

**HI-TECH PRODUCTS, INC.**

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CCR REGISTERED, ORCA CERTIFIED

Mr. Robert J Barnes  
Federal Correctional Complex  
3600 Guard Road  
Lompoc, California 93436-2705

September 17, 2010.

Ref: Solicitation # RFQP06171000028 - 3 TANK CIP 3A System

Dear Mr. Barnes

We are pleased to quote herewith our price for 3 Tank CIP 3A System as specified in your above mentioned solicitation. **No exception to the specification taken.**

The system will consist of the following:

CIP TANKS- CYLINDRICAL WITH ALL WELDED PANNED/RADIUS TOP, 18" HINGED AND REMOVABLE MAN WAY.

PANNED/RADIUS/PITCHED BOTTOM, 2.5"-TC OUTLET FERRULE WITH SANITARY VORTEX BREAKER.

CONSTRUCTED TO THE FOLLOWING SPECIFICATIONS:

WASH TANK-

CAPACITY: 100-GALLON

RATING: ATMOSPHERIC

TANK MATERIAL: 304SS

CONSTRUCTION: 14-GAUGE

SIDEWALL:NON-INSULATED

FITTING:(1) 2"-TC TANK LEVEL, (1) 2"-TC CONDUCTIVITY FERRULE, AND (1) 2"-TC RETURN FERRULE.

WATER INLET: (1) 1.5"-TC ANTI-SIPHON DEVICE AND (1) ASCO ANGLE PISTON WATER INLET VALVE.

LEGS: (4) WELDED TO THE SKID FRAME

PRE-RINSE/RE-USE TANK:

CAPACITY: 100-GALLON

RATING: ATMOSPHERIC

TANK MATERIAL: 304SS

CONSTRUCTION: 14-GAUGE

SIDEWALL:NON-INSULATED

FITTING:(1) 2"-TC TANK LEVEL AND (1) 2"-TC RETURN FERRULE.

WATER INLET: (1) 1.5"-TC ANTI-SIPHON DEVICE AND (1) ASCO ANGLE PISTON WATER INLET VALVE.

LEGS: (4) WELDED TO THE SKID FRAMES

FRESH RINSE TANK:

CAPACITY: 100-GALLON

RATING: ATMOSPHERIC

TANK MATERIAL: 304SS

CONSTRUCTION: 14-GAUGE

SIDEWALL: NON-INSULATED

FITTING: (1) 2"-TC TANK LEVEL

WATER INLET: (1) 1.5"-TC ANTI-SIPHON DEVICE AND (1) ASCO ANGLE PISTON WATER INLET VALVE.

LEGS: (4) WELDED TO THE SKID FRAMS

TUBING MANIFOLDS: 304SS TUBING

SUCTION: (3) 2.5" TANK OUTLET VALVE, (1) 2.5" SUCTION TO DRAIN VALVE, AND (1) 3-POINT CHEMICAL INJECTION ASSEMBLY.

RETURN: (2) 2" RETURN TO TANK VALVES, (1) 2.5" RETURN TO DRAIN VALVE, AND (1) 2" SPRING CHECK VALVE.

RECIRCULATION: (2) 2" RECIRCULATION VALVES.

SUPPLY PUMP: (1) WAUKESHA 2065 CENTRIFUGAL PUMP, 2.5" x 2" TRI-CLAMP FERRULES, W/ 316L SS

CONSTRUCTION, IMPELLER SIZED TO DELIVER 100GPM @ 60-PSI. SINGLE MECHANICAL SEAL, 10-Hp, TEFC MOTOR, 230-460-VOLT 2-PHASE 60-HERTZ, 3500 RPM.

20 3/4 ANGLE LINE STRAINER: (1) INSTALLED IN SUPPLY PUMP DISCHARGE TO PREVENT FOULING OF SPRAY DEVICES. T304SS CONSTRUCTION, 20.75" LONG, 2"-TC FERRULES, 0.015 WEDGE-WIRE INNER FRAME FILTER. INSTRUMENTS INSTALLED ON CIP SKID:

(1) CIP RETURN TEMPERATURE SENSOR AND TRANSMITTER-ANDERSON SA 3-WIRE RTD WITH CT 4-20MA TRANSMITTER AND 2" TRI-CLAMP CONNECTION. RANGE 30-230-F.

(1) CIP SUPPLY TEMPERATURE SENSOR AND TRANSMITTER-ANDERSON SA 3-WIRE RTD WITH CT 4-20MA TRANSMITTER AND 2" TRI-CLAMP CONNECTION. RANGE 30-230-F.

SUPPLY FLOW METER AND SENSOR TRANSMITTER: (1) ANDERSON IZML-SERIES ELECTROMAGNETIC FLOW METER WITH T316L SS SANITARY CONSTRUCTION AND 4-20MA TRANSMITTER INSTALLED IN THE DISCHARGE OF THE SUPPLY PUMP.

FLOW SWITCH: (1) EFFECTOR THERMAL DISPERSION FLOW SWITCH WITH 2"-TC CONNECTION MOUNTED IN THE RETURN MANIFOLD FOR VERIFICATION OF RETURN FLOW.

CONDUCTIVE ANALYZER, TRANSMITTER, AND SENSOR (1) ROSEMOUNT 1055-SERIES SINGLE CHANNEL ANALYZER WITH (1) INTEGRAL 4-20MA TRANSMITTER. ANALYZER MOUNTED IN THE DOOR OF THE CONTROL PANEL. (1) ROSEMOUNT 225 SERIES NON-CONTACTING PROBE WITH 2" SANITARY CONNECTION MOUNTED IN THE WASH TANK. RANGE: 0.25-100mS/cm.

LEVEL SENSORS AND TRANSMITTERS: (3) ANDERSON SL-SERIES LEVEL SENSOR AND 4-20MA TRANSMITTER WITH 2"-TC CONNECTION MOUNTED IN THE SIDEWALL OF THE CIP SOLUTION TANKS

RECORDER: (1) 4-PEN ANDERSON MODEL AV-9000 WITH CIRCULAR CHART FOR TREND RECORDINGS OF THE CIP FLOW RATE, CONDUCTIVITY, SUPPLY TEMPERATURE, AND RETURN TEMPERATURE. RECORDER MOUNTED IN THE DOOR OF THE CONTROL PANEL.

I/P TRANSDUCER-CONVERTS 4-20MA TO 3-15PSI.

HEATING PACKAGE:

SKID MOUNTED 6"x54" SANITARY SHELF AND TUBE HEAT EXCHANGER, SIZED TO HEAT CIP SOLUTIONS APPROX. 45-F PER PASS AT 100-GPM @ 50-PSI SHELL STEAM PRESSURE. 304 STAINLESS STEEL SHELL & TUBE CONSTRUCTION. ASME RATING: 150-PSI @ 375-F.

STEAM INLET-(1) AIR-ACTUATED MODULATING STEAM CONTROL BALL VALVE, (1) MANUAL BALL BLOW DOWN VALVE, (1) Y-STRAINER, (1) MANUAL ISOLATION BALL VALVE, (1) PRESSURE REDUCING VALVE & (1) PRESSURE GAUGES W/ PIGTAILS. ALL STEAM COMPONENTS CARBON STEEL WITH NPT CONNECTIONS.

2"-TC INLET & OUTLET CIP CONNECTIONS.

PRESSURE RELIEF VALVE W/DOWNTUBE PIPING.

VACUUM BREAKER PROVIDED W/UNIT.

CONDENSATE OUTLET-1" NPT (1) FLOAT & THERMOSTATIC CONDENSATE TRAP, (1)

MANUAL BALL BLOW DOWN VALVE, (1) CHECK VALVE & (1) Y-STRAINER, ALL STEAM COMPONENTS CARBON STEEL W/ NPT CONNECTIONS.

SKID MOUNTING-T304SS SQUARE TUBING FRAME FOR MOUNTING OF TANKS, PUMPS, SHELL & TUBE HEAT EXCHANGER, MANIFOLDS, & PANEL. INCLUDES LEGS W/ ADJUSTABLE FEET.

CIP ELECTRICAL ASSEMBLY DESCRIPTION

SKID MOUNTED CONTROL ENCLOSURE-304SS 48"Hx36"Wx12"D, NEMA 4X. PANEL INCLUDES PAINTED WHITE BACK PANEL.

PLC W/ OPERATOR INTERFACE- INCLUDES ALLEN BRADLEY COMPACT LOGIX ETHERNET PLC PROCESSOR W/ 750K MEMORY FOR AUTOMATIC WASH SEQUENCE CONTROL OF THE CIP SKID. OPERATOR INTERFACE WILL BE PROVIDED THROUGH A PANEL VIEW 700 PLUS W/ COLOR DISPLAY & TOUCH SCREEN INTERFACE.

FROM THE OPERATOR INTERFACE, THE OPERATOR WILL BE ABLE TO SELECT & INITIATE AUTOMATIC WASH CYCLES. THE CURRENT STEP NUMBER, TIME REMAINING, OPERATION DESCRIP. & ALARM CONDITIONS WILL BE DISPLAYED.

ADDITIONALLY, THE OPERATOR WILL BE ABLE TO MONITOR TEMPERATURE, FLOW, & CHEMICAL VALUES, AS WELL AS CHANGE PROGRAM SET-PTS. & CONFIGURE THE WASH CYCLES.

PLC PROCESSOR-ALLEN BRADLEY 1769-L32E COMPACT LOGIX ETHERNET PROCESSOR, 750-KBYTE MEMORY.

MODULES:

(1) 16PT. DISCRETE INPUT CARD

(2) 16PT. DISCRETE OUTPUT CARDS

(1) 4PT. 4-20MA ANALOG INPUT CARD

(1) 4PT. 4-20MA ANALOG OUTPUT CARD

(1) POWER SUPPLY

SWITCHES/PILOT LIGHTS

(1) ILLUMINATED EMERGENCY STOP SWITCH-RED

(1) ETHERNET COMMUNICATION SWITCH

(1) 120VAC, 15-AMP DUPLEX OUTLET W/ 5-AMP CIRCUIT PROTECTION.

**PNEUMATICS:**

THREE WAY AIR SOLENOIDS, W/ 1/4" AIR LINE CONNECTION.

1/4" NPT AIR PRESSURE REGULATORS W/ GAUGES

1/4" NPT AIR FILTER

AIRLINE-POLY FLO POLYETHYLENE MULTI-COLORED TUBING INSTALLED ON SKID FRAME & TERMINATED TO EACH SKID MOUNTED PNEUMATIC DEVICE.

CONTROL POWER SUPPLY- (1) 24 VDC 1.2 AMP POWER SUPPLY

**CONDUIT ASSEMBLY:**

SCHEDULE 40 NONMETALLIC PVC CONDUIT.

CONNECTION TO LOW VOLTAGE ELECTRICAL DEVICES WILL BE INSTALLED W/ FLEXIBLE CORD.

FLEXIBLE CONNECTIONS TO ELECTRICAL DEVICES OPERATING @ 120 VAC & HIGHER WILL BE INSTALLED W/ SEAL TIGHT FLEXIBLE CONDUIT.

**460- VOLT ELECTRICAL ASSEMBLY**

**GENERAL:**

(1) ALLEN BRADLEY BULLETIN 194R FUSED DISCONNECT SWITCH W/ HANDLE. WIRING TO ALL SKID MOUNTED COMPONENTS.

**TRANSFORMER:**

(1) ALLEN BRADLEY BULLETIN 1492 FUSE HOLDER 2-POLE

(2) BUSSMAN FUSES

(1) HEAVY-DUTY CONTROL TRANSFORMER

**CIP SUPPLY PUMP VFD**

(1) ALLEN BRADLEY BULLETIN 1492 FUSE HOLDER 3-POLE

(3) BUSSMAN FUSES

(1) ALLEN BRADLEY POWER FLEX 70 VARIABLE SPEED AC MOTOR DRIVES W/ NEMA 4X ENCLOSURE.

**PRICE: HERITAGE 3 STAINLESS STEEL TANKD CIP 3A SYSTEM, FOB DESTINATION FCC Lompoc, Ca, 93436.**

**INCLUDING START UP AT JOB SITE ----- \$83,523.00 Loading  
dock and forklift services will be provided by FCC.**

We trust you will find our proposal of interest and look forward to working with you.  
Best regards,

Salma Godhrawala ----- President

100% made in the USA. Designed, Engineered and Manufactured in Plain City OHIO.  
We have professional Engineer (P.E.) on staff.

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