ITEM / DESCRIPCIÓN	UNIDAD	CANTIDAD	ICONYP S.A.S	VASA S.A.S	IRVING S.A.S	DIAZ INGENIERIA Y CONSULTORIA	VALOR UNITARIO DE REFERENCIA	CANTIDAD X VALOR UNITARIO
01. MATERIALES PÉTREOS Y AGREGADOS								
ARENA	m³	101.171741	162,000.	146,000.	144,000.	164,000.	$ 154,000.00	$ 15,580,448.13
GRAVA	m³	149.58	228,000.	216,000.	212,000.	224,000.	$ 220,000.00	$ 32,907,600.00
PIEDRA 3-5 "	m³	7.44	125,000.	123,000.	115,000.	113,000.	$ 119,000.00	$ 885,360.00
RECEBO	m³	35.00	81,000.	88,000.	80,000.	87,000.	$ 84,000.00	$ 2,940,000.00
PIEDRA PARA GAVIÓN 4-8"	m³	43.50	212,000.	194,000.	201,000.	205,000.	$ 203,000.00	$ 8,830,500.00
02. CEMENTANTES, MORTEROS Y CAL								
CEMENTO	Bulto	1,360.05	42,500.	38,800.	39,000.	38,500.	$ 39,700.00	$ 53,993,985.00
CAL X BULTO DE 25 KG	Bulto	6.00	27,650.	26,900.	28,250.	26,400.	$ 27,300.00	$ 163,800.00
03. ACERO DE REFUERZO Y MALLAS PARA CONCRETO								
ACERO #4 1/2	kg	2,117.21	5,990.	6,700.	5,950.	6,740.	$ 6,345.00	$ 13,433,697.45
ACERO #3 3/8	kg	639.28	5,990.	6,700.	5,950.	6,740.	$ 6,345.00	$ 4,056,231.60
FLEJES 15X20 EN ACERO #3	und	780.00	5,830.	5,930.	5,580.	6,180.	$ 5,880.00	$ 4,586,400.00
FLEJES 25X25 EN ACERO #3	und	32.00	9,190.	7,940.	8,040.	8,990.	$ 8,540.00	$ 273,280.00
MALLA ELECTROSOLDADA 6,0MM X 6MTS	und	30.00	264,000.	282,000.	296,000.	278,000.	$ 280,000.00	$ 8,400,000.00
MALLA ELECTROSOLDADA 4,0MM X 6MTS	und	14.00	113,000.	106,000.	118,000.	111,000.	$ 112,000.00	$ 1,568,000.00
ALAMBRE NEGRO	kg	152.98	12,800.	12,150.	12,200.	10,450.	$ 11,900.00	$ 1,820,462.00
04. GAVIONES Y GEOSINTÉTICOS								
GEOTEXTIL NO TEJIDO	m²	88.00	5,850.	5,600.	6,000.	4,950.	$ 5,600.00	$ 492,800.00
MALLA GAVIÓN CALIBRE 12. 2 X 1 X 1	Und	11.00	246,554.	235,350.	238,050.	274,654.	$ 248,652.00	$ 2,735,172.00
MALLA GAVIÓN CALIBRE 12. 1 X 1 X 1	Und	30.00	121,850.	106,350.	124,266.	108,550.	$ 115,254.00	$ 3,457,620.00
05. ESTRUCTURA METÁLICA Y PERFILES								
TUBO RECTANGULAR 80X40 X 3MM	Und	8.00	223,350.	235,050.	221,350.	276,050.	$ 238,950.00	$ 1,911,600.00
PERFILES CUADRADO DE 100 X 100 X 3MM	Und	4.00	394,620.	400,620.	408,120.	487,120.	$ 422,620.00	$ 1,690,480.00
TUBO RECTANGULAR 60X40 X 2MM	Und	1.00	122,100.	116,000.	113,600.	113,900.	$ 116,400.00	$ 116,400.00
TUBO RECTANGULAR 100X50 X 2MM	Und	26.00	247,000.	251,000.	250,000.	248,000.	$ 249,000.00	$ 6,474,000.00
PLATINA 15 X 15	Und	14.00	20,850.	18,750.	18,800.	20,000.	$ 19,600.00	$ 274,400.00
Tubo 100 x 50 - 2mm	Und	0.00	301,570.	306,870.	324,770.	272,670.	$ 301,470.00	$ 0.00
Tubo 76 x 38 - 1.5mm	Und	35.00	112,660.	126,660.	116,160.	122,768.	$ 119,562.00	$ 4,184,670.00
Tubo Rectangular 3" 1 1/2" Cal 18 81.10MM) x6 mtrs (correas)	Und	8.00	93,000.	89,000.	92,000.	90,000.	$ 91,000.00	$ 728,000.00
Angulos 2 1/2" x 3/16"	Und	7.00	222,000.	225,000.	237,000.	240,000.	$ 231,000.00	$ 1,617,000.00
Tubo estructural 100 X 100 Cal.2.5 mm x 6M (columnas)	Und	2.00	327,000.	317,000.	305,000.	339,000.	$ 322,000.00	$ 644,000.00

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06. CUBIERTAS, CANALES Y EVACUACIÓN DE AGUAS LLUVIAS								
TEJA ARQUITECTONICA 1x6m Cal 30	Und	42.00	174,000.	179,000.	176,000.	171,000.	$ 175,000.00	$ 7,350,000.00
Canal 6 m Galvanizada D-40 0.70 mm	Und	5.00	295,000.	333,000.	335,000.	297,000.	$ 315,000.00	$ 1,575,000.00
Juego de tapas canal metalico izquierdo y derecho	Und	5.00	10,860.	11,710.	12,710.	11,760.	$ 11,760.00	$ 58,800.00
Ganchos Galvanizados	Und	24.00	20,550.	23,750.	20,750.	24,550.	$ 22,400.00	$ 537,600.00
Caballete UPVC Azul 0.40x1.07m 2mm Klar	Und	8.00	85,000.	79,000.	83,000.	89,000.	$ 84,000.00	$ 672,000.00
Caballete	Und	7.00	34,600.	32,600.	30,400.	31,200.	$ 32,200.00	$ 225,400.00
TEJA ARQUITECNONICA 5*1	Und	14.00	159,500.	145,600.	160,000.	128,500.	$ 148,400.00	$ 2,077,600.00
Tubo Rectangular 4" 1 1/2" Cal 18 81.10MM) x6 mtrs (bajantes)	Und	2.67	111,000.	116,000.	113,000.	108,000.	$ 112,000.00	$ 299,040.00
Adaptador Bajante a 3 Pulgadas	Und	1.00	9,850.	8,700.	8,650.	9,200.	$ 9,100.00	$ 9,100.00
Teja Zinc Ondulada 3 x 0.815m Cal 35	Und	10.00	37,000.	33,000.	36,000.	34,000.	$ 35,000.00	$ 350,000.00
Tornillo Autoperforante 10 x 2 con arandela neopreno	Und	792.00	420.	430.	440.	390.	$ 420.00	$ 332,640.00
07. MATERIALES ELÉCTRICOS E ILUMINACIÓN								
REFLECTOR LED 400 W, LUZ BLANCA 6500 K.	Und	14.00	825,000.	866,000.	834,000.	875,000.	$ 850,000.00	$ 11,900,000.00
Reflector LED 100w, Ip65	Und	13.00	111,000.	103,000.	107,000.	99,000.	$ 105,000.00	$ 1,365,000.00
CABLE N° 12 Cobre: Calibres 14 AWG	m	120.00	4,180.	3,930.	3,860.	4,270.	$ 4,060.00	$ 487,200.00
08. TUBERÍAS, ACCESORIOS Y CONEXIONES HIDROSANITARIAS								
TUBO EN CONCRETO REFROZADO DE 36"	Und	14.00	538,000.	571,000.	562,000.	529,000.	$ 550,000.00	$ 7,700,000.00
Tubo Pvc 3" x 3 m	Und	3.00	69,360.	67,260.	70,560.	66,660.	$ 68,460.00	$ 205,380.00
Codo Pvc 3"	Und	3.00	8,830.	8,480.	8,380.	9,030.	$ 8,680.00	$ 26,040.00
TAPONES EN CAUCHO TUBO 2"	Und	6.00	2,080.	2,070.	1,940.	1,750.	$ 1,960.00	$ 11,760.00
Tubos aguas negras 2" cal 1..8mm	Und	3.00	120,000.	132,000.	124,000.	128,000.	$ 126,000.00	$ 378,000.00
09. EQUIPOS Y ACCESORIOS PARA BOMBEO Y CONDUCCIÓN								
MOTOBOMBA DIESEL 10 HP 3"	Und	1.00	5,700,000.	5,500,000.	5,400,000.	5,800,000.	$ 5,600,000.00	$ 5,600,000.00
ROLLO DE MANGUERA DE 3" CALIBRE 60 X 45 METROS	Und	1.00	694,000.	686,000.	665,000.	715,000.	$ 690,000.00	$ 690,000.00
ROLLO DE MANGUERA DE 1" CALIBRE 60 X 90 METROS	Und	2.00	227,000.	203,000.	205,000.	225,000.	$ 215,000.00	$ 430,000.00
Niple Combinado En Acero Al Carbón De 3"	Und	5.00	102,600.	104,000.	97,500.	110,300.	$ 103,600.00	$ 518,000.00

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Valvula de Compuerta Red White Tipo Pesado 3"	Und	1.00	1,992,000.	2,012,000.	2,018,000.	1,986,000.	$ 2,002,000.00	$ 2,002,000.00
Abrazadera Industrial Acero Galvanizado Manguera 3"	Und	30.00	8,800.	7,850.	8,000.	8,950.	$ 8,400.00	$ 252,000.00
Cinta Teflón Industrial De 1/2", Largo 7 Metros	Und	10.00	24,700.	28,500.	24,950.	28,250.	$ 26,600.00	$ 266,000.00
10. CERRAMIENTOS Y MALLAS METÁLICAS								
Malla eslabonada c12 X 2 m	m	154.00	37,000.	36,000.	39,000.	40,000.	$ 38,000.00	$ 5,852,000.00
TUBO CERRAMIENTO GALVA 1 1/2" ESP .047" - 6.000 MTS	Und	18.00	119,520.	137,720.	131,320.	119,920.	$ 127,120.00	$ 2,288,160.00
Alambre Calibre 12 Galvanizado 1Kg	kg	67.00	17,200.	17,300.	18,800.	16,700.	$ 17,500.00	$ 1,172,500.00
bisagras aleta #5 zincada	Und	4.00	29,550.	29,200.	26,150.	24,300.	$ 27,300.00	$ 109,200.00
11. CARPINTERÍA, ENCOFRADO, FIJACIÓN Y MONTAJE								
TABLA ENCOFRADO 0.03 X 0.30 X 3 m	Und	92.70	44,720.	46,020.	48,620.	55,120.	$ 48,620.00	$ 4,507,074.00
PUNTILLAS	kg	36.00	11,900.	10,950.	11,700.	13,050.	$ 11,900.00	$ 428,400.00
Varilla Roscada Galvanizada de 1/2" x 1m	Und	48.00	39,540.	37,640.	35,440.	36,340.	$ 37,240.00	$ 1,787,520.00
Tuerca con arandela 1/2"	Und	32.00	2,260.	2,140.	2,060.	1,940.	$ 2,100.00	$ 67,200.00
Soldadura Electrodo 6013 - 3/32 Pulgada X 1 Kilo	kg	54.00	40,600.	42,000.	41,400.	40,800.	$ 41,200.00	$ 2,224,800.00
12. PINTURAS, RECUBRIMIENTOS Y HERRAMIENTAS								
PINTURA TIPO 1	gal	14.22	110,000.	114,000.	118,000.	106,000.	$ 112,000.00	$ 1,592,640.00
PINTURA ANTICORROSIVA + ESMALTE	gal	13.83	115,000.	109,000.	105,000.	119,000.	$ 112,000.00	$ 1,548,960.00
PINTURA ANTICORROSIVA + ESMALTE	gal	10.00	113,000.	116,000.	111,000.	108,000.	$ 112,000.00	$ 1,120,000.00
Tinner	gal	11.00	60,400.	56,500.	59,100.	53,600.	$ 57,400.00	$ 631,400.00
Rodillos 9 "	Und	4.00	18,000.	20,100.	17,900.	19,600.	$ 18,900.00	$ 75,600.00
Brocha	Und	19.00	17,750.	19,300.	20,400.	18,150.	$ 18,900.00	$ 359,100.00
Rodillos 3"	Und	2.00	13,750.	15,250.	13,450.	16,350.	$ 14,700.00	$ 29,400.00
13. MATERIALES COMPLEMENTARIOS Y PROTECCIÓN								
PLISOMBRA 50% 4 x 100 MTS	Und	1.00	953,000.	909,000.	907,000.	955,000.	$ 931,000.00	$ 931,000.00
TUNEL FIBRA DE VIDRIO 0,60x 1,20		1.00	785,000.	748,000.	755,000.	792,000.	$ 770,000.00	$ 770,000.00
14. MATERIAL VEGETAL								
Pentas Lanceolata De Exterior Diámetro 14 Cm	Und	50.00	23,000.	20,000.	22,000.	19,000.	$ 21,000.00	$ 1,050,000.00
15. FLEJE								
FLEJES 18X18 EN ACERO #3	Und	651.00	4,220.	4,020.	3,686.	4,050.	$ 3,994.00	$ 2,600,094.00
TOTAL GENERAL								**$ 248,229,514.18**