55
VALVULA COMPUERTA FF COMPUERTA TIPO MAZZA Ø 3"	und	26,000.00	300.00	7,800.00	396.30	882.74	1,237.16	1,210.27	1,287.54	1,327.22	128.55
TUBERIA PVC SAP Ø 3/4"	m	1,169,5000	3.80	4,444.10	502.95	704.88	757.89	689.56	733.59	756.19	73.24
TUBO DE ACERO Ø 2 1/2" x 6m.	pza	39,3300	150.00	5,899.50	299.74	687.66	935.72	915.39	973.83	1,003.84	97.23
REJILLA DE ACERO CORRUGADO Ø 5/8"	und	146,000.00	70.00	10,220.00	519.26	1,156.61	1,620.99	1,742.91	1,687.01	1,739.00	168.44
GRASS TOROURCO	m2	5,471,6970	10.00	54,716.97	2,780.07	6,192.41	8,678.65	8,490.07	9,032.10	9,310.47	901.80
TUBERIA PVC UF 90 mm C-10	m	3,108,9555	26.00	80,832.84	4,106.97	9,147.98	12,820.88	12,542.30	13,343.03	13,754.26	1,332.22
REDUCCION PVC UF DE 110 mm A 90 mm	und	15,000.00	40.00	600.00	67.90	95.17	102.32	93.10	99.04	102.09	9.89

COSTO DIRECTO

				5,754,378.93	292,369.60	651,232.26	912,700.75	981,349.26	892,869.19	949,871.98	979,147.00	94,838.88
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Ing. Walter M. Romero Berdiles
CP. 143120