									MANHOUR UNIT RATE		$ 75
SR. NO.	DESCRIPTION	QUANTITY	WASTAGE	QTY WITH WASTAGE	UNIT	UNIT COST	MATERIAL COST	MANHOURS UNIT RATE	MANHOURS	MANHOURS COST	TOTAL TRADE COST
	SUPPLIED AND INSTALLED BY PROCESS CONTRACTOR										
	PID-704										
BUTTERFLY VALVE											
1	ACV-7201, 6" Dia Auto Butterfly W/ Actuator, KEYSTONE, HIGH-PERFORMANCE, DOUBLE-OFFSET, MOD. 6" KLOK LUGGED, ALL SS, RTFE SEAT. MODULATING PNEUMATIC ACTUATOR, ACTUATOR: F89U-032 FAIL CLOSE 12 SPRING ACTUATOR, BLX V100E POSITIONER. ORDER AS A COMPLETE, ASSEMBLED, FUNCTIONING VALVE. WITH HANDWHEEL MANUAL OVERRIDE OPERATOR.	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	ACV-7401, 6" Dia Auto Butterfly W/ Actuator (Normally Close Type), BRAY, LUGGED BUTTERFLY VALVE, 6" BRAY SERIES 31-375 VALVE, ALL SS WETTED PARTS, EPDM SEAT, NSF-61 APPROVED/BRAY SERIES 93-119 SPRING RETURN ACTUATOR, FAIL CLOSED/SERIES 63 24VDC SOLENOID/SERIES 5A LIMIT SWITCH, 310600-11010375/931195-11300532/301930-71500530/630250-21401536/5A0000-126A2536/5B0000-22601534	1	0%	1	EA		$ -	$ 75		$ -	$ -
3	ACV-7402, 6" Dia Auto Butterfly W/ Actuator (Normally Open Type), BRAY, LUGGED BUTTERFLY VALVE, 6" BRAY SERIES 31-375 VALVE, ALL SS WETTED PARTS, EPDM SEAT, NSF-61 APPROVED/BRAY SERIES 93-119 SPRING RETURN ACTUATOR, FAIL OPEN/SERIES 63 24VDC SOLENOID/SERIES 5A LIMIT SWITCH, 310600-11010375 / 931195-11325532 / 301930-71500530 / 630250-21401536 / 5A0000-126A2536 / 5B0000-22601534	1	0%	1	EA		$ -	$ 75		$ -	$ -
4	ACV-7221, 6" Dia Auto Butterfly W/ Actuator (Normally Open Type), BRAY, LUGGED BUTTERFLY VALVE, 6" BRAY SERIES 31-375 VALVE, ALL SS WETTED PARTS, EPDM SEAT, NSF-61 APPROVED/BRAY SERIES 93-119 SPRING RETURN ACTUATOR, FAIL OPEN/SERIES 63 24VDC SOLENOID/SERIES 5A LIMIT SWITCH, 310600-11010375 / 931195-11325532 / 301930-71500530 / 630250-21401536 / 5A0000-126A2536 / 5B0000-22601534	1	0%	1	EA		$ -	$ 75		$ -	$ -
5	ACV-7222, 6" Dia Auto Butterfly W/ Actuator (Normally Close Type), BRAY, LUGGED BUTTERFLY VALVE, 6" BRAY SERIES 31-375 VALVE, ALL SS WETTED PARTS, EPDM SEAT, NSF-61 APPROVED/BRAY SERIES 93-119 SPRING RETURN ACTUATOR, FAIL CLOSED/SERIES 63 24VDC SOLENOID/SERIES 5A LIMIT SWITCH, 310600-11010375/931195-11300532/301930-71500530/630250-21401536/5A0000-126A2536/5B0000-22601534	1	0%	1	EA		$ -	$ 75		$ -	$ -
BACKFLOW PREVENTER											

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1	BFP-7212, 1" Dia Backflow preventer, WATTS ANTI-SIPHON BACKFLOW PREVENTER (1"), SERIES 008PCQT (1")	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	BFP-7213, 1" Dia Backflow preventer, WATTS ANTI-SIPHON BACKFLOW PREVENTER (1"), SERIES 008PCQT (1")	1	0%	1	EA		$ -	$ 75		$ -	$ -
3	BFP-7221, 2-1/2" Dia Backflow Preventer, WATTS REDUCED PRESSURE ZONE ASSEMBLY (2.5"), LF957	1	0%	1	EA		$ -	$ 75		$ -	$ -
4	BFP-7222, 1-1/2" Dia Backflow Preventer, WATTS BACKFLOW PREVENTER (1.5"), SERIES LF009	1	0%	1	EA		$ -	$ 75		$ -	$ -
WATER FLOW METER											
1	FM-7201, Water Flow Meter, ENDRESS & HAUSER MAG METER, FLANGE ENDS, REMOTE TRANS, 6", PROMAG 5W4C1F-STJ3/0-AA-A-L-H-P-2-D-H-A1S-0-B-L4-L5	1	0%	1	EA		$ -	$ 75		$ -	$ -
HOSS REEL											
1	HR-7212, Hose Reel, COXREELS HOSE REELS AND ACCESSORIES, Hose reel, ¾" ID 50'L 300PSI, Item 29re43 Washdown hose, Item 3ATL8 Hose to pipe adapter, Item 4KG84 Hose reel bumper, Item 1GYJ1 Spray nozzle, SS white, Item 41J441 Wall mount swing bracket, Item 10C538	1	0%	1	EA		$ -	$ 75		$ -	$ -
LEVEL TRANSMITTER											
1	LIT-7201, Level Transmitter, IFM EFFECTOR PRESSURE LEVEL TRANSMITTER KIT, ZH4077 (2" TRI-CLAMP)	1	0%	1	EA		$ -	$ 75		$ -	$ -
PRESSURE TRANSMITTER											
1	PIT-7201, Pressure Transmitter, IFM EFFECTOR PRESSURE LEVEL TRANSMITTER KIT ,KIT # UP0070 (1/4" NPT FITTING)	1	0%	1	EA		$ -	$ 75		$ -	$ -
SAMPLE PORT											
1	SP-7201, 1-1/2" Dia Sample port, PERLICK TRI-CLAMP SAMPLE VALVE, PART # F38305SS, 1.5" TRI-CLAMP	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	SP-7202, 6" Dia Sample port, PERLICK TRI-CLAMP SAMPLE VALVE, PART # F38305SS, 1.5" TRI-CLAMP	1	0%	1	EA		$ -	$ 75		$ -	$ -
PRESSURE GAUGE											
1	PI-7201, 1/2" Dia Pressure Gauge, ASHCROFT DURALIFE TYPE 1009, 35-1009-SWL-04L-160 PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	PI-7211, 1/2" Dia Pressure Gauge, 35-1009-SWL-04L-160 PSI, 35-1009-SWL-04L-160 PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
3	PI-7212, 1/2" Dia Pressure Gauge, ASHCROFT DURALIFE TYPE 1009, 35-1009-SWL-04L-160 PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
BLOW-OFF CAP											
1	BC-7201, 12" Dia Blow-Off Cap, PROTECTOSEAL OVERFLOW VALVE SERIES 7300D, 12" F7300DA 316SS VALVE W/ SS WEIGHT, 12", 3" WC CRACKING PRESSURE	1	0%	1	EA		$ -	$ 75		$ -	$ -

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2	BC-7202, 12" Dia Blow-Off Cap, PROTECTOSEAL OVERFLOW VALVE SERIES 7300D, 12" F7300DA 316SS VALVE W/ SS WEIGHT, 12", 3" WC CRACKING PRESSURE	1	0%	1	EA		$ -	$ 75		$ -	$ -
SPRAY BALL												
1	SB-7201, Spray Ball, SANIMATIC SPRAY BALL AND DOWN TUBE, SB1-2.5-1.5"-SC-114-25-32-TANG, ST-1.5-4" 150# FLANGE-SC-TC-32-3-32	1	0%	1	EA		$ -	$ 75		$ -	$ -
FLEXIBLE JOINT												
1	FJ-7201, 10" Dia Flexible Joint, THERMOTECH FOOD GRADE EXPANSION JOINT SERIES FFR, FLANGED JOINT: SILOFLEX SILICONE RUBBER LINED	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	FJ-7202, 10" Dia Flexible Joint, THERMOTECH FOOD GRADE EXPANSION JOINT SERIES FFR, FLANGED JOINT: SILOFLEX SILICONE RUBBER LINED	1	0%	1	EA		$ -	$ 75		$ -	$ -
3	FJ-7203, 6" Dia Flexible Joint, THERMOTECH FOOD GRADE EXPANSION JOINT SERIES FFR, FLANGED JOINT: SILOFLEX SILICONE RUBBER LINED	1	0%	1	EA		$ -	$ 75		$ -	$ -
4	FJ-7204, 6" Dia Flexible Joint, THERMOTECH FOOD GRADE EXPANSION JOINT SERIES FFR, FLANGED JOINT: SILOFLEX SILICONE RUBBER LINED	1	0%	1	EA		$ -	$ 75		$ -	$ -
5	FJ-7811, 8" Dia Flexible Joint, THERMOTECH FOOD GRADE EXPANSION JOINT SERIES FFR, FLANGED JOINT: SILOFLEX SILICONE RUBBER LINED	1	0%	1	EA		$ -	$ 75		$ -	$ -
ELEMENT FILTER												
1	FR-4401, 1" Dia Element Filter For City Water Control Valve, NORGEN FILTER REGULATOR OR EQUAL (3/4"), B64G-6GK-AD3-RMN	1	0%	1	EA		$ -	$ 75		$ -	$ -
OTHER VALVES												
1	1/2" Dia Ball valve	3	0%	3	EA		$ -	$ 75		$ -	$ -
2	1" Dia Ball Valve	3	0%	3	EA		$ -	$ 75		$ -	$ -
3	1" Dia Ball valve	3	0%	3	EA		$ -	$ 75		$ -	$ -
4	1" Dia Manual Butterfly Valve	9	0%	9	EA		$ -	$ 75		$ -	$ -
5	2" Dia Ball valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
6	2" Dia Manual Butterfly Valve	2	0%	2	EA		$ -	$ 75		$ -	$ -
7	3" Dia Sanitary Manual butterfly valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
8	4" Dia Manual Butterfly Valve	2	0%	2	EA		$ -	$ 75		$ -	$ -
9	4" Dia Sanitary Manual butterfly valve	2	0%	2	EA		$ -	$ 75		$ -	$ -
10	6" Dia Check Valve	6	0%	6	EA		$ -	$ 75		$ -	$ -
11	10" Dia Manual Butterfly Valve	13	0%	13	EA		$ -	$ 75		$ -	$ -
PID-705												
PRESSURE GAUGE												
1	PI-7221, 1/2" Dia Pressure Gauge, ASHCROFT DURALIFE TYPE 1009, 35-1009-SWL-04L-160 PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	PI-7222, 1/2" Dia Pressure Gauge, ASHCROFT DURALIFE TYPE 1009, 35-1009-SWL-04L-160 PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
3	PI-7321, 1/2" Dia Pressure Gauge, ANDERSON PRESSURE GAUGE (LIQUID FILLED), EL-071-01-005-1-1-1-1-A-0-0-0-0	1	0%	1	EA		$ -	$ 75		$ -	$ -

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4	PI-7322, 1/2" Dia Pressure Gauge, ANDERSON PRESSURE GAUGE (LIQUID FILLED), EL-071-01-005-1-1-1-1-A-0-0-0-0	1	0%	1	EA		$ -	$ 75		$ -	$ -
5	PI-4411, Pressure Gauge, ASHCROFT DURALIFE TYPE 1009, 35-1009-SWL-02L-200 PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
6	PI-4411, 1/2" Dia Pressure Gauge, ASHCROFT DURALIFE TYPE 1009, 35-1009-SWL-02L-200 PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
PRESSURE RELIEF VALVE											
1	SRV-7201, Pressure Relief Valve, LESER, 1500 GPM, 100 PSI, 10 PSI ACCUMULATION, 1 PSI BP, 316 SS, 150# FLG, HORIZONTAL MOUNT	1	0%	1	EA		$ -	$ 75		$ -	$ -
ELEMENT FILTER											
1	FR-4411, Element Filter, NORGEN FILTER REGULATOR OR EQUAL (3/4"), B64G-6GK-AD3-RMN	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	FR-4412, Element Filter, NORGEN FILTER REGULATOR OR EQUAL (3/4"), B64G-6GK-AD3-RMN	1	0%	1	EA		$ -	$ 75		$ -	$ -
STEAM TRAP											
1	TST-7703, Thermodynamic Steam Trap, SPIRAX SARCO, 1/2"-UTD52L (STEAM TRAP W/ STRAINER)	1	0%	1	EA		$ -	$ 75		$ -	$ -
OTHER VALVES											
1	1/2" Dia Ball valve, Normally Open	6	0%	6	EA		$ -	$ 75		$ -	$ -
2	1/2" Dia Gate Valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
3	3/4" Dia Ball Valve, Normally Close	2	0%	2	EA		$ -	$ 75		$ -	$ -
4	3/4" Dia Ball Valve, Normally Open	4	0%	4	EA		$ -	$ 75		$ -	$ -
5	1" Dia Ball Valve	2	0%	2	EA		$ -	$ 75		$ -	$ -
6	1" Dia Manual Butterfly Valve	4	0%	4	EA		$ -	$ 75		$ -	$ -
7	1" Dia Sanitary Manual butterfly valve	2	0%	2	EA		$ -	$ 75		$ -	$ -
8	2" Dia Ball Valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
9	2" Dia Gate Valve	2	0%	2	EA		$ -	$ 75		$ -	$ -
10	3" Dia Sanitary Manual butterfly valve	5	0%	5	EA		$ -	$ 75		$ -	$ -
11	4" Dia Manual Butterfly Valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
12	6" Dia Check Valve	6	0%	6	EA		$ -	$ 75		$ -	$ -
13	6" Dia Manual Butterfly Valve	3	0%	3	EA		$ -	$ 75		$ -	$ -
14	6" Dia Sanitary Manual butterfly valve	3	0%	3	EA		$ -	$ 75		$ -	$ -
15	8" Dia Sanitary Manual butterfly valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
16	8" Dia Sanitary Manual butterfly valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
17	10" Dia Manual Butterfly Valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
PID-707											
VACCUM BREAKER											
1	AV-7401, Vaccum Breaker, SPIRAX SARCO VACUUM BREAKER (1/2"), VB21	1	0%	1	EA		$ -	$ 75		$ -	$ -
OTHER VALVES											
1	3/8" Dia Ball Valve, Normally Open	2	0%	2	EA		$ -	$ 75		$ -	$ -
2	3/8" Dia Check valve	2	0%	2	EA		$ -	$ 75		$ -	$ -

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3	1/4" Dia Ball Valve, Normally Open	3	0%	3	EA		$ -	$ 75		$ -	$ -
4	1" Dia Ball valve, Normally Open	2	0%	2	EA		$ -	$ 75		$ -	$ -
5	1" Dia Manual Butterfly Valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
6	1" Dia Sanitary Manual butterfly valve	3	0%	3	EA		$ -	$ 75		$ -	$ -
7	2" Dia Ball valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
8	2" Dia Check valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
9	2" Dia Sanitary Manual butterfly valve	3	0%	3	EA		$ -	$ 75		$ -	$ -
10	4" Dia Manual Butterfly Valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
11	4" Dia Sanitary Manual butterfly valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
12	6" Dia Check valve	4	0%	4	EA		$ -	$ 75		$ -	$ -
13	6" Dia Manual Butterfly Valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
14	6" Dia Sanitary Manual butterfly valve	4	0%	4	EA		$ -	$ 75		$ -	$ -
15	8" Dia Sanitary Manual butterfly valve	2	0%	2	EA		$ -	$ 75		$ -	$ -
PID-710											
LEVEL TRANSMITTER											
1	LIT-7411, Level Transmitter, IFM EFFECTOR PRESSURE LEVEL TRANSMITTER KIT, ZH4077 (2" TRI-CLAMP)	1	0%	1	EA		$ -	$ 75		$ -	$ -
ORIFICE PLATE											
1	FO-7601, Orifice Plate, NEWMAN GASKET SANITARY ORIFICE PLATE, DRILLED WITH 7/8" HOLE RATED FOR 135 GPM MAX FLOW	1	0%	1	EA		$ -	$ 75		$ -	$ -
BACKFLOW PREVENTER											
1	BFP-7224, 1-1/2" Dia Backflow Preventer, WATTS BACKFLOW PREVENTER (1.5"), SERIES LF009	1	0%	1	EA		$ -	$ 75		$ -	$ -
OTHER VALVES											
1	1" Dia Sanitary Manual butterfly valve	3	0%	3	EA		$ -	$ 75		$ -	$ -
2	1-1/2" Dia Sanitary Manual butterfly valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
3	3" Dia Sanitary Manual butterfly valve	5	0%	5	EA		$ -	$ 75		$ -	$ -
4	4" Dia Sanitary Manual butterfly valve	2	0%	2	EA		$ -	$ 75		$ -	$ -
5	8" Dia Sanitary Manual butterfly valve	2	0%	2	EA		$ -	$ 75		$ -	$ -
PID-711											
BACKFLOW PREVENTER											
1	BFP-7214, 1" Dia Backflow Preventer, WATTS ANTI-SIPHON BACKFLOW PREVENTER (1"), SERIES 008PCQT (1")	1	0%	1	EA		$ -	$ 75		$ -	$ -
HOSE REEL											
1	HR-7214, Hose Reel For City Water Cleaning, COXREELS HOSE REELS AND ACCESSORIES, Hose reel, ¾" ID 50'L 300PSI, Item 29re43 Washdown hose, Item 3ATL8 Hose to pipe adapter, Item 4KG84 Hose reel bumper, Item 1GYJ1 Spray nozzle, SS white, Item 41J441 Wall mount swing bracket, Item 10C538	1	0%	1	EA		$ -	$ 75		$ -	$ -
ELEMENT FILTER											

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1	FR-4413, Element Filter, NORGEN FILTER REGULATOR OR EQUAL (3/4"), B64G-6GK-AD3-RMN	1	0%	1	EA		$ -	$ 75		$ -	$ -
PRESSURE GAUGE											
1	PI-4413, 1/2" Dia Pressure Gauge, ASHCROFT DURALIFE TYPE 1009, 35-1009-SWL-04L-200 PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
OTHER VALVES											
1	1/2" Dia Ball Valve, Normally Open	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	3/4" Dia Ball Valve, Normally Closed	1	0%	1	EA		$ -	$ 75		$ -	$ -
3	3/4" Dia Ball Valve, Normally Open	2	0%	2	EA		$ -	$ 75		$ -	$ -
4	1" Dia Manual Butterfly Valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
5	2" Dia Check Valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
PID-712											
BACKFLOW PREVENTER											
1	BFP-7201, 1" Dia Backflow Preventer, WATTS REDUCED PRESSURE ZONE ASSEMBLY (1"), SERIES 008-PC-QT-S	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	BFP-7202, 1" Dia Backflow Preventer, WATTS REDUCED PRESSURE ZONE ASSEMBLY (1"), SERIES 008-PC-QT-S	1	0%	1	EA		$ -	$ 75		$ -	$ -
HOSE REEL											
1	HR-7511, Hose Reel, COXREELS HOSE REELS AND ACCESSORIES, Hose reel, ¾" ID 50'L 300PSI, Item 29re43 Washdown hose, Item 3ATL8 Hose to pipe adapter, Item 4KG84 Hose reel bumper, Item 1GYJ1 Spray nozzle, SS white, Item 41J441 Wall mount swing bracket, Item 10C538	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	HR-7521, Hose Reell, COXREELS HOSE REELS AND ACCESSORIES, Hose reel, ¾" ID 50'L 300PSI, Item 29re43 Washdown hose, Item 3ATL8 Hose to pipe adapter, Item 4KG84 Hose reel bumper, Item 1GYJ1 Spray nozzle, SS white, Item 41J441 Wall mount swing bracket, Item 10C538	1	0%	1	EA		$ -	$ 75		$ -	$ -
PRESSURE GAUGE											
1	PI-7511, Pressure Gauge, ANDERSON PRESSURE GAUGE (LIQUID FILLED), EL-069-01-005-1-1-1-1-A-0-0-0-0	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	PI-7521, Pressure Gauge, ANDERSON PRESSURE GAUGE (LIQUID FILLED), EL-069-01-005-1-1-1-1-A-0-0-0-0	1	0%	1	EA		$ -	$ 75		$ -	$ -
PRESSURE TRANSMITTER											
1	PIT-7521, Pressure Transmitter, IFM EFFECTOR PRESSURE LEVEL TRANSMITTER KIT, KIT # UP0075 (2" TRI-CLAMP)	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	PIT-7511, Pressure Transmitter, IFM EFFECTOR PRESSURE LEVEL TRANSMITTER KIT, KIT # UP0075 (2" TRI-CLAMP)	1	0%	1	EA		$ -	$ 75		$ -	$ -
SAMPLE PORT											
1	SP-7511, Sample Port, PERLICK TRI-CLAMP SAMPLE VALVE, PART # F38305SS, 1.5" TRI-CLAMP	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	SP-7521, Sample Port, PERLICK TRI-CLAMP SAMPLE VALVE, PART # F38305SS, 1.5" TRI-CLAMP	1	0%	1	EA		$ -	$ 75		$ -	$ -

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OTHER VALVES											
1	1/2" Dia Ball valve	2	0%	2	EA		$ -	$ 75		$ -	$ -
2	1" Dia Manual Butterfly Valve	2	0%	2	EA		$ -	$ 75		$ -	$ -
3	1" Dia Sanitary Manual butterfly valve	2	0%	2	EA		$ -	$ 75		$ -	$ -
4	4" Dia Check Valve	4	0%	4	EA		$ -	$ 75		$ -	$ -
5	4" Dia Sanitary Manual butterfly valve	2	0%	2	EA		$ -	$ 75		$ -	$ -
PID-715											
STEAM TRAP											
1	TST-7701, Thermo-Dynamics Steam Trap, SPIRAX SARCO, 1/2"-UTD52L (STEAM TRAP w' STRAINER)	1	0%	1	EA		$ -	$ 75		$ -	$ -
STRAINER											
1	STR-7701, Strainer, SPIRAX SARCO, 1" 34HP CARBON STEEL STRAINER	1	0%	1	EA		$ -	$ 75		$ -	$ -
PRESSURE GAUGE											
1	PI-7602, Pressure Gauge, ANDERSON PRESSURE GAUGE (LIQUID FILLED), EL-071-01-005-1-1-1-1-A-0-0-0-0	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	PI-7701, Pressure Gauge, ASHCROFT DURALIFE TYPE 1009 W/ PIGTAIL, 45-1009-S-L-04-L-200-# PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
3	PI-7702, Pressure Gauge, ASHCROFT DURALIFE TYPE 1009 W/ PIGTAIL, 45-1009-S-L-02-L-100-# PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
4	PI-4415, Pressure Gauge, ASHCROFT DURALIFE TYPE 1009, 35-1009-SWL-04L-200 PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
PRESSURE REDUCING VALVE											
1	PRV-7701, 1-1/2" Dia Pressure Reducing Valve, SPIRAX SARCO 1.5" NPT (SET @ 50 PSI), MODEL - 25P, BLUE SPRING RATED 20 TO 100 PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
PRESSURE RELIEF VALVE											
1	SRV-7701, 1/2" Dia Pressure Relief Valve, SPIRAX SARCO 3"X4" FLG (SET @ 60 PSI), MODEL - SV73VLM15, ORIFICE M, FIRED VESSEL, 3" INLET & 4" OUTLET	1	0%	1	EA		$ -	$ 75		$ -	$ -
ELEMENT FILTER											
1	FR-4415, Element Filter, NORGEN FILTER REGULATOR OR EQUAL (3/4"), B64G-6GK-AD3-RMN	1	0%	1	EA		$ -	$ 75		$ -	$ -
OTHER VALVES											
1	1/2" Dia Ball valve, Normally Open	3	0%	3	EA		$ -	$ 75		$ -	$ -
2	3/4" Dia Ball Valve, Normally Closed	1	0%	1	EA		$ -	$ 75		$ -	$ -
3	3/4" Dia Ball Valve, Normally Open	2	0%	2	EA		$ -	$ 75		$ -	$ -
4	2" Dia Gate valve Manual	2	0%	2	EA		$ -	$ 75		$ -	$ -
5	3" Dia Check Valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
6	3" Dia Sanitary Manual butterfly valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
7	4" Dia Check Valve	3	0%	3	EA		$ -	$ 75		$ -	$ -
8	4" Dia Sanitary Manual butterfly valve	2	0%	2	EA		$ -	$ 75		$ -	$ -

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9	6" Dia Check Valve	2	0%	2	EA		$ -	$ 75		$ -	$ -
PID-716												
SAMPLE COOLER												
1	SMP-7701, Sample Cooler, MUIRA, SC100100	1	0%	1	EA		$ -	$ 75		$ -	$ -
PRESSURE GAUGE												
1	PI-7709, Pressure Gauge, ASHCROFT DURALIFE TYPE 1009 W/ PIGTAIL, 45-1009-S-L-04-L-200-# PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	PI-7710, Pressure Gauge, ASHCROFT DURALIFE TYPE 1009 W/ PIGTAIL, 45-1009-S-L-04-L-200-# PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
3	PI-7711, Pressure Gauge, ASHCROFT DURALIFE TYPE 1009 W/ PIGTAIL, 45-1009-S-L-04-L-200-# PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
4	PI-7712, Pressure Gauge, ASHCROFT DURALIFE TYPE 1009 W/ PIGTAIL, 45-1009-S-L-02-L-30-# PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
STEAM TRAP												
1	TST-7702, Thermo-Dynamic Steam Trap, SPIRAX SARCO, 1/2"-UTD52L (STEAM TRAP w' STRAINER)	1	0%	1	EA		$ -	$ 75		$ -	$ -
PRESSURE REDUCING VALVE												
1	PRV-7702, 1-1/2" Dia Pressure Reducing Valve, SPIRAX SARCO 1.5" NPT (SET @ 15 PSI), MODEL - 25P, YELLOW SPRING RATED 3 TO 30 PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
PRESSURE RELIEF VALVE												
1	SRV-7702, Pressure Relief Valve, SPIRAX SARCO (SET @ 90 PSI), MODEL - SV5601, ORIFICE J, FIRED VESSEL, 2" INLET & 2.5" OUTLET	1	0%	1	EA		$ -	$ 75		$ -	$ -
OTHER VALVES												
1	1/4" Dia Gate valve Manual	5	0%	5	EA		$ -	$ 75		$ -	$ -
2	1/2" Dia Ball Valve, Normally Open	4	0%	4	EA		$ -	$ 75		$ -	$ -
3	1" Dia Check Valve	3	0%	3	EA		$ -	$ 75		$ -	$ -
4	1" Dia Gate valve Manual	1	0%	1	EA		$ -	$ 75		$ -	$ -
5	1" Dia Globe Valve, Normally Closed	1	0%	1	EA		$ -	$ 75		$ -	$ -
6	1" Dia Globe Valve, Normally Open	1	0%	1	EA		$ -	$ 75		$ -	$ -
7	1-1/4" Dia Ball Valve, Normally Closed	2	0%	2	EA		$ -	$ 75		$ -	$ -
8	1-1/4" Dia Ball Valve, Normally Open	2	0%	2	EA		$ -	$ 75		$ -	$ -
9	1-1/2" Dia Ball Valve, Normally Open	1	0%	1	EA		$ -	$ 75		$ -	$ -
10	1-1/2" Dia Check Valve	1	0%	1	EA		$ -	$ 75		$ -	$ -
11	2" Dia Ball Valve, Normally Open	2	0%	2	EA		$ -	$ 75		$ -	$ -
12	2" Dia Gate Valve Manual	4	0%	4	EA		$ -	$ 75		$ -	$ -
STRAINER												
1	1" Dia Strainer	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	1-1/2" Dia Strainer	1	0%	1	EA		$ -	$ 75		$ -	$ -
SUPPLIED BY OWNER, INSTALLED BY PROCESS CONTRACTOR												
PID-704												

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HEPA FILTER											
1	FLT-7201, 6" Dia Filter, FULLER, FG 2004 6" TC	1	0%	1	EA		$ -	$ 75		$ -	$ -
PRESSURE GAUGE											
1	PI-7203, 1/2" Dia Pressure Gauge, ASHCROFT DURALIFE TYPE 1009, 35-1009-SWL-04L-60 PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	PI-7204, 1/2" Dia Pressure Gauge, ASHCROFT DURALIFE TYPE 1009, 35-1009-SWL-04L-160 PSI	1	0%	1	EA		$ -	$ 75		$ -	$ -
3	PI-7205, 1/2" Dia Pressure Gauge, ASHCROFT DURALIFE TYPE 1009, 35-100	1	0%	1	EA		$ -	$ 75		$ -	$ -
PRESSURE TRANSMITTER											
1	PIT-7202, IFM EFFECTOR PRESSURE LEVEL TRANSMITTER KIT, KIT # UP007(	1	0%	1	EA		$ -	$ 75		$ -	$ -
PID-710											
BLOWOFF CAP											
1	BC-7411, Blowoff Cap#1, SHIPPED WITH SILO	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	BC-7412, Blowoff Cap#2, SHIPPED WITH SILO	1	0%	1	EA		$ -	$ 75		$ -	$ -
HEPA FILTER											
1	FLT-7411, hepa Filter, FULLER, FG 2004 6" TC	1	0%	1	EA		$ -	$ 75		$ -	$ -
SAMPLE PORT											
1	SP-7411, Sample Port, PERLICK TRI-CLAMP SAMPLE VALVE, PART # F38305SS, 1.5" TRI-CLAMP	1	0%	1	EA		$ -	$ 75		$ -	$ -
PRESSURE GAUGE											

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1	PI-7420, 316 S.S 1/2" Dia Pressure Gauge, ANDERSON PRESSURE GAUGE (LIQUID FILLED), EL-069-01-005-1-1-1-1-A-0-0-0-0	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	PI-7421, 316 S.S 1/2" Dia Pressure Gauge, ANDERSON PRESSURE GAUGE (LIQUID FILLED), EL-074-01-005-1-1-1-1-A-0-0-0-0	1	0%	1	EA		$ -	$ 75		$ -	$ -
3	PI-7422, 316 S.S 1/2" Dia Pressure Gauge, ANDERSON PRESSURE GAUGE (LIQUID FILLED), EL-074-01-005-1-1-1-1-A-0-0-0-0	1	0%	1	EA		$ -	$ 75		$ -	$ -
4	PI-7429, 316 S.S 1/2" Dia Pressure Gauge, ANDERSON PRESSURE GAUGE (LIQUID FILLED), EL-071-01-005-1-1-1-1-A-0-0-0-0	1	0%	1	EA		$ -	$ 75		$ -	$ -
PROXIMITY SENSOR											
1	ZS-7421, Proximity Sensor, IFM EFECTOR M18x1 INDUCTIVE SENSOR - IGT247 W/ FIELD-WIREABLE, KIT # UI0059 (1/4" NPT FITTING)	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	ZS-7422, Proximity Sensor, IFM EFECTOR M18x1 INDUCTIVE SENSOR - IGT247 W/ FIELD-WIREABLE, KIT # UI0059 (1/4" NPT FITTING)	1	0%	1	EA		$ -	$ 75		$ -	$ -
3	ZS-7429, Proximity Sensor, IFM EFECTOR M18x1 INDUCTIVE SENSOR - IGT247 W/ FIELD-WIREABLE, KIT # UI0059 (1/4" NPT FITTING)	1	0%	1	EA		$ -	$ 75		$ -	$ -
4	ZS-7651, Proximity Sensor, IFM EFECTOR M18x1 INDUCTIVE SENSOR - IGT247 W/ FIELD-WIREABLE, KIT # UI0059 (1/4" NPT FITTING)	1	0%	1	EA		$ -	$ 75		$ -	$ -
5	ZS-7652, Proximity Sensor, IFM EFECTOR M18x1 INDUCTIVE SENSOR - IGT247 W/ FIELD-WIREABLE, KIT # UI0059 (1/4" NPT FITTING)	1	0%	1	EA		$ -	$ 75		$ -	$ -
6	ZS-7659, Proximity Sensor, IFM EFECTOR M18x1 INDUCTIVE SENSOR - IGT247 W/ FIELD-WIREABLE, KIT # UI0059 (1/4" NPT FITTING)	1	0%	1	EA		$ -	$ 75		$ -	$ -
PID-715											
PROXIMITY SENSOR											
1	ZS-7691, Proximity Sensor, IFM EFECTOR M18x1 INDUCTIVE SENSOR - IGT247 W/ FIELD-WIREABLE, KIT # UI0059 (1/4" NPT FITTING)	1	0%	1	EA		$ -	$ 75		$ -	$ -
2	ZS-7692, Proximity Sensor, IFM EFECTOR M18x1 INDUCTIVE SENSOR - IGT247 W/ FIELD-WIREABLE, KIT # UI0059 (1/4" NPT FITTING)	1	0%	1	EA		$ -	$ 75		$ -	$ -
3	ZS-7693, Proximity Sensor, IFM EFECTOR M18x1 INDUCTIVE SENSOR - IGT247 W/ FIELD-WIREABLE, KIT # UI0059 (1/4" NPT FITTING)	1	0%	1	EA		$ -	$ 75		$ -	$ -
4	ZS-7694, Proximity Sensor, IFM EFECTOR M18x1 INDUCTIVE SENSOR - IGT247 W/ FIELD-WIREABLE, KIT # UI0059 (1/4" NPT FITTING)	1	0%	1	EA		$ -	$ 75		$ -	$ -
5	ZS-7695, Proximity Sensor, IFM EFECTOR M18x1 INDUCTIVE SENSOR - IGT247 W/ FIELD-WIREABLE, KIT # UI0059 (1/4" NPT FITTING)	1	0%	1	EA		$ -	$ 75		$ -	$ -
6	ZS-7696, Proximity Sensor, IFM EFECTOR M18x1 INDUCTIVE SENSOR - IGT247 W/ FIELD-WIREABLE, KIT # UI0059 (1/4" NPT FITTING)	1	0%	1	EA		$ -	$ 75		$ -	$ -
7	ZS-7697, Proximity Sensor, IFM EFECTOR M18x1 INDUCTIVE SENSOR - IGT247 W/ FIELD-WIREABLE, KIT # UI0059 (1/4" NPT FITTING)	1	0%	1	EA		$ -	$ 75		$ -	$ -
8	ZS-7698, Proximity Sensor, IFM EFECTOR M18x1 INDUCTIVE SENSOR - IGT247 W/ FIELD-WIREABLE, KIT # UI0059 (1/4" NPT FITTING)	1	0%	1	EA		$ -	$ 75		$ -	$ -

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TOTAL MATERIAL COST		**$ -**
TOTAL MANHOURS' COST		**$ -**
TOTAL COST		**$ -**
OVERHEADS & PROFIT	**25%**	**$ -**
TOTAL BID		**$ -**

SCOPE OF ESTIMATE:

I	SUPPLY & INSTALLATION
1	VALVES
2	GAUGES
3	TRANSMITTER
4	SAMPLE PORTS
5	FLEXIBLE JOINTS
6	SPRAY BALL
7	OTHER VALVES

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