

**City of Riviera Beach Utility District
180287 RB Filter Rehabilitation**

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price	
1 General Conditions									
General Conditions		LOT							
Submittal Labor		HR	60.00	75.24	4,514.40		1.3400	6,049.30	
O&M		HR	16.00	75.24	1,203.84		1.3400	1,613.15	
Progress Meetings		HR	80.00	116.28	9,302.40		1.3400	12,465.22	
Construction Scheduler		HR	96.00	70.11	6,730.56		1.3400	9,018.95	
Construction PM 3		HR	300.0	95.76	28,728.00		1.3400	38,495.52	
Construction PM 1		HR	300.0	66.69	20,007.00		1.3400	26,809.38	
Purchasing & Subcontract		HR	200.0	95.76	19,152.00		1.3400	25,663.68	
Construction Assistant		HR	200.0	66.69	13,338.00		1.3400	17,872.92	
					Bid Item Totals:	102,976.20			137,988.12
2 Sitework									
MOB/DEMOB									
Construction PM 3		HR	16.00	95.76	1,532.16		1.3400	2,053.09	
Construction Superintendent		HR	16.00	72.21	1,155.36		1.3400	1,548.18	
4-Man Crew		CR-D	2.000	1,378.72	2,757.44		1.3400	3,694.97	
Temporary Facilities		LOT							
Job Site Trailer		MONTH	8.000	500.00	4,000.00	7.00	1.1500	4,922.00	
PVC Pipe & Fittings For Temp. Water&Sewer		LOT	1.000	900.00	900.00	7.00	1.1500	1,107.45	
Install Hurr. Tiedowns,Water&Sewer piping		CR-D	4.000	1,378.72	5,514.88	7.00	1.1500	6,786.06	
Container Rental		EA	10.00	200.00	2,000.00	7.00	1.1500	2,461.00	
Pick up/Delivery		EA	2.000	450.00	900.00	7.00	1.1500	1,107.45	
Sanitary		MONTH	8.000	200.00	1,600.00	7.00	1.1500	1,968.80	
Waste Hauling		LOT	8.000	800.00	6,400.00	7.00	1.1500	7,875.20	
Startup Crew		CR-D	8.000	1,338.56	10,708.48		1.3400	14,349.36	
Punch Out Crew		CR-D	5.000	1,338.56	6,692.80		1.3400	8,968.35	

Takeoff Worksheet

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Continued...

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
Site Restoration		LOT	1.000	7,500.00	7,500.00	7.00	1.1500	9,228.75
Restoration Labor		CR-D	3.000	1,378.72	4,136.16		1.3400	5,542.45
Bid Item Totals:					55,797.28			71,613.11
5 Misc Metals								
Repair Works Of Sweeps & Troughs								
Sweep Nozzles For Repair Works (4 Filter)		LOT	1.000	5,000.00	5,000.00	7.00	1.1500	6,152.50
Misc. Material For Sweep Repair (4 Filter)		EA	4.000	500.00	2,000.00	7.00	1.1500	2,461.00
Sweep Bearing For Repair (4 Filter)		LOT	1.000	12,000.00	12,000.00	7.00	1.1500	14,766.00
Installation		CR-D	5.000	1,378.72	6,893.60		1.3400	9,237.42
Misc. Material Trough Repair(4 Filter)		EA	4.000	1,000.00	4,000.00	7.00	1.1500	4,922.00
Installation		CR-D	4.000	1,378.72	5,514.88		1.3400	7,389.94
Misc. Material Repair Galv. Piping(4 Filter)		EA	4.000	800.00	3,200.00	7.00	1.1500	3,937.60
Installation		CR-D	5.000	1,378.72	6,893.60		1.3400	9,237.42
Replace With New Sweeps & Troughs								
New Sweeps w/Bearings For 4 Filters (16)		LOT	1.000	57,000.00	57,000.00	7.00	1.1500	70,138.50
Misc. Material & Fasteners		EA	4.000	500.00	2,000.00	7.00	1.1500	2,461.00
Remove Exist. Sweeps & Install New		CR-D	6.000	1,378.72	8,272.32		1.3400	11,084.91
Trough Support W/ New Galv. Piping(8 Filter)		EA	8.000	1,500.00	12,000.00	7.00	1.1500	14,766.00
Remove Exist. Supports&Install New (8 Filter)		CR-D	16.00	1,378.72	22,059.52		1.3400	29,559.76
New Troughs (6 Troughs)		LOT	1.000	48,500.00	48,500.00	7.00	1.1500	59,679.25
Misc. Material & Fasteners		EA	4.000	500.00	2,000.00	7.00	1.1500	2,461.00
Remove Exist.Troughs&Install New (6)		CR-D	8.000	1,378.72	11,029.76		1.3400	14,779.88
Bid Item Totals:					208,363.68			263,034.18
11 Equipment								
North Filter Bank Work (8 Filters)								
Remove Existing Media From Filters		CR-D	20.00	1,378.72	27,574.40		1.3400	36,949.70
Drill Out Underdrain Holes		CR-D	4.000	1,378.72	5,514.88		1.3400	7,389.94
Pressure Wash & Disinfect Filter Basin		CR-D	8.000	1,378.72	11,029.76		1.3400	14,779.88
Misc. Material For Disinfection		EA	8.000	500.00	4,000.00	7.00	1.1500	4,922.00

Takeoff Worksheet

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Continued...

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
New Filter Media		LOT	1.000	93,814.40	93,814.40	7.00	1.1500	115,438.62
Shipping Cost (3 Shipment)		LOT	1.000	74,250.00	74,250.00	7.00	1.1500	91,364.63
Unload & Re-arrange New Media Onsite		CR-D	3.000	1,378.72	4,136.16		1.3400	5,542.45
Install New Media		CR-D	24.00	1,632.80	39,187.20		1.3400	52,510.85
Underdrain Inspection, (1 Filter, North)								
Temp.Pipe Support,Sand Bags&Misc.Material		LOT	1.000	4,000.00	4,000.00	7.00	1.1500	4,922.00
Demo Concrete&Remove Base Elbow		CR-D	2.000	1,378.72	2,757.44		1.3400	3,694.97
Clean Underdrain Holes & Pipe Flushing		CR-D	1.000	1,378.72	1,378.72		1.3400	1,847.48
Water & Debris Removal From Room		CR-D	2.000	1,378.72	2,757.44		1.3400	3,694.97
Form, Concrete & Flange Kits		LOT	1.000	1,500.00	1,500.00	7.00	1.1500	1,845.75
Install Concrete Support & Base Elbow		CR-D	2.000	1,378.72	2,757.44		1.3400	3,694.97
South Filter Bank Work (1 Filter)								
Underdrain Inspection								
Remove Existing Media From Filter		CR-D	3.000	1,378.72	4,136.16		1.3400	5,542.45
Drill Out Underdrain Holes,& Pipe Flushing		CR-D	1.000	1,378.72	1,378.72		1.3400	1,847.48
Flange Kits & Misc. Materials		LOT	1.000	1,000.00	1,000.00	7.00	1.1500	1,230.50
Remove & Re-Install Blind Flange		CR-D	1.000	1,378.72	1,378.72		1.3400	1,847.48
Pressure Wash		CR-D	1.000	1,378.72	1,378.72		1.3400	1,847.48
Water & Debris Removal From Room		CR-D	1.000	1,378.72	1,378.72		1.3400	1,847.48
Construction Superintendent		HR	480.0	72.21	34,660.80		1.3400	46,445.47
Bid Item Totals:					319,969.68			409,206.55
17 I & C								
Modify Instrument SS Tubing For Manual Air Release, (64) Tubing, Ftgs & Valves		LOT	1.000	15,000.00	15,000.00	7.00	1.1500	18,457.50
Misc Metals		LOT	1.000	800.00	800.00	7.00	1.1500	984.40
Installation		CR-D	12.00	1,378.72	16,544.64		1.3400	22,169.82
Relocate Exist. Transmitter								

Takeoff Worksheet

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Continued...

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
Pressure Transmitter		EA	1.000	3,000.00	3,000.00	7.00	1.1500	3,691.50
Tubing, Ftgs & Valves		LOT	1.000	400.00	400.00	7.00	1.1500	492.20
Misc Metals		LOT	1.000	500.00	500.00	7.00	1.1500	615.25
Installation		CR-D	1.000	1,378.72	1,378.72		1.3400	1,847.48
Electric Sub (Disconnect/Reconnect Electric)		LOT	1.000	1,000.00	1,000.00		1.1000	1,100.00
Bid Item Totals:					38,623.36			49,358.15
40 Process Interconnections								
Tapping Saddle & Misc. Materials		EA	2.000	1,000.00	2,000.00	7.00	1.1500	2,461.00
Valves & Operators (3" ARV & Ball Valve)		Ea	2.000	2,200.00	4,400.00	7.00	1.1500	5,414.20
Pressure Gauge & Assembly		LOT	2.000	800.00	1,600.00	7.00	1.1500	1,968.80
Installation		CR-D	3.000	1,378.72	4,136.16		1.3400	5,542.45
Bid Item Totals:					12,136.16			15,386.45
41 Material Processing & Handling Equip								
Vacuum Truck		LOAD	36.00	2,600.00	93,600.00	7.00	1.1500	115,174.80
Media Disposal		LOT	1.000	20,000.00	20,000.00	7.00	1.1500	24,610.00
Flex Hoses		LOT	1.000	4,500.00	4,500.00	7.00	1.1500	5,537.25
Traversing Fork Lift		Month	8.000	4,850.00	38,800.00	7.00	1.1500	47,743.40
Scissor Lift		Month	4.000	625.00	2,500.00	7.00	1.1500	3,076.25
Crane		DAY	30.00	2,000.00	60,000.00	7.00	1.1500	73,830.00
Safety		HR	32.00	116.28	3,720.96		1.3400	4,986.09
Safety Equipment		LOT	1.000	2,400.00	2,400.00	7.00	1.1500	2,953.20
Pressure Washer		LOT	1.000	2,000.00	2,000.00	7.00	1.1500	2,461.00
Equipment Fuel		GAL	100.0	6.90	690.00	7.00	1.1500	849.05
Misc Tools & Equipment		LOT	1.000	8,000.00	8,000.00	7.00	1.1500	9,844.00
Pick Up/Delivery		EA	5.000	450.00	2,250.00	7.00	1.1500	2,768.63
Bid Item Totals:					238,460.96			293,833.67
100 Engineering								
Engineering		LOT	1.000	254,268.00	254,268.00		1.0000	254,268.00

Takeoff Worksheet

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Continued...

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
					Bid Item Totals:	254,268.00		254,268.00
101 Allowance								
Allowance		LOT	1.000	300,000.00	300,000.00		1.0000	300,000.00
					Bid Item Totals:	300,000.00		300,000.00
102 Bonds & Insurance								
Bonds & Certifications		LOT	1.000	30,288.69	30,288.69		1.1500	34,831.99
					Bid Item Totals:	30,288.69		34,831.99
110 Replace Underdrain One Filter								
Replace Underdrain (1 Filter, South)								
General Conditions		LOT	1.000	32,000.00	32,000.00		1.0000	32,000.00
Temporary Facilities		LOT	1.000	2,500.00	2,500.00		1.0000	2,500.00
Underdrains Material & Vendor Inspection Assi		LOT	1.000	68,500.00	68,500.00	7.00	1.1500	84,289.25
Misc. Materials		LOT	1.000	4,000.00	4,000.00	7.00	1.1500	4,922.00
Remove Exist. Underdrains		CR-D	10.00	1,632.80	16,328.00		1.3400	21,879.52
Install New. Underdrains		CR-D	15.00	1,632.80	24,492.00		1.3400	32,819.28
Waste Hauling		LOT	4.000	800.00	3,200.00	7.00	1.1500	3,937.60
Grout		YD	15.00	180.00	2,700.00	7.00	1.1500	3,322.35
Concrete Pump		LOT	2.000	700.00	1,400.00	7.00	1.1500	1,722.70
Install		CR-D	2.000	1,632.80	3,265.60		1.3400	4,375.90
Testing Services		LOT	1.000	1,200.00	1,200.00	7.00	1.1500	1,476.60
Epoxy & Bonding Agents		LOT	1.000	4,500.00	4,500.00	7.00	1.1500	5,537.25
Install		CR-D	2.000	1,632.80	3,265.60		1.3400	4,375.90
Crane		DAY	10.00	2,000.00	20,000.00	7.00	1.1500	24,610.00
Traversing Fork Lift		Month	2.000	4,850.00	9,700.00	7.00	1.1500	11,935.85
Misc Tools		LOT	1.000	2,500.00	2,500.00	7.00	1.1500	3,076.25
Replace Exist. Media With New Media								
New Filter Media		LOT	1.000	11,726.80	11,726.80	7.00	1.1500	14,429.83
Re-arrange New Media Onsite		CR-D	1.000	1,378.72	1,378.72		1.3400	1,847.48

Takeoff Worksheet

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Continued...

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
Install New Media		CR-D	3.000	1,632.80	4,898.40		1.3400	6,563.86
Minor Repair Works								
Misc. Materials		EA	1.000	4,000.00	4,000.00	7.00	1.1500	4,922.00
Installation		CR-D	4.000	1,378.72	5,514.88		1.3400	7,389.94
Startup Crew		CR-D	1.000	1,338.56	1,338.56		1.3400	1,793.67
Punch Out Crew		CR-D	1.000	1,338.56	1,338.56		1.3400	1,793.67
Construction Superintendent		HR	160.0	72.21	11,553.60		1.3400	15,481.82
Bonds & Certifications		LOT	1.000	7,103.48	7,103.48		1.1500	8,169.00
Bid Item Totals:					248,404.20			305,171.72
Grand Totals:					1,809,288.21			2,134,691.94

Note: CR-D=8Hrs

*Contract Markups Per Master Agreement:

Materials = 1.15, Subcontractors = 1.1, Labor at Burden = 1.34

Takeoff Notes

1. Estimate Price Due to Insufficient Design Detail
2. Estimate Price Established With Past projects & Historic Data
3. Estimate Price Based on Conceptual Design