



1. **NAME:** _____
 2. **DATE:** _____
 3. **TOPIC:** _____
 4. **QUESTION:** _____
 5. **ANSWER:** _____

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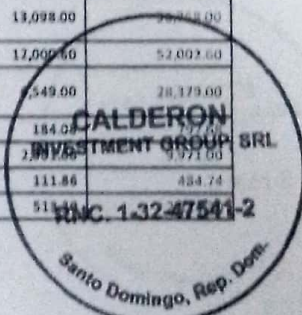
3.10	Tapas ciegos para cajas octogonales	13	unidad	18.00	22.12	313.88	8.70	8.70	94.16	308.64
3.11	couplin IMC de 1"	20	unidad	39.00	46.02	920.00	11.70	13.81	275.12	1,305.92
3.12	Registro 2"4 con tapa bocho de 1/8	137	unidad	20.00	23.00	2,033.00	7.50	8.80	1,211.00	5,244.00
3.13	tuberia pvcadr 26 de 3	20	unidad	280.00	330.00	6,560.00	84.00	99.12	1,981.00	8,590.00
	Paste y base	8	unidad	22,500.00	25,200.00	121,200.00	3,800.00	4,016.00	36,891.00	197,000.00
	Limpiaparapetrolantes cros	8	unidad	87,800.00	10,411.00	110,000.00	9,607.00	11,870.00	93,607.00	403,617.00
	Miscelaneos	1.00	PA			6,348.00				6,348.00
TOTAL										641,182.44

4.00	Alimentacion panel control/ Extraeros agua aire									
4.01	Alambre AWG THHN calibre #12/3	300.00	pies	81.44	96.78	11,013.00	9.34	11.01	3,307.00	14,320.00
4.02	Tuberia PVC sdr 26 1 plg	20.00	unidad	280.00	330.00	6,560.00	84.00	99.12	1,981.00	8,590.00
4.03	Sello Cortafuego de 1" explosion proof	2.00	unidad	1,445.00	1,705.00	3,413.00	433.00	511.71	1,045.00	4,458.00
4.04	Tuberia LT de 1"	20.00	pies	59.00	70.33	1,186.00	17.88	21.10	431.97	1,617.97
4.05	conectores Recto LT de 1"	8.00	unidad	60.70	71.63	573.01	18.31	21.49	171.90	744.91
4.06	Tuberia IMC DE 1" NIPLES DE 12"	8.00	unidad	125.00	147.50	1,180.00	37.50	44.25	354.00	1,534.00
4.07	couplin IMC de 1"	17.00	unidad	39.00	46.02	552.24	11.70	13.81	165.67	717.91
	Miscelaneos	1.00	PA			9,718.12				9,718.12
TOTAL										35,399.79

5.00	Alimentacion Motores Area tanque									
	Motores Dispensio/descarga: 4 motores de 5 HP, Alambre AWG THHN calibre 10/3	600	pies	71.00	83.78	50,168.00	21.30	25.13	15,080.00	65,248.00
5.01	Sello Cortafuego de 1" explosion proof	4	unidad	1,445.00	1,705.00	6,822.75	433.00	511.71	2,046.00	8,869.00
5.02	Tuberia PVC sdr 26 1 plg	20	unidad	280.00	330.00	6,560.00	84.00	99.12	2,577.12	11,167.52
5.03	Registro explosion Proof Hema 6P clase I grupo D	4	unidad	2,923.45	3,449.67	13,798.68	877.04	1,034.00	4,139.61	17,938.29
	Tuberia flexible explosion proof 1/2 plg de diametro y 12 plg de largo con sus accesorios	4	unidad	8,791.00	10,373.18	41,493.52	2,637.30	3,112.01	12,448.00	53,941.58
5.05	Tuberia LT de 1"	15	pies	59.00	70.33	2,461.48	17.88	21.10	738.44	3,199.92
5.06	conectores Recto LT de 1"	8	unidad	60.70	71.63	573.01	18.31	21.49	171.90	744.91
5.07	Tuberia IMC DE 1" NIPLES DE 12"	8	unidad	125.00	147.50	1,180.00	37.50	44.25	354.00	1,534.00
5.08	couplin IMC de 1"	28	unidad	39.00	46.02	1,288.56	11.70	13.81	386.57	1,675.13
	Miscelaneos	1.00	PA			8,220.97				8,220.97
TOTAL										172,640.30

6.00	Conexion Planta electrica / Transfer Automatico									
6.01	Alambre AWG THHN calibre # 3/0 negro 2 linea por fase para potenciales	275.00	pies	195.00	230.10	63,277.50	58.50	69.03	18,983.25	82,260.75
6.02	Alambre AWG THHN calibre #2/0 blanco 2 linea por fase para neutro	90.00	pies	185.00	218.30	19,647.00	55.50	65.49	5,894.10	25,541.10
6.03	Alambre AWG THHN calibre #5 verde 2 linea por fase	80.00	pies	38.12	44.98	3,598.53	11.44	13.49	1,079.56	4,678.09
6.04	Alambre AWG THHN calibre #10/2	100.00	pies	55.00	64.90	6,490.00	16.50	19.47	1,947.00	8,437.00
6.05	Tuberia liquid tight 3 plg	20.00	pies	230.00	342.20	6,844.00	87.00	102.66	2,053.20	8,897.20
6.06	Tuberia liquid tight 1 plg	10.00	pies	60.70	71.63	716.26	18.21	21.49	214.88	931.14
6.07	Enclosed Breaker con breaker TED 400 Amp/2 600v	1.00	unidad	18,500.00	21,830.00	21,830.00	5,550.00	6,549.00	6,549.00	28,379.00
6.08	Barra de tierra	1.00	unidad	410.00	483.80	483.80	123.00	145.14	145.14	628.94
6.09	Tuberia IMC de 3 plg niple de 3	2.00	unidad	3,683.00	4,345.94	8,691.88	1,104.90	1,303.78	2,607.56	11,299.44
6.10	tuberia PVC de 3"	4.00	unidad	1,695.00	2,090.10	8,090.40	508.50	600.03	2,400.12	10,490.52
6.11	Curva de PVC de 3	8.00	unidad	1,695.00	2,090.10	16,090.80	508.50	600.03	4,800.24	20,891.04
6.12	conector LT de 3	4.00	unidad	850.00	1,003.00	4,013.00	255.00	300.30	1,203.60	5,216.60
	Miscelaneos	1.00	PA			10,373.49				10,373.49
TOTAL										217,843.31

7.00	Conexion Transformador / Transfer Automatico									
7.01	Alambre AWG THHN calibre # 3/0 negro 2 linea por fase para potenciales	400.00	pies	195.00	230.10	92,046.00	58.50	69.03	27,612.00	119,658.00
7.02	Alambre AWG THHN calibre #2/0 blanco 2 linea por fase para neutro	200.00	pies	185.00	218.30	43,660.00	55.50	65.49	13,098.00	56,758.00
7.03	Tuberia PVC sdr 26 de 3 plg	20.00	unidad	1,695.00	2,090.10	40,002.00	508.50	600.03	17,000.50	52,002.50
7.04	Enclosed Breaker con breaker TED 400 Amp/2 600v	1.00	unidad	18,500.00	21,830.00	21,830.00	5,550.00	6,549.00	6,549.00	28,379.00
7.05	Terminales tipo Ojo	8.00	unidad	65.00	76.70	613.60	19.50	23.01	184.00	797.60
7.06	Barra de tierra	1.00	unidad	6,500.00	7,670.00	7,670.00	1,950.00	2,301.00	2,301.00	9,971.00
7.07	Tornillos 2 1/2 * 3/8 inox	4.00	unidad	79.00	93.22	372.88	23.70	27.97	111.86	484.74
7.08	Tuberia LT de 3	5.00	pies	290.00	342.20	1,711.00	87.00	102.66	513.45	2,224.45



7.09	Conector recto de 3 LT	4.00	unidad	950.00	1,003.00	4,012.00	255.00	900.90	1,203.80	8,215.60
7.10	coupling IMC de 3	2.00	unidad	318.00	375.24	750.48	95.40	112.57	225.14	975.62
7.11	Tubería IMC 3" Niple de 12"	8.00	unidad	3,683.00	4,343.94	34,767.52	1,104.90	1,303.76	10,430.28	45,197.76
7.12	Transformador 75 KVA 1 ph Tipo Pad Mounted/220-110vac/Homologado	1.00	unidad	190,000.00	224,200.00	224,200.00	57,000.00	67,260.00	67,260.00	291,460.00
7.13	Curva de PVC de 3	8.00	unidad	1,895.00	2,000.10	16,000.80	508.50	600.03	4,800.24	20,901.01
7.14	Alambre AWG THHN calibre #2 verde	100.00	pies	85.55	112.75	11,274.90	28.67	33.82	3,362.47	14,637.37
7.15	Diseño y sometimientode plano para transformador	1.00	unidad	70,000.00	82,800.00	82,800.00	21,000.00	24,780.00	24,780.00	107,350.00
7.16	Materiales de distribuidora y ejecución de instalación	1.00	unidad	25,000.00	29,500.00	29,500.00	7,500.00	8,850.00	8,850.00	38,350.00
	Miscelaneos	1.00	PA			79,430.67				79,430.67
TOTAL										878,737.41

8.00	Canalización Comunicación verifones/ servicio CLARO y Tricom/ Camaras de seguridad									
8.01	Tubería PVC sdr 26 de 1 plg. comunicación verifones	35.00	unidad	280.00	330.40	11,564.00	84.00	99.12	3,489.20	15,033.20
8.02	Tubería PVC sdr 26 de 2 plg. Servicio CLARO /musica	20.00	unidad	850.00	1,003.00	20,060.00	255.00	300.90	6,018.00	26,079.00
8.03	Tubería PVC sdr 26 de 1/2 plg. Para salida cama/ musica y especial	180.00	unidad	115.00	133.70	24,426.00	34.50	40.71	7,327.80	31,753.80
8.04	Tubería IMC de 2 pulg. Niple Servicio CLARO y TRICOM	2.00	unidad	1,480.00	1,746.40	3,492.80	444.00	523.92	1,047.94	4,540.64
8.05	Tubería IMC de 1 Niple pulg. comunicación verifones	8.00	unidad	682.00	804.76	6,438.08	204.80	241.43	1,831.42	8,369.50
8.06	Tubería PVC sdr 26 de 1/2 plg. Cámaras de seguridad	25.00	unidad	115.00	133.70	3,392.50	84.50	40.71	1,017.75	4,410.25
8.07	REGISTRO METALICO 12" X 12" X 12"	3.00	unidad	450.00	531.00	1,593.00	135.00	159.30	477.90	2,070.90
8.08	REGISTRO METALICO 18" X 18" X 6"	2.00	unidad	790.00	932.20	1,864.40	237.00	279.66	559.32	2,423.72
8.09	Registro explosion Proof Nema 6P clase I grupo D	4.00	unidad	2,823.45	3,449.67	13,798.68	877.04	1,034.90	4,139.81	17,838.29
8.10	Sello Cortafuego de 1" explosion proof	1.00	unidad	1,443.50	1,705.89	1,705.89	433.85	511.71	511.71	2,217.40
8.11	Tubería liquid tight 1 plg.	15.00	pies	80.70	71.63	1,074.38	18.21	21.49	322.32	1,396.71
8.12	Tubería liquid tight 2 plg.	15.00	pies	110.00	129.80	1,947.00	33.00	38.94	584.10	2,531.10
8.13	Conector LT recto de 2"	4.00	unidad	390.00	460.20	1,840.80	117.00	138.06	552.24	2,393.04
8.14	Conector LT recto de 1"	2.00	unidad	80.70	71.63	143.25	18.21	21.49	42.88	166.71
8.15	cajas 2*4 con su tapa nockou de 1/2 (Cámara /musica/ Salida especial)	50.00	unidad	23.00	29.50	1,475.00	7.50	8.85	442.50	1,917.50
8.16	Tubería EMT de 1/2 para musica	15.00	unidad	210.00	247.80	3,717.00	63.00	74.34	1,115.10	4,832.10
8.17	Conector EMT de 1/2	24.00	unidad	15.00	17.70	424.80	4.50	5.31	127.44	552.24
8.18	coupling emt	30.00	unidad	15.00	17.70	531.00	4.50	5.31	138.30	690.30
	Miscelaneos	1.00	PA			12,933.48				12,933.48
TOTAL										142,268.41

9.00	MISCELANEOS									
9.01	Tornillos tirafondo	200.00	unidad	2.00	2.38	471.00	0.80	0.71	141.80	613.80
9.02	Channel strut	15.00	unidad	590.00	696.20	10,443.00	177.00	208.86	3,132.90	13,575.00
9.03	Grapas strut	150.00	unidad	12.00	14.18	2,124.00	3.80	4.25	637.20	2,791.20
9.04	Tape	5.00	unidad	344.00	405.82	2,029.80	109.20	121.78	608.88	2,638.68
9.05	Tornillo HDI y HDI	250.00	unidad	17.00	20.08	5,015.00	9.50	6.02	1,304.50	6,519.50
9.06	Conectores Wire nut	200.00	unidad	4.90	4.72	944.00	1.20	1.42	283.20	1,227.20
9.07	Cinta plástica señal peligro	0.50	unidad	250.00	295.00	147.50	75.00	88.50	44.25	191.75
9.08	PVC lata	1.00	unidad	375.00	442.50	442.50	112.50	132.75	132.75	575.25
9.09	Tape de goma	3.00	unidad	800.00	944.00	2,832.00	140.00	163.20	848.80	3,681.00
9.10	Soga para sondear	100.00	libra	250.00	295.00	29,500.00	75.00	88.50	8,850.00	36,350.00
9.11	Car	5.00	libra	150.00	177.00	885.00	45.00	53.10	265.50	1,150.50
9.12	Abracadernas	200.00	unidad	15.00	17.70	3,540.00	4.50	5.31	1,062.00	4,602.00
9.13	Tarugos	200.00	unidad	7.00	8.28	1,652.00	2.10	2.48	495.60	2,147.60
9.14	chico	10.00	libras	4,720.00	5,568.80	55,694.00	1,418.00	1,670.88	16,708.80	72,404.80
9.15	Estopa	5.00	libras	10.00	18.00	295.00	15.00	17.70	88.50	382.50
TOTAL										150,632.88

10.00	OFICINA, FOOD SHOP, CUARTO DE PLANTA, CUARTO ELECTRICO Y CUARTO DE BOMBAS									
10.01	Instalación de Salida de tomacorriente 110vac	40	UND	1,667.20	1,667.20	66,688.00	500.18	590.19		
10.02	Instalación de Salida de tomacorriente 220vac para A/C	10	UND	1,890.74	1,890.74	18,907.40	597.22	704.72		
10.03	Instalación de Salida de interruptores sencillos	12	UND	1,243.11	1,243.11	14,917.32	372.85	440.06		



10.04	Instalacion de Salida de interruptores 3w	3	UND	1,829.19	1,829.19	5,487.57	548.76	847.53		5,487.57
10.05	Instalacion de Salida de luminarias	50	UND	1,470.74	1,470.74	73,537.00	441.32	520.64		73,537.00
10.06	Instalacion de Salida de UPS	10	UND	1,410.98	1,410.98	14,109.80	423.29	499.49		14,109.80
10.07	Instalacion de Salida de data	15	UND	1,410.98	1,410.98	21,164.70	423.29	499.49		21,164.70
10.08	Alambre AWG #12 para alimentacion 110vac oficina (negro y blanco) iluminacion	3500.00	PIES	8.16	9.63	33,760.80	2.45	2.89	10,110.34	43,871.04
10.09	Alambre AWG #12 para alimentacion 110vac oficina (negro y blanco) toma corriente	2500.00	PIES	8.16	9.63	24,872.00	2.45	2.89	7,221.60	31,293.60
10.10	Alambre AWG #12 para alimentacion 220vac oficina	700.00	PIES	8.16	9.63	5,740.16	2.45	2.89	1,022.05	6,762.21
10.11	Alambre AWG #14 verde para puesta a tierra	1000.00	PIES	6.85	8.08	8,083.00	2.06	2.42	2,424.90	10,507.90
10.12	Alambre AWG #12 para alimentacion 110vac oficina Inversor true online	500.00	PIES	8.16	9.63	4,814.40	2.45	2.89	1,444.32	6,258.72
10.13	Tubo PVC SDR 26 de 1/2	250.00	unidad	95.00	112.10	28,025.00	28.50	33.63	8,407.50	36,432.50
	Miscelaneos	1.00	PA			3,528.78				3,528.78
TOTAL										356,406.54

11.00	SISTEMA DE TIERRA									
11.01	Alambre Robin 2/0	300	Pies	227.00	267.86	80,358.00	68.10	80.36	24,107.40	104,465.40
11.02	Alambre St. Thhn No. 6 Verde	60	Pies	38.12	44.98	2,698.90	11.44	13.49	809.67	3,508.56
11.03	Pozo para puesta a tierra	2	Ud	66,546.00	78,524.28	157,048.56	19,963.80	23,557.28	47,314.57	204,363.13
11.04	Varilla de tierra	6	Ud	410.00	483.80	2,902.80	123.00	145.14	870.84	3,773.64
11.05	Terminal Tipo Ojo No. 2/0	10	Ud	75.00	88.50	885.00	22.50	26.55	265.50	1,150.50
11.06	Terminal Tipo Ojo No. 6	10	Ud	75.00	88.50	885.00	22.50	26.55	265.50	1,150.50
11.07	Tornillos con Tuercas y Arandelas de presion 1/2 x 5/8	10	Ud	45.00	53.10	531.00	13.50	15.93	159.30	690.30
11.08	Tornillos con Tuercas y Arandelas de presion 5/16 x 5/8	10	Ud	45.00	53.10	531.00	13.50	15.93	159.30	690.30
11.09	Barra Master Ground Pequeña	3	Ud	6,500.00	7,670.00	23,010.00	1,950.00	2,301.00	6,903.00	29,913.00
11.10	Fundentes 90	15	Ud	297.00	350.46	5,256.90	89.10	105.14	1,577.07	6,833.97
11.11	Masilla para Fundentes	3	Ud	1,200.00	1,416.00	4,248.00	360.00	424.80	1,274.40	5,522.40
11.12	Mineral Ultra Fit 50 lbs	3	Ud	3,200.00	3,776.00	11,328.00	960.00	1,132.80	3,398.40	14,726.40
11.13	Sal en grano saco	3	Ud	700.00	826.00	2,478.00	210.00	247.80	743.40	3,221.40
11.14	Carbon saco	3	Ud	700.00	826.00	2,478.00	210.00	247.80	743.40	3,221.40
11.15	Tierra negra saco	3	Ud	700.00	826.00	2,478.00	210.00	247.80	743.40	3,221.40
	Miscelaneos	1.00	PA			7,725.05				7,725.05
TOTAL										393,977.35

12.00	Suminstro e Instalacion UPS True online 2 kva 110 voltios	1.00	unidad							
12.01	Supresor de picos Industrial de 5kw, 208/3vac	1.00	unidad	35,000.00	41,300.00	41,300.00	10,500.00	12,390.00	12,390.00	53,690.00
	Miscelaneos	1.00	PA			5,369.00				5,369.00
TOTAL										59,059.00

13.00	PENELES ELECTRICOS Y CONTROL									
13.01	Transfer switch (Eaton, Schnider, GE, Siemens) de 500 amp con monitor de voltaje, amperímetro, voltímetro, luces Indicadoras, embarrado de 500 amp	1	Ud	120,000.00	141,600.00	141,600.00	12,000.00	14,160.00	14,160.00	155,760.00
13.02	Contactador de 60 amperes (Eaton, Schnider, GE, Siemens) para Sistema Contra Incendios	1	Ud	13,000.00	15,340.00	15,340.00	1,300.00	1,534.00	1,534.00	16,874.00
13.03	Panel board General Electric de 24 circuitos	1	Ud	23,900.00	28,202.00	28,202.00	2,390.00	2,820.20	2,820.20	28,720.20
13.04	Panel board General Electric de 12 circuitos	1	Ud	12,900.00	15,222.00	15,222.00	1,290.00	1,522.20	1,522.20	16,744.20
13.05	Panel board General Electric de 12 circuitos ups	4	Ud	13,900.00	16,402.00	55,608.00	1,390.00	1,640.20	6,560.80	62,168.80
13.06	Gabinete metálico en tola de 1/18vo de pulg. NEMA 1R 36"X 36"X 12" para control de bombas y luces, con sus luces Indicadoras, selectores.	1	Ud	40,500.00	47,790.00	47,790.00	4,050.00	4,779.00	4,779.00	52,569.00
13.07	Bypas mecánico con dos (2) breakers de 30amp	1	Ud	4,500.00	5,310.00	5,310.00	450.00	531.00	531.00	5,841.00

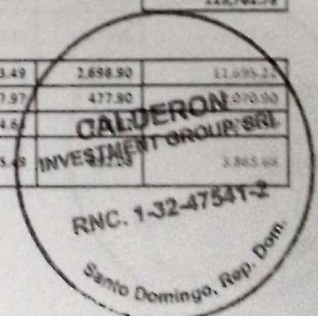


13.08	Breaker General Electric THQL 15 amp/1	18	Ud	320.00	377.60	5,760.00	32.00	37.76	679.68	6,439.68
13.09	Breaker General Electric THQL 10 amp/1	12	Ud	320.00	377.60	3,840.00	32.00	37.76	453.12	4,293.12
13.10	Breaker General Electric THQL 20 amp/1	4	Ud	320.00	377.60	1,280.00	32.00	37.76	131.04	1,411.04
13.11	Breaker General Electric THQL 20 amp/2	6	Ud	320.00	377.60	1,920.00	32.00	37.76	226.56	2,146.56
13.12	Breaker General Electric THQL 30 amp/1	6	Ud	580.00	684.40	3,480.00	58.00	68.44	410.64	3,890.64
13.13	Breaker General Electric THQL 30 amp/2-AIRES Y SALIDAS 220	10	Ud	580.00	684.40	5,800.00	58.00	68.44	684.40	6,484.40
13.14	Breaker General Electric THQL 25 amp/2	1	Ud	580.00	684.40	580.00	58.00	68.44	68.44	648.44
13.15	Breaker General Electric THQL 40 amp/2	5	Ud	1,400.00	1,652.00	7,000.00	140.00	165.20	826.00	7,826.00
13.16	Breaker General Electric THQL 60 amp/3	3	Ud	1,500.00	1,770.00	4,500.00	150.00	177.00	331.00	5,031.00
13.17	Breaker General Electric THQL 50 amp/2	4	Ud	1,400.00	1,652.00	5,600.00	140.00	165.20	680.80	6,280.80
13.18	Contactor de 20 amperes (Eaton, Schneider, GE, Siemens)	3	Ud	5,600.00	6,608.00	16,800.00	560.00	660.80	1,982.40	18,782.40
13.19	Contactor de 25 amperes (Eaton, Schneider, GE, Siemens)	1	Ud	5,600.00	6,608.00	5,600.00	560.00	660.80	660.80	6,260.80
13.20	Contactor de 30 amperes (Eaton, Schneider, GE, Siemens)	1	Ud	7,900.00	9,322.00	7,900.00	790.00	932.20	932.20	8,832.20
13.21	Contactor de 40 amperes (Eaton, Schneider, GE, Siemens)	2	Ud	7,900.00	9,322.00	15,800.00	790.00	932.20	1,864.40	17,664.40
13.22	Timer semanal	2	Ud	2,500.00	2,950.00	5,000.00	250.00	295.00	590.00	5,590.00
13.23	Contactor 25amp 220vac, 5hp bomba de combustible	4	Ud	5,600.00	6,608.00	22,400.00	560.00	660.80	2,643.20	25,043.20
13.24	Pantalla HDI 10"	1	Ud	60,000.00	70,800.00	60,000.00	6,000.00	7,080.00	7,080.00	67,080.00
13.25	Transformador de 1 kva 110/220 para dispensadores	1	Ud	12,000.00	14,160.00	12,000.00	1,200.00	1,416.00	1,416.00	13,416.00
13.26	Power supply de 24 voltios	1	Ud	25,000.00	29,500.00	25,000.00	2,500.00	2,950.00	2,950.00	27,950.00
13.27	Relay de contro 24 voltios	20	Ud	860.00	1,014.80	20,296.00	86.00	101.48	2,029.60	22,325.60
13.28	Supresor de pico	1	Ud	34,000.00	40,120.00	40,120.00	3,400.00	4,012.00	4,012.00	44,132.00
13.29	PLC de 24 in/out (Eaton/Schneider/GE)	1	Ud	45,000.00	53,100.00	53,100.00	4,500.00	5,310.00	5,310.00	58,410.00
13.30	Borneras de conexión	50	Ud	55.00	64.90	3,245.00	5.50	6.49	324.50	3,569.50
13.31	Luces indicadoras	3	Ud	650.00	767.00	2,301.00	65.00	76.70	230.10	2,531.10
13.32	Ensamble / cableado y programación	1	Ud	100,000.00	118,000.00	118,000.00	10,000.00	11,800.00	11,800.00	129,800.00
13.33	Ingeniería y Transporte	1	Ud	65,000.00	76,700.00	76,700.00	6,500.00	7,670.00	7,670.00	84,370.00
	Miscelaneos	1.00	PA			45,322.80	-			45,322.80
TOTAL										851,778.88

14.00	MANO DE OBRA ELECTRICA									
14.01	INSTALACION MECANICA Y ELECTRICA DE GENERADOR ELECTRIC 75 KVA	1.00	unidad	80,000.00	80,000.00	80,000.00	36,000.00	42,480.00		80,000.00
TOTAL										80,000.00

15.00	CANALIZACION DE PANELES SOLARES									
15.01	TUBERIA PVC DE 3"	5.00	unidad	1,695.00	2,000.10	10,000.50	508.50	600.03	3,000.13	13,000.63
15.02	CURVA pvc de 3"	2.00	unidad	146.00	172.28	344.56	43.80	51.68	105.37	447.93
15.03	NIPLE de 3 " de 12" de largo	2.00	unidad	600.00	708.00	1,416.00	180.00	212.40	424.80	1,840.80
15.04	Soga de guia	1.00	Rollo	250.00	295.00	295.00	75.00	88.50	88.50	383.50
15.05	REGISTRO METALICO 18" X 18" X 6"	1.00	unidad	250.00	295.00	295.00	75.00	88.50	88.50	383.50
15.06	tuberia EMT de 3	1.00	unidad	1,850.00	2,183.00	2,183.00	555.00	654.90	654.90	2,837.90
15.07	Conector EMT de 3	1.00	unidad	350.00	413.00	413.00	105.00	123.90	123.90	536.90
15.08	Tuberia LT de 3	5.00	pies	290.00	342.20	1,711.00	87.00	102.66	513.30	2,224.30
15.09	Conector recto de 3 LT	2.00	unidad	850.00	1,003.00	2,006.00	255.00	300.90	601.80	2,607.80
15.10	coupling IMC de 3	2.00	unidad	318.00	375.24	750.48	95.40	112.57	225.14	975.62
	Miscelaneos	1.00	PA			10,513.89				10,513.89
TOTAL										118,761.79

16.00	Sistema Contra Incendio									
16.01	Alambre AWG THHN calibre # 6	200.00	pies	38.12	44.98	8,996.32	11.44	13.49	2,698.90	11,695.22
16.02	Alambre AWG THHN calibre # 8 blanco	60.00	pies	22.50	26.55	1,593.00	8.75	7.97	477.80	1,670.80
16.03	Alambre AWG THHN calibre # 10 verde	60.00	pies	13.12	15.48	928.90	3.94	4.61		
16.04	Alambre AWG THHN calibre # 10/3 para bomba jockey	35.00	pies	72.00	84.96	2,973.60	21.60	25.49		3,865.68



16.05	Alambre AWG THHN calibre # 18/4	35.00	pies	69.29	81.76	2,861.68	20.79	24.53	858.50	3,720.18
16.06	Tubería IMC 2" Niple	2.00	unidad	1,480.00	1,746.40	3,492.80	444.00	523.92	1,047.84	4,540.64
16.07	panel de 12 circuito	1.00	unidad	12,500.00	14,750.00	14,750.00	3,750.00	4,425.00	4,425.00	19,175.00
16.08	Tubería pvc de 2 pulg	3.00	unidad	850.00	1,008.30	3,008.30	255.00	300.90	901.70	3,911.70
16.09	Tubería LT de 2"	12.00	pies	185.00	218.30	2,619.60	55.50	65.49	785.88	3,405.48
16.10	conector LT de 2"	2.00	unidad	390.00	460.20	920.40	117.00	138.06	276.12	1,196.52
16.11	variador de velocidad de 20 hp 220 con su Gabinete	1.00	unidad	74,000.00	87,320.00	87,320.00	22,200.00	26,196.00	26,196.00	113,516.00
16.12	Gabinete 500*400*200	1.00	unidad	5,000.00	5,900.00	5,900.00	1,500.00	1,770.00	1,770.00	7,670.00
16.13	Alambre de control 16/8	120.00	pies	69.29	81.76	9,811.46	20.79	24.53	2,943.44	12,754.90
16.14	Tubería LT de 1"	15.00	pies	59.60	70.33	1,054.92	17.88	21.10	316.48	1,371.40
16.15	conector recto Lt de 1"	1.00	unidad	60.70	71.63	71.63	18.21	21.49	21.49	93.11
16.16	conector curvo Lt de 1"	1.00	unidad	106.50	125.67	125.67	31.95	37.70	37.70	163.37
	Miscelaneos	1.00	PA			17,538.40				17,538.40
	TOTAL									207,896.06

PRESUPUESTO MECANICO

17.00	Instalacion Mecanica									
17.01	UPP 50 MM (1 1/2") Tubería coaxial 100 M (328.1') (FFS -	200.00	unidad	500.00	590.00	118,000.00	150.00	177.00	35,400.00	153,400.00
17.02	UPP(EN) Se vende por pie (lineal) UPP Acople Soldable 50 mm - Largo (FFS - UPP(EN))	16.00	unidad	1,339.00	1,580.02	25,280.32	401.70	474.01	7,584.10	32,864.42
17.03	UPP Codo de 90 para tubería de 50 mm 1 1/2" (FFS - UPP(EN))	4.00	unidad	2,000.00	2,360.00	9,440.00	600.00	708.00	2,832.00	12,272.00
17.04	UPP "T" de 50 mm (FFS - UPP(EN))	4.00	unidad	2,500.00	2,950.00	11,800.00	750.00	885.00	3,540.00	15,340.00
17.05	UPP Sello anillo de fusion para tubería 1 1/2" coaxial (FFS -	16.00	unidad	3,167.00	3,737.06	59,792.96	950.10	1,121.12	17,937.89	77,730.85
17.06	UPP(EN)) UPP Reductor electrofusion 63/50 mm con puerto de prueba (FFS	16.00	unidad	3,310.00	3,905.80	62,492.80	993.00	1,171.74	18,747.84	81,240.64
17.07	- UPP(EN)) UPP Terminacion PE y laton niquelado de 1 1/2" x 1 1/2" hembra	8.00	unidad	3,640.00	4,295.20	34,361.60	1,092.00	1,288.56	10,308.48	44,670.08
17.08	NPT (FFS - UPP(EN)) UPP Union montaje de transicion, 50 mm x 1 1/2" rosca hembra npt	4.00	unidad	3,900.00	4,602.00	18,408.00	1,170.00	1,380.60	5,521.40	23,930.40
17.09	(FFS - UPP(EN)) APT Bota flexible para conduleta electrica 3/4" y 1" (FFS - APT)	4.00	unidad	2,900.00	3,422.00	13,688.00	870.00	1,026.60	4,106.40	17,794.40
17.10	UPP SUMP - Sump para base de Ovacion 38"x15" - altura 31"	2.00	unidad	41,900.00	49,442.00	98,884.00	12,570.00	14,832.60	29,665.20	128,549.20
17.11	APT Juego de barra estabilizadora	8.00	unidad	3,779.00	4,459.22	35,673.76	1,133.70	1,337.77	10,702.13	46,375.89
17.12	Manguera Flexible 1 1/2 x 1 1/2	8.00	unidad	3,245.00	3,829.10	30,632.80	973.50	1,148.73	9,189.84	39,822.64
17.13	1-1/2" NPT Single poppet, pressure, Emergency shut-off valves,	8.00	unidad	7,082.00	8,356.76	66,854.08	2,124.60	2,507.03	20,056.22	86,910.30
17.14	male threaded top outlet (EMCO) APT Registro para tanque de 36" x 47", para contencion de	4.00	unidad	41,900.00	49,442.00	197,768.00	12,570.00	14,832.60	59,330.40	257,098.40
17.15	derrames de una sola pieza APT Adaptador de conexion para tanques, 4" NPT (FFS - APT)	4.00	unidad	13,000.00	15,340.00	61,360.00	3,900.00	4,602.00	18,408.00	79,768.00
17.16	Manhole de 39" con faldon de 10" Emco	4.00	unidad	40,500.00	47,790.00	191,160.00	12,150.00	14,337.00	57,348.00	248,508.00
17.17	EBW- Tubo de gota de aluminio 4" x 12' (Sistema de Presion) (FFS	4.00	unidad	6,581.00	7,765.58	31,062.32	1,974.30	2,329.67	9,318.70	40,381.02
17.18	- EBW)	152.24	unidad	351.00	414.18	63,054.76	105.30	124.25	18,916.43	81,971.19
17.19	UPP Tubería 2" simple 19.03'	8.00	unidad	1,880.00	2,218.40	17,747.20	564.00	665.52	5,324.16	23,071.36
17.20	UPP Acople soldable 2"	12.00	unidad	2,113.00	2,493.34	29,920.08	633.90	748.00	8,976.02	38,896.10
17.21	UPP Terminal 2"x2" NPT	4.00	unidad	3,350.00	3,953.00	15,812.00	1,005.00	1,185.90	4,743.60	20,555.60
17.22	UPP Terminacion, PE y laton niquelado, 63MM (2") hembra npt	4.00	unidad	3,200.00	3,776.00	15,104.00	960.00	1,132.80	4,531.20	19,635.20
17.23	ZEPPINI Boca de Inspeccion de 12" con anillo y tapa en hierro	4.00	unidad	5,650.00	6,667.00	26,668.00	1,695.00	2,000.10	7,000.40	33,668.40
17.24	fundido (Manhole de 12" tapa de hierro) 4" Screw On Pipe Cap	4.00	unidad	2,725.00	3,215.50	12,862.00	817.50	964.65	3,855.80	16,720.60

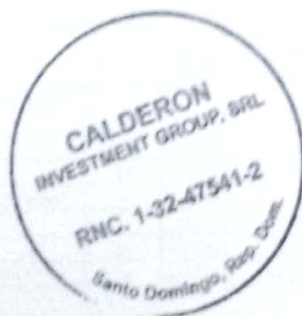


17.35	ERW tubo perforado de 4" x 13' en PVC para pozos de inspección	3.00	unidad	10,328.00	12,387.00	14,376.00	3,098.00	3,698.11	7,311.77	21,698.90
17.36	ERW Tapa de nylon de 4 pulgadas para pozos de monitoreo	1.00	unidad	2,709.00	3,196.67	3,693.33	811.70	958.99	1,811.87	5,511.11
17.37	FE PETRO, Bomba sumergible 3/4 HP, largo variable, monofásica	3.00	unidad	31,300.00	36,170.00	40,810.00	14,400.00	16,801.00	34,003.00	91,013.00
17.38	60 HZ (FFS - FE-PETRO-S1) ZEPPINI Conector flexible 2"x20"x1 1/2" MF/MF en acero	3.00	unidad	9,850.00	11,619.00	13,487.00	3,895.00	4,686.00	9,586.00	29,123.00
17.39	Inoxidable Emco Wheaton Contenedor para derrame de 5 gals, con válvula de	3.00	unidad	26,000.00	31,270.00	35,810.00	7,850.00	9,381.00	18,148.00	51,051.00
17.40	drenaje en la toma de llenado, material de base y tapa, hierro fundido (EMCO WHEATON) UPP Codo 45 63 MM (2") para tubería de 63 mm	3.00	unidad	1,948.00	2,298.00	2,695.00	584.00	689.00	1,368.00	4,014.00
17.41	BRASS 4"NPSM X 4"CAM FILL Adaptor (EMCO)	3.00	unidad	3,742.00	4,410.00	5,076.00	1,122.00	1,346.67	2,697.00	7,720.00
17.42	TIGHT FILL CAP 4" (EMCO)	3.00	unidad	1,783.00	2,140.00	2,497.00	576.00	691.00	1,364.00	4,014.00
17.43	Ball Float Vent Valve, 2" x 6.87" (Pressure System only) 1/16" BH (EMCO)	3.00	unidad	3,166.00	3,795.00	4,424.00	949.00	1,138.75	2,287.00	6,660.00
17.44	Extractor tee 4"x2"x4"	3.00	unidad	6,727.00	7,997.00	9,267.00	2,518.00	2,981.00	5,954.00	17,000.00
17.45	2" Tank Vent Cap, Aluminum (FFS - ERW)	3.00	unidad	1,721.00	2,065.00	2,409.00	516.00	609.00	1,227.00	3,645.00
17.46	Manhole 18" - faldón 10"	3.00	unidad	9,745.00	11,487.00	13,229.00	2,920.00	3,444.00	6,888.00	20,000.00
17.47	ERW Boca de inspección de 10" para monitoreo de agua	2.00	unidad	8,712.00	10,380.00	12,048.00	2,613.00	3,084.00	6,168.00	18,216.00
17.48	FE PETRO Caja de control con interruptor de seguridad para bombas de 3/4 y 1 1/2 hp (FFS - FE-PETRO)	3.00	unidad	4,911.00	5,794.00	6,677.00	1,473.00	1,738.00	3,454.00	10,000.00
17.49	2" Ball Valve, Full Port, Threaded (OPW)	12.00	unidad	1,197.00	1,412.00	1,627.00	359.00	431.00	860.00	2,500.00
17.50	ELECTRICAL SEAL UNIT 1" AC	2.00	unidad	807,110.00	946,489.00	1,085,878.00	240,633.00	283,565.00	567,893.00	1,600,000.00
17.51	Tanque 12000 GLS 96 X 384 en tola de 1/4 (forrado en fibra)	1.00	unidad	79,350.00	93,833.00	108,316.00	23,805.00	28,589.00	56,999.00	171,722.00
17.52	Bomba de suministro	1.00	unidad	411,730.00	494,076.00	576,422.00	108,276.00	127,766.00	255,542.00	849,698.00
17.53	SUMINISTRO E INSTALACION MECANICA Y ELECTRICA DE DISPENSADORES	1.00	unidad	100,630.00	120,756.00	140,882.00	30,500.00	36,600.00	73,200.00	219,630.00
17.54	Miscelaneos	1.00	PA				100,630.00			100,630.00
TOTAL							5,751,596.43			5,981,761.64

Note:

Precios sujetos a variación por tasa del dólar en productos importados.
Los materiales de importación solo se está cobrando mano de obra

Prepared por:
Ing. Rafael Calderón



Gastos Directos

Sub-Total General 8,751,596.43
Meno de Obra 2,148,293.72
Total Neto 10,519,890.15

Gastos Indirectos

Dirección Técnica 1,091,889.02
Itbis Dirección Técnica 196,558.02
Transporte 327,596.70
Gastos Administrativos 109,398.90
Otros 54,599.45
Total Gastos Indirectos 1,779,842.10

TOTAL GENERAL 12,699,832.25



CALDERÓN INVESTMENT GROUP
 CALLE VÍCTOR GARRIDO PUELLO #143
 TEL: 829-222-6251
 RNC: 1-31-47541-2

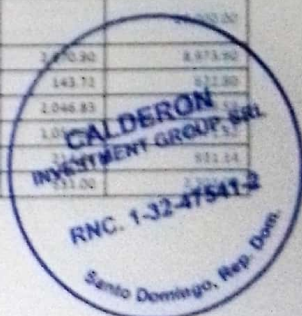
CLIENTE: CALDEMERS SRL (ESTACION TEXACO SAN JUAN DE LA MAGUANA)
 RNC: 131161321
 ORDEN Nº: 89
 DESCRIPCIÓN: Conexión //

EMAIL: CALDEMERSRL@GMAIL.COM
 ATENCIÓN: Rafael Calderón
 TEL: 1
 LOCALIZACIÓN: San Juan De La Maguana

1.00	Conexión Panel de control / Dispensadores										
1.01	Alambre AWG THHN calibre #12/3 apantallado power clip (UPS) + contacto	600.00	pies	78.17	93.24	55,344.36	23.45	27.67	16,603.81	73,947.67	
1.02	Alambre AWG THHN calibre #14/3 apantallado power verifones	600.00	pies	61.70	72.81	43,683.60	18.51	21.84	13,105.08	56,788.68	
1.03	Tubería PVC 1 pig (para 1.01)	35.00	unidad	280.00	330.40	11,564.20	84.00	99.12	3,469.20	15,033.40	
1.04	Tubería PVC 1 pig (para 1.02)	35.00	unidad	280.00	330.40	11,564.20	84.00	99.12	3,469.20	15,033.40	
1.05	Tubería IMC DE 1" - NIPLES DE 12"	20.00	unidad	125.00	147.50	2,950.00	37.50	44.25	885.00	3,835.00	
1.06	Registro explosion Proof Nema 6P clase I grupo D	2.00	unidad	2,828.45	3,495.67	6,899.34	877.04	1,034.90	2,089.80	8,989.14	
1.07	Sello Cortafuego de 1" explosion proof	9.00	unidad	1,445.50	1,705.69	15,351.21	433.65	511.71	4,805.36	19,856.57	
1.08	Tubería flexible explosion proof 1/2 pig de diámetro y 12 pig. de largo con sus accesorios	5.00	unidad	8,791.00	10,379.38	51,896.90	2,637.30	3,112.01	15,560.07	67,426.97	
1.09	Alambre de goma 12/3 para paro de columna y oficina	300.00	pies	31.14	36.75	11,029.56	9.34	11.02	3,307.07	14,336.63	
1.10	Pulsador de emergencia NEMA 3R con covertop plástico oficina y columna	4.00	unidad	2,145.00	2,531.10	10,124.40	643.50	759.33	3,037.32	13,161.72	
1.11	Tubería LT de 1"	60.00	pies	59.60	70.33	4,219.68	17.88	21.10	1,265.90	5,485.58	
1.12	conectores Recto Lt de 1"	14.00	unidad	60.70	71.63	1,002.78	18.21	21.49	300.83	1,303.59	
1.13	curva IMC de 1"	7.00	unidad	138.00	160.48	1,123.36	40.80	48.14	337.01	1,460.37	
1.14	couplin IMC de 1"	18.00	unidad	39.00	46.02	828.36	11.70	13.81	248.51	1,076.87	
	Miscelaneos	1.00	PA			29,580.92				29,580.92	
	TOTAL									325,390.12	

2.00	Alimentación Panel control/ Luces Marquesina										
2.01	Alambre AWG THHN calibre #12/3	350	pies	31.14	36.75	12,880.82	9.34	11.02	3,858.25	16,739.07	
2.02	Tubería PVC sdr 26 1"	25	unidad	280.00	330.40	8,260.00	84.00	99.12	2,478.00	10,738.00	
2.03	Instalación luces marquesina	8	unidad	2,500.00	2,500.00	20,000.00	1,125.00	1,327.50		20,000.00	
2.04	Sello Cortafuego de 1" explosion proof	2	unidad	1,445.50	1,705.69	3,411.38	433.65	511.71	1,023.41	4,434.79	
2.05	Tubería IMC DE 1" - NIPLES DE 12"	4	unidad	125.00	147.50	590.00	37.50	44.25	177.00	767.00	
2.06	Tubería LT de 1"	15	pies	59.60	70.33	1,054.92	17.88	21.10	316.48	1,371.40	
2.07	conectores Recto Lt de 1"	8	unidad	60.70	71.63	573.01	18.21	21.49	171.90	744.91	
2.08	cajas 2*4 con su tapa 3/4	18	unidad	25.00	29.50	531.00	7.50	8.85	159.30	690.30	
2.09	couplin IMC de 1"	12	unidad	39.00	46.02	552.24	11.70	13.81	165.87	718.11	
2.10	conector U/F de 3/4	16	unidad	7.00	8.26	132.16	2.10	2.48	39.65	171.81	
2.11	Tubo Emt de 3/4	10	unidad	225.00	265.50	2,655.00	67.50	79.65	796.50	3,451.50	
2.12	conector EMT de 3/4	32	unidad	22.00	25.96	830.72	6.60	7.79	248.22	1,078.94	
2.13	Luces de marquesina cree	6	unidad	21,420.00	26,455.60	158,733.60	6,726.00	7,936.68	47,620.08	206,353.68	
	Miscelaneos	1.00	PA			26,724.09				26,724.09	
	TOTAL									293,964.33	

3.00	Alimentación panel control/ Luces Perimetrales										
3.01	Alambre AWG THHN calibre #12/3	25	pies	31.14	36.75	818.83	9.34	11.02	375.58	1,194.41	
3.02	Tubería PVC sdr 26 de 3/4 pig	43	unidad	170.00	200.60	8,625.80	51.00	60.14	2,587.74	11,213.54	
3.03	Instalación luces perimetrales (poste y spot light)	8	unidad	2,500.00	2,500.00	20,000.00	1,125.00	1,327.50		20,000.00	
3.04	Tubería EMT de 1"	15	unidad	390.00	460.20	6,903.00	117.00	138.06	2,100.90	8,973.90	
3.05	Registro EMT de octagonales	14	unidad	29.00	34.22	479.08	8.70	10.27	143.72	622.80	
3.06	Sello Cortafuego de 1" explosion proof	4	unidad	1,445.50	1,705.69	6,921.78	433.65	511.71	2,046.83	9,968.61	
3.07	Tubería LT de 1"	50	pies	59.60	70.33	3,516.40	17.88	21.10	1,011.00	4,527.40	
3.08	conectores Recto Lt de 1"	10	unidad	60.70	71.63	716.28	18.21	21.49	311.54	1,027.82	
3.09	Tubería IMC DE 1" - NIPLES DE 12"	12	unidad	125.00	147.50	1,770.00	37.50	44.25	531.00	2,301.00	



3.10	Tapas ciegas para cajas octagonales	14	unidad	19.00	27.42	313.88	5.70	6.73	94.16	608.04
3.11	couplin IMC de 1"	20	unidad	39.00	46.02	920.40	11.70	13.81	276.12	1,196.57
3.12	Registro 2"4 con tapa kockou de 1/4	137	unidad	25.00	29.50	4,041.50	7.50	8.85	1,212.45	5,253.95
3.13	tuberia pvc sdr 26 de 1	20	unidad	280.00	330.40	6,608.00	84.00	99.12	1,982.40	8,590.40
	Poste y base	8	unidad	12,850.00	15,363.00	121,304.00	1,855.00	4,548.00	36,391.20	157,650.20
	Lamparas perimetrales cree	8	unidad	37,840.00	38,751.20	310,009.60	9,852.00	11,625.36	93,002.88	403,012.48
	Miscelaneos	1.00	PA			6,348.34				6,348.34
TOTAL										641,182.44

4.00	Alimentacion panel control/ Letreros agua-aire									
4.01	Alambre AWG THHN calibre #12/3	300.00	pies	31.14	36.75	11,023.56	9.34	11.02	3,307.07	14,330.63
4.02	Tuberia PVC sdr 26 1 plg	20.00	unidad	280.00	330.40	6,608.00	84.00	99.12	1,982.40	8,590.40
4.03	Sello Cortafuego de 1" explotion proof	2.00	unidad	1,445.50	1,705.69	3,411.38	433.65	511.71	1,025.41	4,436.79
4.04	Tuberia LT de 1"	20.00	pies	59.60	70.33	1,406.56	17.88	21.10	421.57	1,828.53
4.05	conectores Recto Lt de 1"	8.00	unidad	60.70	71.63	573.01	18.21	21.49	171.90	744.91
4.06	Tuberia IMC DE 1"--- NIPLES DE 12"	8.00	unidad	125.00	147.50	1,180.00	37.50	44.25	354.00	1,534.00
4.07	couplin IMC de 1"	12.00	unidad	39.00	46.02	552.24	11.70	13.81	165.67	717.91
	Miscelaneos	1.00	PA			3,218.12				3,218.12
TOTAL										35,399.29

5.00	Alimentacion Motores Area tanque									
	Motores Dispendio/descarga: 4 motores de 5 HP, Alambre AWG THHN calibre 10/3	600	pies	71.00	83.78	50,268.00	21.30	25.13	15,080.40	65,348.40
5.01	Sello Cortafuego de 1" explotion proof	4	unidad	1,445.50	1,705.69	6,822.76	433.65	511.71	2,046.83	8,869.59
5.02	Tuberia PVC sdr 26 1 plg	26	unidad	280.00	330.40	8,590.40	84.00	99.12	2,577.12	11,167.52
5.03	Registro explotion Proof Nema 6P clase I grupo D	4	unidad	2,923.45	3,449.67	13,798.68	877.04	1,034.90	4,139.61	17,938.29
5.04	Tuberia flexible explosion proof 1/2 plg de diámetro y 12 plg. de largo con sus accesorios	4	unidad	8,791.00	10,373.38	41,493.52	2,637.39	3,112.01	12,448.06	53,941.58
5.05	Tuberia LT de 1"	35	pies	59.60	70.33	2,461.48	17.88	21.10	738.44	3,199.92
5.06	conectores Recto Lt de 1"	8	unidad	60.70	71.63	573.01	18.21	21.49	171.90	744.91
5.07	Tuberia IMC DE 1"--- NIPLES DE 12"	8	unidad	125.00	147.50	1,180.00	37.50	44.25	354.00	1,534.00
5.08	couplin IMC de 1"	28	unidad	39.00	46.02	1,288.56	11.70	13.81	386.57	1,675.13
	Miscelaneos	1.00	PA			8,220.97				8,220.97
TOTAL										172,640.30

6.00	Conexion Planta electrica / Transfer Automatico									
6.01	Alambre AWG THHN calibre # 3/0 negro 2 linea por fase para potenciales	275.00	pies	195.00	230.10	63,277.50	58.50	69.03	18,983.25	82,260.75
6.02	Alambre AWG THHN calibre #2/0 blanco 2 linea por fase para neutro	90.00	pies	185.00	218.30	19,647.00	55.50	65.49	5,894.10	25,541.10
6.03	Alambre AWG THHN calibre #6 verde 2 linea por fase	80.00	pies	38.12	44.98	3,598.53	11.44	13.49	1,079.56	4,678.09
6.04	Alambre AWG THHN calibre #10/2	100.00	pies	55.00	64.90	6,490.00	16.50	19.47	1,947.00	8,437.00
6.05	Tuberia liquid tight 3 plg	20.00	pies	290.00	342.20	6,844.00	87.00	102.66	2,053.20	8,897.20
6.06	Tuberia liquid tight 1 plg	10.00	pies	60.70	71.63	716.26	18.21	21.49	214.88	931.14
6.07	Enclosed Breaker con breaker TED 400 Amp/2 600v	1.00	unidad	18,500.00	21,830.00	21,830.00	5,550.00	6,549.00	6,549.00	28,379.00
6.08	Barra de tierra	1.00	unidad	410.00	483.80	483.80	123.00	145.14	145.14	628.94
6.09	Tuberia IMC de 3 plg niple de 3	2.00	unidad	3,683.00	4,345.94	8,691.88	1,104.90	1,303.78	2,607.56	11,299.44
6.10	tuberia PVC de 3"	4.00	unidad	1,695.00	2,000.10	8,000.40	508.50	600.03	2,400.12	10,400.52
6.11	Curva de PVC de 3	8.00	unidad	1,695.00	2,000.10	16,000.80	508.50	600.03	4,800.24	20,801.04
6.12	conector LT de 3	4.00	unidad	850.00	1,003.00	4,012.00	255.00	300.90	1,203.60	5,215.60
	Miscelaneos	1.00	PA			10,373.49				10,373.49
TOTAL										217,843.31

7.00	Conexion Transformador / Transfer Automatico									
7.01	Alambre AWG THHN calibre # 3/0 negro 2 linea por fase para potenciales	400.00	pies	195.00	230.10	92,040.00	58.50	69.03	27,612.00	119,652.00
7.02	Alambre AWG THHN calibre #2/0 blanco 2 linea por fase para neutro	200.00	pies	185.00	218.30	43,660.00	55.50	65.49	13,098.00	56,758.00
7.03	Tuberia PVC sdr 26 de 3 plg	20.00	unidad	1,695.00	2,000.10	40,002.00	508.50	600.03	12,000.50	52,002.50
7.04	Enclosed Breaker con breaker TED 400 Amp/2 600v	1.00	unidad	18,500.00	21,830.00	21,830.00	5,550.00	6,549.00	6,549.00	28,379.00
7.05	Terminales tipo Ojo	8.00	unidad	65.00	76.70	613.60	19.50	23.01	184.08	797.68
7.06	Barra de tierra	1.00	unidad	6,590.00	7,670.00	7,670.00	1,950.00	2,301.00	2,301.00	9,971.00
7.07	Tornillos 2 1/2 * 3/8 inox	4.00	unidad	79.00	93.22	372.88	23.79	27.97	111.86	484.74
7.08	Tuberia LT de 3	5.00	pies	290.00	342.20	1,711.00	87.00	102.66	513.30	2,224.30



7.09	Conector recto de 3 LT	4.00	unidad	850.00	1,003.00	4,012.00	255.00	300.90	1,203.60	5,215.60
7.10	coupling IMC de 3	2.00	unidad	318.00	375.24	750.48	95.40	112.57	225.14	975.62
7.11	Tubería IMC 3" Niple de 12"	8.00	unidad	3,683.00	4,345.94	34,767.52	1,104.90	1,303.78	10,430.26	45,197.78
7.12	Transformador 75 KVA 1ph Tipo Pad Mounted/220-110vac/Homologado	1.00	unidad	190,000.00	224,200.00	224,200.00	57,000.00	67,260.00	67,260.00	291,460.00
7.13	Curva de PVC de 3	8.00	unidad	1,695.00	2,000.10	16,000.80	508.50	600.03	4,800.24	20,801.04
7.14	Alambre AWG THHN calibre #2 verde	100.00	pies	95.55	112.75	11,274.90	28.67	33.82	3,382.47	14,657.37
7.15	Diseño y sometimiento de plano para transformador	1.00	unidad	70,000.00	82,600.00	82,600.00	21,000.00	24,780.00	24,780.00	107,380.00
7.16	Materiales de distribuidora y ejecución de instalación	1.00	unidad	25,000.00	29,500.00	29,500.00	7,500.00	8,850.00	8,850.00	38,350.00
	Miscelaneos	1.00	PA			79,430.67				79,430.67
TOTAL										873,737.41

8.00	Canalización Comunicación verifones/ servicio CLARO y Tricom/ Camaras de seguridad									
8.01	Tubería PVC sdr 26 de 1 plg. comunicación Verifones	35.00	unidad	280.00	330.40	11,564.00	84.00	99.12	3,469.20	15,033.20
8.02	Tubería PVC sdr 26 de 2 plg. Servicio CLARO /musica	20.00	unidad	850.00	1,003.00	20,060.00	255.00	300.90	6,018.00	26,078.00
8.03	Tubería PVC sdr 26 de 1/2 plg. Para salida cama/ musica y especial	180.00	unidad	115.00	135.70	24,426.00	34.50	40.71	7,327.80	31,753.80
8.04	Tubería IMC de 2 pulg. Niple Servicio CLARO y TRICOM	2.00	unidad	1,480.00	1,746.40	3,492.80	444.00	523.92	1,047.84	4,540.64
8.05	Tubería IMC de 1 Niple pulg comunicación verifones	8.00	unidad	682.00	804.76	6,438.08	204.60	241.43	1,931.42	8,369.50
8.06	Tubería PVC sdr 26 de 1/2 plg. Cámaras de seguridad	25.00	unidad	115.00	135.70	3,392.50	34.50	40.71	1,017.75	4,410.25
8.07	REGISTRO METALICO 12" X 12" X 12"	3.00	unidad	450.00	531.00	1,593.00	135.00	159.30	477.90	2,070.90
8.08	REGISTRO METALICO 18" X 18" X 6"	2.00	unidad	790.00	932.20	1,864.40	237.00	279.66	559.32	2,423.72
8.09	Registro explosion Proof Nema 6P clase I grupo D	4.00	unidad	2,923.45	3,449.67	13,798.68	877.04	1,034.90	4,139.61	17,938.29
8.10	Sello Cortafuego de 1" explosion proof	1.00	unidad	1,445.50	1,705.69	1,705.69	433.65	511.71	511.71	2,217.40
8.11	Tubería liquid tight 1 plg	15.00	pies	60.70	71.63	1,074.39	18.21	21.49	322.32	1,396.71
8.12	Tubería liquid tight 2 plg	15.00	pies	110.00	129.80	1,947.00	33.00	38.94	584.10	2,531.10
8.13	Conector LT recto de 2"	4.00	unidad	390.00	460.20	1,840.80	117.00	138.06	552.24	2,393.04
8.14	Conector LT recto de 1"	2.00	unidad	60.70	71.63	143.25	18.21	21.49	42.98	186.23
8.15	cajas 2*4 xon su tapa nockou de 1/2 (Camara /musica/ Salida especial)	50.00	unidad	25.00	29.50	1,475.00	7.50	8.85	442.50	1,917.50
8.16	Tubería EMT de 1/2 para musica	15.00	unidad	210.00	247.80	3,717.00	63.00	74.34	1,115.10	4,832.10
8.17	Conector EMT de 1/2	24.00	unidad	15.00	17.70	424.80	4.50	5.31	127.44	552.24
8.18	copuplin emt	30.00	unidad	15.00	17.70	531.00	4.50	5.31	159.30	690.30
	Miscelaneos	1.00	PA			12,933.49				12,933.49
TOTAL										142,268.41

9.00	MISCELANEOS									
9.01	Tornillos tirafondo	200.00	unidad	2.00	2.36	472.00	0.60	0.71	141.60	613.60
9.02	Channel strut	15.00	unidad	590.00	696.20	10,443.00	177.00	208.86	3,132.90	13,575.90
9.03	Grapas strut	150.00	unidad	12.00	14.16	2,124.00	3.60	4.25	637.20	2,761.20
9.04	Tape	5.00	unidad	344.00	405.92	2,029.60	103.20	121.78	608.88	2,638.48
9.05	Tornillo HKI y HDI	250.00	unidad	17.00	20.06	5,015.00	5.10	6.02	1,504.50	6,519.50
9.06	Conectores Wire nut	200.00	unidad	4.00	4.72	944.00	1.20	1.42	283.20	1,227.20
9.07	Cinta plástica señal peligro	0.50	unidad	250.00	295.00	147.50	75.00	88.50	44.25	191.75
9.08	PVC lata	1.00	unidad	375.00	442.50	442.50	112.50	132.75	132.75	575.25
9.09	Tape de goma	3.00	unidad	800.00	944.00	2,832.00	240.00	283.20	849.60	3,681.60
9.10	Soga para sondear	100.00	libra	250.00	295.00	29,500.00	75.00	88.50	8,850.00	38,350.00
9.11	Car	5.00	libra	150.00	177.00	885.00	45.00	53.10	265.50	1,150.50
9.12	Abrazaderas	200.00	unidad	15.00	17.70	3,540.00	4.50	5.31	1,062.00	4,602.00
9.13	Tarugos	200.00	unidad	7.00	8.26	1,652.00	2.10	2.48	495.60	2,147.60
9.14	chico	10.00	libras	4,720.00	5,569.60	55,696.00	1,416.00	1,670.88	16,708.80	72,404.80
9.15	Estopa	5.00	libras	50.00	59.00	295.00	15.00	17.70	88.50	383.50
TOTAL										150,822.88

10.00	OFICINA, FOOS SHOP, CUARTO DE PLANTA, CUARTO ELECTRICO Y CUARTO DE BOMBAS									
10.01	Instalacion de Salida de tomacorriente 110vac	40	UND	1,667.20	1,667.20	66,688.00	500.16	590.19		
10.02	Instalacion de Salida de tomacorriente 220vac para A/C	10	UND	1,990.74	1,990.74	19,907.40	597.22	704.72		
10.03	Instalacion de Salida de interruptores sencillos	12	UND	1,243.11	1,243.11	14,917.32	372.93	440.06		



10.04	Instalacion de Salida de interruptores 3w	3	PA	1,829.39	1,829.39	5,697.97	548.76	607.98		5,487.07
10.05	Instalacion de Salida de luminarias	50	PA	1,210.74	1,210.74	23,027.00	461.22	525.66		22,601.60
10.06	Instalacion de Salida de UPS	10	PA	1,210.98	1,210.98	24,220.80	472.23	539.69		23,749.80
10.07	Instalacion de Salida de data	25	PA	1,610.98	1,610.98	21,144.25	441.29	509.69		20,693.25
10.08	Alambre AWG #12 para alimentacion 110vac oficina (negro y blanco) luminacion	3500.00	Pies	8.15	9.69	28,750.80	2.40	2.89	30,630.24	27,813.06
10.09	Alambre AWG #12 para alimentacion 110vac oficina (negro y blanco) toma corriente	2500.00	Pies	8.15	9.69	24,072.00	2.40	2.89	25,236.60	22,293.60
10.10	Alambre AWG #12 para alimentacion 220vac oficina	750.00	Pies	8.15	9.69	6,240.15	2.40	2.89	6,922.05	6,262.25
10.11	Alambre AWG #14 verde para puesta a tierra	1000.00	Pies	6.85	8.08	8,080.00	2.56	2.82	8,618.80	10,007.80
10.12	Alambre AWG #12 para alimentacion 110vac oficina inversor true online	500.00	Pies	8.15	9.69	4,244.40	2.40	2.89	4,466.02	5,208.72
10.13	Tubo PVC SDR 26 de 1/2	250.00	unidad	95.00	112.00	28,000.00	28.00	33.60	8,667.00	30,472.00
	Miscelaneos	1.00	PA			3,528.74				3,528.74
	TOTAL									906,696.04

11.00	SISTEMA DE TIERRA									
11.01	Alambre Robin 2/0	900	Pies	227.00	267.85	85,504.00	68.00	80.06	26,007.40	104,465.40
11.02	Alambre St. Tkn fls. 6 Verde	60	Pies	38.12	44.98	2,698.90	51.44	58.49	895.67	3,058.00
11.03	Pozo para puesta a tierra	2	Ud	64,546.00	78,024.28	107,088.00	19,860.80	23,007.28	47,254.07	256,360.33
11.04	Varilla de tierra	6	Ud	410.00	480.20	2,902.80	123.00	145.54	835.84	3,779.64
11.05	Terminal Tipo Cjo No. 2/0	10	Ud	75.00	88.00	880.00	22.00	26.00	260.00	1,050.00
11.06	Terminal Tipo Cjo No. 6	10	Ud	75.00	88.00	880.00	22.00	26.00	260.00	1,050.00
11.07	Tornillos con Tuercas y Arandelas de presion 1/2 x 5/8	10	Ud	40.00	59.30	593.00	18.00	20.89	199.80	590.80
11.08	Tornillos con Tuercas y Arandelas de presion 5/16 x 5/8	10	Ud	40.00	59.30	593.00	18.00	20.89	199.80	590.80
11.09	Barra Master Ground Pequena	3	Ud	6,500.00	7,870.00	23,010.00	1,900.00	2,300.00	6,900.00	29,910.00
11.10	Fundentes 90	10	Ud	297.00	350.44	3,254.90	89.00	105.54	1,877.07	6,883.97
11.11	Macilla para Fundentes	3	Ud	1,200.00	1,410.00	4,248.00	860.00	1,024.80	1,274.80	5,522.80
11.12	Mineral Ultra Fit 50 lbs	3	Ud	6,200.00	8,775.00	10,528.00	960.00	1,132.80	1,388.40	14,726.40
11.13	Sol en grano seco	3	Ud	700.00	826.00	2,478.00	210.00	247.80	743.40	3,221.40
11.14	Carbon seco	3	Ud	700.00	826.00	2,478.00	210.00	247.80	743.40	3,221.40
11.15	Tierra negra sano	3	Ud	700.00	826.00	2,478.00	210.00	247.80	743.40	3,221.40
	Miscelaneos	1.00	PA			7,725.00				7,725.00
	TOTAL									889,877.85

12.00	Suministro e Instalacion UPS True online 2 lvs 110 voltios	1.00	unidad							
12.01	Supresor de picos industrial de 3kw, 208/240v	1.00	unidad	85,000.00	41,800.00	41,800.00	10,500.00	12,890.00	12,890.00	58,690.00
	Miscelaneos	1.00	PA			1,800.00				1,800.00
	TOTAL									58,690.00

13.00	PANELES ELECTRICOS Y CONTROL									
13.01	Transfer switch (Eaton, Schneider, GE, Siemens) de 500 amp con monitor de voltaje, amperimetro, voltmetro, luces indicadoras, embarrado de 500 amp	1	Ud	120,000.00	141,600.00	141,600.00	12,000.00	14,080.00	14,080.00	255,760.00
13.02	Contacto de 60 amperes (Eaton, Schneider, GE, Siemens) para Sistema Contra Incendios	1	Ud	18,000.00	10,340.00	10,340.00	1,800.00	1,534.00	1,534.00	14,874.00
13.03	Panel board General Electric de 24 circuitos	1	Ud	23,900.00	28,202.00	21,900.00	2,890.00	2,820.20	2,820.20	26,720.20
13.04	Panel board General Electric de 12 circuitos	1	Ud	12,900.00	15,222.00	12,900.00	1,290.00	1,522.20	1,522.20	14,422.20
13.05	Panel board General Electric de 12 circuitos ups	4	Ud	13,900.00	16,402.00	11,500.00	1,890.00	1,840.20	6,540.80	62,100.80
13.06	Gabinete metalico en tola de 1/18vo de pulg. NEMA 1R 36"X 36"X 12" para control de bombas y luces, con sus luces indicadoras, selectores.	1	Ud	40,500.00	47,790.00	40,500.00	4,050.00	4,779.00	4,779.00	531.00
13.07	Bigas mecanico con dos (2) breakers de 30amp	1	Ud	4,500.00	5,310.00	4,500.00	450.00	581.00		



13.08	Breaker General Electric THQL 15 amp/1	18	Ud	320.00	377.60	5,760.00	32.00	37.76	679.68	6,439.68
13.09	Breaker General Electric THQL 10 amp/1	12	Ud	320.00	377.60	3,840.00	32.00	37.76	453.12	4,293.12
13.10	Breaker General Electric THQL 20 amp/1	4	Ud	320.00	377.60	1,280.00	32.00	37.76	151.04	1,431.04
13.11	Breaker General Electric THQL 20 amp/2	6	Ud	320.00	377.60	1,920.00	32.00	37.76	226.56	2,146.56
13.12	Breaker General Electric THQL 30 amp/1	6	Ud	580.00	684.40	3,480.00	58.00	68.44	410.64	3,890.64
13.13	Breaker General Electric THQL 30 amp/2: AIRES Y SALIDAS 220	10	Ud	580.00	684.40	5,800.00	58.00	68.44	684.40	6,484.40
13.14	Breaker General Electric THQL 25 amp/2	1	Ud	580.00	684.40	580.00	58.00	68.44	68.44	648.44
13.15	Breaker General Electric THQL 40 amp/2	5	Ud	1,400.00	1,652.00	7,000.00	140.00	165.20	826.00	7,826.00
13.16	Breaker General Electric THQL 60 amp/3	3	Ud	1,500.00	1,770.00	4,500.00	150.00	177.00	531.00	5,031.00
13.17	Breaker General Electric THQL 50 amp/2	4	Ud	1,400.00	1,652.00	5,600.00	140.00	165.20	660.80	6,260.80
13.18	Contactor de 20 amperes (Eaton, Schneider, GE, Siemens)	3	Ud	5,600.00	6,608.00	16,800.00	560.00	660.80	1,982.40	18,782.40
13.19	Contactor de 25 amperes (Eaton, Schneider, GE, Siemens)	1	Ud	5,600.00	6,608.00	5,600.00	560.00	660.80	660.80	6,260.80
13.20	Contactor de 30 amperes (Eaton, Schneider, GE, Siemens)	1	Ud	7,900.00	9,322.00	7,900.00	790.00	932.20	932.20	8,832.20
13.21	Contactor de 40 amperes (Eaton, Schneider, GE, Siemens)	2	Ud	7,900.00	9,322.00	15,800.00	790.00	932.20	1,864.40	17,664.40
13.22	Timer semanal	2	Ud	7,500.00	2,950.00	5,000.00	250.00	295.00	590.00	5,590.00
13.23	Contactor 25amp 220vac, 5hp bomba de combustible	4	Ud	5,600.00	6,608.00	22,400.00	560.00	660.80	2,643.20	25,043.20
13.24	Pantalla HDI 10"	1	Ud	60,000.00	70,800.00	60,000.00	6,000.00	7,080.00	7,080.00	67,080.00
13.25	Transformador de 1 kva 110/220 para dispensadores	1	Ud	12,000.00	14,160.00	12,000.00	1,200.00	1,416.00	1,416.00	13,416.00
13.26	Power supply de 24 voltios	1	Ud	25,000.00	29,500.00	25,000.00	2,500.00	2,950.00	2,950.00	27,950.00
13.27	Relay de control 24 voltios	20	Ud	860.00	1,014.80	20,296.00	86.00	101.48	2,029.60	22,325.60
13.28	Supresor de pico	1	Ud	34,000.00	40,120.00	40,120.00	3,400.00	4,012.00	4,012.00	44,132.00
13.29	PLC de 24 in/out (Eaton/Schneider/ GE)	1	Ud	45,000.00	53,100.00	53,100.00	4,500.00	5,310.00	5,310.00	58,410.00
13.30	Borneras de conexión	50	Ud	55.00	64.90	3,245.00	5.50	6.49	324.50	3,569.50
13.31	Luces indicadoras	3	Ud	650.00	767.00	2,301.00	65.00	76.70	230.10	2,531.10
13.32	Ensamble / cableado y programación	1	Ud	100,000.00	118,000.00	118,000.00	10,000.00	11,800.00	11,800.00	129,800.00
13.33	Ingeniería y Transporte	1	Ud	85,000.00	76,700.00	76,700.00	6,500.00	7,670.00	7,670.00	84,370.00
	Miscelaneos	1.00	PA			45,322.80	-			45,322.80
TOTAL										951,778.88

14.00	MANO DE OBRA ELECTRICA									
14.01	INSTALACION MECANICA Y ELECTRICA DE GENERADOR ELECTICO 75 KVA	1.00	unidad	80,000.00	80,000.00	80,000.00	36,000.00	42,480.00		80,000.00
TOTAL										80,000.00

15.00	CANALIZACION DE PANELES SOLARES									
15.01	TUBERIA PVC DE 3"	5.00	unidad	1,695.00	2,000.10	10,000.50	508.50	600.03	3,000.15	13,000.65
15.02	CURVA pvc de 3"	2.00	unidad	146.00	172.28	344.56	43.80	51.68	103.37	447.93
15.03	NIPLE de 3" de 12" de largo	2.00	unidad	600.00	708.00	1,416.00	180.00	212.40	424.80	1,840.80
15.04	Soga de guia	1.00	Rollo	250.00	295.00	295.00	75.00	88.50	88.50	383.50
15.05	REGISTRO METALICO 18" X 18" X 6"	1.00	unidad	250.00	295.00	295.00	75.00	88.50	88.50	383.50
15.06	tuberia EMT de 3	1.00	unidad	1,850.00	2,183.00	2,183.00	555.00	654.90	654.90	2,837.90
15.07	Conector EMT de 3	1.00	unidad	350.00	413.00	413.00	105.00	123.90	123.90	536.90
15.08	tuberia LT de 3	5.00	pies	290.00	342.20	1,711.00	87.00	102.66	513.30	2,224.30
15.09	Conector recto de 3 LT	2.00	unidad	850.00	1,003.00	2,006.00	255.00	300.90	601.80	2,607.80
15.10	coupling IMC de 3	2.00	unidad	318.00	375.24	750.48	95.40	112.57	225.14	975.62
	Miscelaneos	1.00	PA			10,523.89				10,523.89
TOTAL										115,762.79

16.00	Sistema Contra Incendio									
16.01	Alambre AWG THHN calibre #6	200.00	pies	38.12	44.98	8,896.32	11.44	13.48	2,698.90	11,595.22
16.02	Alambre AWG THHN calibre #8 blanco	60.00	pies	22.50	26.55	1,593.00	6.75	7.97	477.90	2,070.90
16.04	Alambre AWG THHN calibre #10 verde	60.00	pies	13.12	15.48	928.80	3.94	4.62	187.08	1,115.88
16.04	Alambre AWG THHN calibre #10/3 para bomba jockey	35.00	pies	72.00	84.96	2,973.60	21.60	25.49	897.05	3,865.65

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16.05	Alambre AWG THHN calibre #18/4	35.00	pies	59.29	81.76	2,860.68	25.79	34.53	858.50	2,325.38
16.06	Tubería IMC 2" triple	2.00	unidad	1,480.00	1,748.40	3,492.80	444.00	529.30	1,047.80	4,540.60
16.07	panel de 12 circuito	1.00	unidad	12,000.00	14,700.00	24,790.00	3,750.00	4,425.00	4,425.00	28,270.00
16.08	Tubería pvc de 2 pulg	3.00	unidad	800.00	1,000.00	3,000.00	200.00	350.00	350.00	3,900.00
16.09	Tubería LT de 2"	12.00	pies	185.00	222.00	2,409.60	55.00	60.49	785.88	2,805.48
16.10	conector LT de 2	2.00	unidad	390.00	468.00	920.40	127.00	138.04	276.22	1,096.20
16.11	variador de velocidad de 20 hp 220 con su Gabinete	1.00	unidad	74,000.00	87,320.00	87,320.00	22,200.00	26,036.00	26,036.00	103,516.00
16.12	Gabinete 300*400*200	1.00	unidad	5,000.00	5,900.00	5,900.00	1,000.00	1,270.00	1,270.00	7,670.00
16.13	Alambre de control 16/8	120.00	pies	59.29	81.76	9,811.46	20.79	24.33	2,943.44	12,754.90
16.14	Tubería LT de 1"	15.00	pies	59.80	70.35	1,054.50	17.88	21.05	306.48	1,070.40
16.15	conector recto Lt de 1	1.00	unidad	60.70	71.43	71.43	18.23	21.49	21.49	89.20
16.16	conector curvo Lt de 1	1.00	unidad	106.00	125.67	125.67	30.95	37.70	37.70	189.27
	Miscelaneos	1.00	PA			17,038.40				17,038.40
	TOTAL									207,896.06

PRESUPUESTO MECANICO

17.00	Instalacion Mecanica									
17.01	UPP 50 MM (1 1/2") Tubería coaxial 100 M (328.1') (FFS -	200.00	unidad	300.00	390.00	104,000.00	150.00	177.00	35,400.00	159,400.00
17.02	UPP(EN) Se vende por pie lineal) UPP Acople Soldable 50 mm - Largo (FFS - UPP(EN))	16.00	unidad	1,339.00	1,580.62	25,280.32	401.70	474.01	7,584.10	32,864.42
17.03	UPP Codo de 90 para tubería de 50 mm 1 1/2" (FFS - UPP(EN))	4.00	unidad	2,000.00	2,360.00	9,440.00	600.00	708.00	2,832.00	12,272.00
17.04	UPP "T" de 50 mm (FFS - UPP(EN))	4.00	unidad	2,500.00	2,950.00	11,800.00	750.00	880.00	3,540.00	15,340.00
17.05	UPP Sello anillo de fusion para tubería 1 1/2" coaxial (FFS -	16.00	unidad	3,167.00	3,787.04	59,792.96	950.00	1,121.12	17,937.89	77,730.85
17.06	UPP(EN)) UPP Reductor electrofusion 63/50 mm con puerto de prueba (FFS	16.00	unidad	3,310.00	3,905.80	62,492.80	993.00	1,171.74	18,747.84	81,240.64
17.07	- UPP(EN)) UPP Terminacion PE y laton niquelado de 1 1/2" x 1 1/2" hembra	8.00	unidad	3,640.00	4,295.20	34,360.60	1,092.00	1,288.56	10,308.48	44,670.08
17.08	NPT (FFS - UPP(EN)) UPP Union montaje de transicion, 50 mm x 1 1/2 rosca hembra npt	4.00	unidad	3,900.00	4,602.00	18,408.00	1,170.00	1,380.60	5,522.40	23,930.40
17.09	(FFS - UPP(EN)) APT Bota flexible para conduleta electrica 3/4" y 1" (FFS - APT)	4.00	unidad	2,900.00	3,422.00	13,688.00	870.00	1,026.60	4,106.40	17,794.40
17.10	UPP SUMP - Sump para base de Ovacion 38"x15" - altura 31"	2.00	unidad	41,900.00	49,442.00	98,884.00	12,570.00	14,832.60	29,665.20	128,549.20
17.11	APT Juego de barra estabilizadora	8.00	unidad	3,779.00	4,459.22	35,673.76	1,193.70	1,337.77	10,702.13	46,375.89
17.12	Manguera Flexible 1 1/2 x 1 1/2	8.00	unidad	3,245.00	3,829.10	30,632.80	973.50	1,148.73	9,189.84	39,822.64
17.13	1-1/2" NPT Single poppet, pressure, Emergency shut-off valves,	8.00	unidad	7,082.00	8,356.76	66,854.08	2,124.80	2,507.03	20,056.22	86,910.30
17.14	male threaded top outlet (EMCO) APT Registro para tanque de 36" x 47", para contencion de	4.00	unidad	41,900.00	49,442.00	197,768.00	12,570.00	14,832.60	59,330.40	257,098.40
17.15	derrames de una sola pieza APT Adaptador de conexion para tanques, 4" NPT (FFS - APT)	4.00	unidad	13,000.00	15,340.00	61,360.00	3,900.00	4,602.00	18,408.00	79,768.00
17.16	Manhole de 39" con faldon de 10" Emco	4.00	unidad	40,500.00	47,790.00	191,160.00	12,150.00	14,337.00	57,348.00	248,508.00
17.17	EBW- Tubo de gota de aluminio 4" x 12" (Sistema de Presion) (FFS	4.00	unidad	6,581.00	7,765.58	31,062.32	1,974.30	2,329.67	9,318.70	40,381.02
17.18	- EBW) UPP Tubería 2" simple 19.03'	152.24	unidad	351.00	414.18	63,054.76	105.30	124.25	18,916.43	81,971.19
17.19	UPP Acople soldable 2"	8.00	unidad	1,880.00	2,218.40	17,747.20	564.00	665.52	5,324.16	23,071.36
17.20	UPP 63 MM (2") codo de 90	12.00	unidad	2,113.00	2,493.34	29,920.08	633.90	748.00	8,976.02	38,896.10
17.21	UPP Terminal 2"x2" NPT	4.00	unidad	3,350.00	3,953.00	15,812.00	1,005.00	1,185.90	4,743.60	19,555.60
17.22	UPP Terminacion, Pe y laton niquelado, 63MM (2") hembra npt	4.00	unidad	3,200.00	3,776.00	15,104.00	960.00	1,132.80	4,531.20	19,635.20
17.23	ZEPPINI Boca de Inspeccion de 12" con anillo y tapa en hierro	4.00	unidad	5,650.00	6,667.00	26,668.00	1,695.00	2,000.10	8,000.40	34,668.40
17.24	fundido (Manhole de 12" tapa de hierro) 4" Screw On Pipe Cap	4.00	unidad	2,725.00	3,215.50	12,862.00	817.50	964.65	3,852.00	16,720.60



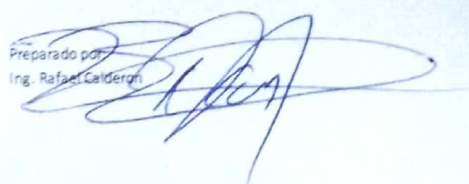
17.25	EBW Tubo perforado de 4" x 13' en PVC para pozos de inspeccion	2.00	unidad	10,328.00	12,187.04	24,374.08	3,098.40	3,656.11	7,312.22	91,886.90
17.26	EBW Tapa de nylon de 4 pulgadas para pozos de monitoreo	2.00	unidad	2,709.00	3,196.62	6,393.24	812.70	958.99	1,817.97	8,311.21
17.27	FE PETRO, Bomba sumergible 3/4 HP, largo variable, monofasica	3.00	unidad	81,500.00	96,170.00	288,510.00	24,450.00	28,851.00	86,553.00	275,063.00
17.28	60 HZ (FFS - FE-PETRO-S1) ZEPPINI Conector flexible 2"x20"x1 1/2" MF/MF en acero	3.00	unidad	9,850.00	11,628.00	34,869.00	2,955.00	3,486.90	10,466.70	65,229.70
17.29	Inoxidable Emco Wheaton Contenedor para derrame de 5 gls, con valvula de	3.00	unidad	26,500.00	31,270.00	93,810.00	7,950.00	9,381.00	28,143.00	121,953.00
17.30	drenaje en la toma de llenado, material de base y tapa, hierro fundido (EMCO WHEATON) UPP Codo 45 63 MM (2") para tuberia de 63 mm	3.00	unidad	1,948.00	2,298.64	6,895.92	584.40	689.59	2,068.78	8,964.70
17.31	BRASS 4"NPSM X 4"CAM FILL Adaptor (EMCO)	3.00	unidad	3,742.00	4,415.56	13,246.68	1,122.60	1,324.67	3,974.00	17,220.68
17.32	TIGHT FILL CAP 4" (EMCO)	3.00	unidad	2,763.00	3,260.34	9,781.02	828.90	978.10	2,934.31	12,715.33
17.33	Ball Float Vent Valve, 2" x 6.87" (Pressure System only) 1/16" BH (EMCO)	3.00	unidad	3,166.00	3,735.88	11,207.64	949.80	1,120.76	3,362.29	14,569.99
17.34	Extractor tee 4"x2"x4"	3.00	unidad	6,727.00	7,937.86	23,813.38	2,018.10	2,381.36	7,144.07	30,957.65
17.35	2" Tank Vent Cap, Aluminum (FFS - EBW)	3.00	unidad	1,721.00	2,030.78	6,092.34	516.30	609.23	1,827.70	7,920.04
17.36	Manhole 18"- faldon 10"	3.00	unidad	9,735.00	11,487.30	34,461.90	2,920.50	3,446.19	10,338.57	44,800.47
17.37	EBW Boca de inspeccion de 10" para monitoreo de agua	2.00	unidad	8,712.00	10,280.16	20,560.32	2,613.60	3,084.05	6,168.10	26,728.42
17.38	FE PETRO Caja de control con Interruptor de seguridad para	3.00	unidad	7,800.00	9,204.00	27,612.00	2,340.00	2,761.20	8,283.60	35,895.60
17.39	bombas de 3/4 y 1 1/2 hp (FFS - FE-PETRO)	3.00	unidad	4,911.00	5,794.98	17,384.94	1,473.30	1,738.49	5,215.48	22,600.42
17.40	2" Ball Valve, Full Port, Threaded (OPW) ELECTRICAL SEAL UNIT 1" AC	12.00	unidad	1,197.00	1,412.46	16,949.52	359.10	423.74	5,084.86	22,034.38
17.41	Tanque 12000 GLS 96 X 384 en tola de 1/4 (forrado en fibra)	2.00	unidad	802,110.00	946,489.80	1,892,979.60	240,633.00	283,946.94	567,893.88	2,460,873.48
17.42	Bomba de suministro	1.00	unidad	79,350.00	93,633.00	93,633.00	23,805.00	28,089.90	28,089.90	121,722.90
17.43	SUMINISTRO E INSTALACION MECANICA Y ELECTRICA DE DISPENSADORES	1.00	unidad	611,730.99	721,842.57	721,842.57	108,276.39	127,766.13	127,766.13	849,608.70
	Miscelaneos	1.00	PA			100,630.44				100,630.44
TOTAL						8,751,596.43				5,981,761.04

Nota:

Precios sujetos a variación por tasa del dólar en productos importados.

Los materiales de Importacion solo se esta cobrando mano de obras

Preparado por:
Ing. Rafael Calderon




Gastos Directos

Sub-Total General	8,751,596.43
Mano de Obra	2,168,283.72
Total Neto	10,919,880.16

Gastos Indirectos

Dirección Técnica	1,091,989.02
Itbis Dirección Técnica	196,558.02
Transporte	327,396.70
Gastos Administrativos	109,198.90
Otros	54,539.45
Total Gastos Indirectos	1,779,942.10

TOTAL GENERAL	12,699,832.25
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