

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, & 30				1. REQUISITION NO.		PAGE 1 OF 139	
2. CONTRACT NO.		3. AWARD/EFFECTIVE DATE		4. ORDER NO.		5. SOLICITATION NUMBER VA797H-12-R-0015	
6. SOLICITATION ISSUE DATE July 19, 2013		7. FOR SOLICITATION INFORMATION CALL: a. NAME Freddie Beaulieux		b. TELEPHONE NO. (No Collect Calls) 708-786-5240		8. OFFER DUE DATE/LOCAL TIME Sept. 5, 2013 1400hrs @ Hines IL	
9. ISSUED BY Department of Veterans Affairs OA&L / National Acquisition Center Building 37 NCS (001AL-A2-3a) 1st Avenue, One Block North of Cermak Hines IL 60141				10. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED OR <input type="checkbox"/> SET ASIDE: % FOR: <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> EMERGING SMALL BUSINESS <input type="checkbox"/> HUBZONE SMALL BUSINESS <input type="checkbox"/> SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS <input type="checkbox"/> 8(A) NAICS: 423850 SIZE STANDARD: 100 Employees			
11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input type="checkbox"/> SEE SCHEDULE		12. DISCOUNT TERMS		13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700) <input type="checkbox"/>		13b. RATING N/A	
14. METHOD OF SOLICITATION <input type="checkbox"/> RFQ <input type="checkbox"/> IFB <input checked="" type="checkbox"/> RFP				15. DELIVER TO Central Texas Veterans Healthcare System Textile Care Facility 4800 Memorial Drive Waco, TX 76711 ATTN: Michael Richardson (254) 743-3711			
16. ADMINISTERED BY Department of Veterans Affairs OA&L / National Acquisition Center Building 37 1st Avenue, One Block North of Cermak Hines IL 60141				17a. CONTRACTOR/OFFEROR CODE FACILITY CODE			
18a. PAYMENT WILL BE MADE BY Department of Veterans Affairs OA&L / National Acquisition Center Building 37 1st Avenue, One Block North of Cermak Hines IL 60141				18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a UNLESS BLOCK BELOW IS CHECKED <input type="checkbox"/> SEE ADDENDUM			
19. ITEM NO.				20. See CONTINUATION Page SCHEDULE OF SUPPLIES/SERVICES			
21. QUANTITY				22. UNIT			
23. UNIT PRICE				24. AMOUNT			
25. ACCOUNTING AND APPROPRIATION DATA				26. TOTAL AWARD AMOUNT (For Govt. Use Only)			
27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4. FAR 52.212-3 AND 52.212-5 ARE ATTACHED. ADDENDA <input checked="" type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED.				27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED			
28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED				29. AWARD OF CONTRACT: REF. YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN IS ACCEPTED AS TO ITEMS:			
30a. SIGNATURE OF OFFEROR/CONTRACTOR				31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)			
30b. NAME AND TITLE OF SIGNER (TYPE OR PRINT)		30c. DATE SIGNED		31b. NAME OF CONTRACTING OFFICER (TYPE OR PRINT) Freddie Beaulieux		31c. DATE SIGNED	

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
	See Section B - Continuation of SF 1449 Blocks				

32a. QUANTITY IN COLUMN 21 HAS BEEN

☐ RECEIVED ☐ INSPECTED ☐ ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED: _____

32b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		32c. DATE	32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		
32e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE			32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE		
			32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE		
33. SHIP NUMBER		34. VOUCHER NUMBER	35. AMOUNT VERIFIED CORRECT FOR	36. PAYMENT	37. CHECK NUMBER
<input type="checkbox"/> PARTIAL	<input type="checkbox"/> FINAL			<input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	
38. S/R ACCOUNT NUMBER		39. S/R VOUCHER NUMBER	40. PAID BY		
41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT			42a. RECEIVED BY (Print)		
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER		41c. DATE	42b. RECEIVED AT (Location)		
			42c. DATE REC'D (YY/MM/DD)		42d. TOTAL CONTAINERS

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GENERAL: THIS SCOPE OF WORK MUST REQUIRE SUCCESSFUL CONTRACTOR TO COMPLY WITH THE DESIGN AND LAYOUT COMMUNICATED WITHIN THE BUILDING CONSTRUCTION PACKAGE APPROVED BY THE VA. THIS DOCUMENT SHOULD ALSO REFERENCE THAT LAYOUT AS FINAL.

STATEMENT OF WORK/ STANDARDS OF PERORMANCE

1. SCOPE: This acquisition covers the design, furnishing, installation, and insulation of a complete workable textile care processing system within a new textile care processing facility located at:

Department of Veterans Affairs Medical Center
Laundry Facility – Building 222
4800 Memorial Drive
Waco, Texas 76711

The system offered will be semi-automated from the soiled sorting operation and automated through washing, drying and dryer discharge to finish areas i.e. flatwork ironers, blanket folding, uniform holding, small piece and rough dry processing.

⇒ **NOTE: Components of the textile care processing system are specified in "Schedule of Supplies and Services" (Attachment 1)**

The Contractor shall furnish all, supervision, labor, equipment, and supplies necessary to meet the terms and conditions of this contract in accordance with the Statement of Work (SOW). This SOW includes delivery and installation of new laundry equipment at the Waco, Texas, VA Medical Center (VAMC) in conformance with the following set of specifications. All items provided by the contractor shall be new.

Equipment and materials shall be suitable for installation in available space, arranged for safe and convenient operation and maintenance and, if applicable with referenced specifications, include lock-out and tag-out requirements for all industrial equipment offered. All lock-out / tag-out locations shall be marked and identified on the machine with instructions on lock-out procedures for the equipment offered. Lock out tag out instructions shall be permanently attached on the equipment. Lock-out / Tag-out procedures include all electrical, air, water, steam, condensate, hydraulic etc. Relief valves shall be installed for lock-out / tag-out procedures. All equipment will be separately identified by number and nomenclature with no less than 3-inch numbers and letters, with separate identification on each component. Example: 400 LB Dryer Number 1; Spreader Feeder Number 1.

All equipment shall be made compatible to form a system meeting production requirements specified in "Purchase Descriptions".

The VA reserves the right to conduct preliminary inspections after 25%, 50%, 75% and 100% of installation is completed. The contractor will advise the contracting officer within 30 days of each phase of progress. Textile Care Quality Assurance Specialist's, VHACO will perform the preliminary inspections.

2. SITE VISIT: Bidder has the responsibility of visiting the site and examining VA drawings of the installation area. Failure on the part of the bidder to accomplish a site visit and become thoroughly familiar with all conditions that may affect his/her bid or any resultant contract will be at the bidder's risk.

Bidder has the responsibility of visiting the installation site and surveying planned utility systems to determine if the systems are adequate for operation of the offered textile care processing system.

Prior to site visits, the bidder's shall arrange for technical assistance by contacting:

Mr. Michael Richardson, Chief Environmental Management Service @ (254) 743-0518

3. **SUBMITTALS REQUIRED:** Bidder's shall submit with his/her technical proposal(s) five complete sets (i.e., one original and four exact copies), bound and indexed, of the following:

a. **Textile Care Processing System Layout Drawings:** Submit five 1/4 inch scale drawings of layout of the textile care processing system(s) offered. Drawings shall be self-explanatory, showing:

1. Building column line identification, north arrow, arrow indicating soil in, and arrow indicating clean out.

2. Overall layout dimensions in relationship to floor space requirements, plus monorail heights.

A minimum clearance of 36 inches between moving parts and fixed objects and 24 inches between non-moving parts and fixed objects is required.

3. Drawings shall have a legend listing all equipment proposed, including quantities, and identify locations of equipment (including blow-down devices and central vacuum drop points).

4. Actual filled sling locations that comply with VA storage and sling requirements specified elsewhere in this document.

1. Mathematical calculations depicting volume requirements for all conveyors and all equipment offered, including a summation that depicts total system compliance.

NOTE: After Award, within 45 calendar days, the successful bidder shall furnish eight (8) sets of job specific drawings (footprint) and in auto cad format, (latest version) of required utilities. Detailed requirements of these drawings will be specified in the solicitation.

Two (2) color, framed pictorial equipment layout drawings with legends are required. The size of these framed pictorial equipment layout drawings with legends shall be approximately 24" H X 36" W and the framing shall include picture hanging hardware.

b. **Descriptive Literature:** Descriptive literature means information (e.g., cuts, illustrations, drawings and brochures) that is submitted as part of a technical proposal. Descriptive literature is required to establish, for the purpose of evaluation, details of the product offered that are specified in "Purchase Descriptions", and pertain to significant elements such as design, materials, components, performance characteristics, and methods of manufacture, assembly, construction, or operation.

For the purpose of determining technical acceptability, descriptive literature must be identified to show the appropriate paragraph number of the purchase description item to which it applies, the specific model and type and all component items for functions offered and clearly show that the item(s) offered are in compliance with VA requirements.

Performance capabilities shall be listed for all offered equipment. Identify in the submitted technical data where these capabilities are described. The statement "COMPLIES" is not acceptable.

c. **Production and Storage Calculations:** Production and storage calculations and all data that substantiates the computations shall be submitted as a separate document. Sources and references for this submitted data are required. NOTE: Textile delivery carts will not be considered textile storage devices.

d. **Written Narratives Outlining the Work Flow:** Written narratives outlining the work flow must show that there are no bottlenecks in the system that will affect overall production and that all work will be transferred by mechanical transport without use of carts.

e. **Model Numbers, Etc.:** Bidder must indicate on a separate document, the name of the manufacturer, model and/or catalog number, quantity, and a description of each offered product and/or components, and the appropriate item number of the purchase description item to which it applies.

f. Qualifications: Approval, by the contracting officer, is required of products or services of proposed manufacturers and installers and will be based upon submission by bidder's certification that:

1. Manufacturer of equipment offered herein regularly and presently manufactures textile care processing equipment, conveying systems, washer injection feed systems or monorail conveying systems as one of his/her principal products.

2. Installer has technical qualifications, experience, trained personnel, and facilities to install and construct specified items. Approval of an offered component may not be given where the experience record is one of unsatisfactory performance.

3. The bidder hereby certifies that he/she is a dealer or distributor/manufacturer of textile care processing equipment that has been directly responsible for one successful textile care processing system (delivery, installation, and service) within the past two years at:

Name and Address of Establishment:

Installation Date: _____

(Signature/title of bidder) (Date signed)

(Company name of bidder)

g. Commercial Operation: No total system, or components thereof, will be acceptable unless that system or components thereof, consists of:

1. The bidder must demonstrate that they have demonstrated experience as a prime contractor or equal meeting installation, design of equipment of the same model, type, and class as that offered which has operated successfully, for the functions offered, in two or more commercial or institutional facilities in the United States for at least six months at date specified for receipt of technical proposal.

2. If applicable, fully developed software (both operational and special application) that is in successful use in at least one facility in the United States and available in the commercial market at date of technical proposal.

Equipment and/or software installed for test purposes in a manufacturer's plant or laboratory will not be considered as complying with this requirement.

h. Commercial Operation – On a separate document, bidder shall provide the following information for each type of equipment offered:

1. Appropriate "Purchase Description" paragraph number (Re: Item 1, etc.) and specific model number/type/class offered.

2. Names and addresses of at least two establishments where equipment of the same model, type, and class as that offered has operated successfully for the functions offered for at least six months at date specified for receipt of technical proposals. In addition, submit the name and telephone number of the person to contact at each establishment and the date(s) installation was successfully completed.

3. Commercial Operation Certification: The bidder hereby certifies that the equipment and software offered herein is in compliance with "Commercial Operation" provisions as stated above.

(Signature) (Title) (Date)

(Company Name)

i. Parts and Service: Successful bidder is fully responsible for the services to be performed by the following named servicing facilities, or by such facilities to be established, and fully guarantees performance of such services if the original service proves unsatisfactory. If a new servicing facility is to be established, the bidder fully guarantees that such facility is to be established no later than the date of arrival of the equipment at ultimate destination.

1. Servicing Facilities – On a separate document, bidder must provide the following information for each type of equipment offered:

a. Appropriate "Purchase Description" Item number (Re: Item 1, etc.) and specific model number/type offered.

b. "Servicing Facility" name, address and telephone number.

c. Indicate if servicing facility is "New or "Established".

d. Indicate dollar value of spare parts inventory carried for the type of equipment specified.

e. Indicate number of qualified mechanics.

2. Repair Parts Availability - Manufacturers Certification: On a separate document the manufacturer of each type of equipment offered shall certify that, in the event of award, repair parts for equipment furnished will be available for a minimum of ten years after the guarantee commencement date. Certification document shall include:

a. Appropriate "Purchase Description" Item number (Re: Item 1, etc.) and specific model number/type offered.

b. Manufacturer's signature, title and date signed.

c. Manufacturer's company name, address, and telephone number.

j. Authorized Representatives: The bidder shall list the names, titles and telephone numbers of representatives of the firm who are authorized to discuss technical proposals in the firm's behalf. If additional information is required by VA, representatives shall be available for discussions. If necessary, written responses shall be submitted within time-frames established by the contracting officer.

(Name) (Title) (Telephone No.)

(Name) (Title) (Telephone No.)

Facsimile Telephone No.: _____

4. APPLICABLE DOCUMENTS: As applicable, the textile care processing system will be performance tested in accordance with latest publication of referenced specifications, codes, standards and

VA performance/production testing requirements specified in "Purchase Descriptions". Performance and production testing will be conducted by VA after installation and a 30 workday shakedown is completed. Provisions for shakedown and inspection will be specified in the solicitation.

TECHNICAL INDUSTRY STANDARDS

The supplies or equipment required by this invitation for bid or request for proposal must conform to the standards of the following:

National Electrical Manufacturers Association (NEMA):

- a. MG1 – Motors and Generators.
- b. MG2 – Safety Standard for Construction and Guide for Selections, Installation and Use.

All National Fire Protection Association (NFPA) Codes And Standards (2006 Edition):

- a. NFPA No. 70 – National Electric Code
- b. NFPA No. 70B – Recommended Practice for Electrical Equipment Maintenance
- c. NFPA No. 82 - Standard on Incinerators, Waste and Linen Handling Systems and Equipment.
- d. NFPA No. 90A - Standard for the Installation of Air Conditioning and Ventilating Systems.
- e. NFPA No. 91 - Standard for the Installation of Blower and Exhaust Systems for Dust, Stock and Vapor Removal or Conveying.
- f. NFPA No. 101 – Life Safety Codes
- g. NFPA No. 211 – Standard for Chimneys, Fireplaces, Vents and Fuel Burning Appliances
- h. NFPA No. 501 – Standard for Manufactured Housing
- i. NFPA No. 654 – Standard for the Prevention of Fire and Dust Explosions

American National Standards Institute (ANSI): Z8.1-1972 Safety Requirements for Commercial Laundry and Dry Cleaning Operations.

Occupational Safety and Health Administration (OSHA): 29 CFR 1910. Belts, chains, pulleys, couplings, motor shafts, gears or other moving parts shall be fully guarded in accordance with OSHA 1910.219. Guard parts shall be rigid and suitably secured and be readily removable without disassembling the guarded unit.

Sheet Metal and Air Conditioning Contractors National Association (SMACNA).

Compliance with Building Codes: Public Law 100-678, "Public Buildings Amendment Act of 1988".

VA Master Construction Specifications (when applicable).

CITY, COUNTY, STATE , VA AND NATIONAL ENVIRONMENTAL, FIRE AND SAFETY REGULATIONS/STANDARDS.

Air Moving and Conditioning Association, Inc. (AMCA), Standards:

Sheet Metal Contractors National Association, Inc. Publication: HVAC Duct Construction Standards - Metal & Flexible.

5. **SEAL, LABEL OR STAMP APPROVAL:** Where an item of equipment or appliance shall conform to requirements of a referenced agency, conformance shall be evidenced by attachment of seal, label or stamp to such item. Seal, label or stamp of Underwriter's Laboratories, Factory Mutual Laboratories, American Gas Association Laboratories, ASME, or suitable nationally recognized testing laboratory listed by National Fire Protection Association, Boston, Massachusetts, will be accepted as evidence that item furnished conforms to the standards.

The successful bidder or offeror shall be required to submit proof that the item(s) he/she furnishes conforms to this requirement. This proof may be in the form of a label or seal affixed to the equipment or supplies, warranting that they have been tested in accordance with and conform to the specified standards. The seal or label of any nationally recognized laboratory such as those listed by the National Fire Protection Association, Boston, Massachusetts, in the current edition of their publication "Research on Fire," is acceptable. Proof may also be furnished in the form of a certificate from one of these laboratories certifying that the item(s) furnished have been tested in accordance with and conform to the specified standards.

Technical Certificates of Compliance: Technical certificates of compliance (applicable to the item of equipment furnished) shall be submitted at the time and place of inspection. (Note: Inspection will be conducted by VA after installation and shakedown is completed).

6. **MANUFACTURED PRODUCTS:** Materials and equipment furnished shall be of current production by manufacturers regularly engaged in the manufacture of such items. Manufacturers of equipment assemblies which include components made by others shall assume complete responsibility for the final assembled unit and operation of the system or systems. All components of an assembled unit need not be products of the same manufacturer. Constituent parts which are alike shall be the product of a single manufacturer. Components shall be compatible with each other and with the total assembled unit for the intended service. Moving parts of any element of equipment of the unit normally requiring lubrication shall have means provided for such lubrication and shall be lubricated at factory prior to delivery. Factory wiring shall be identified on the equipment being furnished and on all wiring diagrams.

7. **SAFETY STANDARDS:** Design, manufacture, and installation of the textile care processing system shall meet requirements of "Safety Code For Laundry Machinery And Operations:" ANSI Z8-1.

8. **ELECTRICAL SYSTEMS:** Provide electrical components including motors, disconnect switches, motor controllers, motor control devices and electrical circuits and connections. Electrical equipment in hazardous locations shall be explosion-proof. The successful bidder shall provide all electrical wiring, conduit and all electrical devices, controls, cutouts, etc., necessary for the installation and operation of complete systems and equipment furnished. All equipment shall be grounded by green conductors in lieu of conduit ground system.

Motors: Motors shall be continuous, drip-proof or totally enclosed type for operations in a 40 degree centigrade ambient temperature.

a. All motors shall have windings impregnated to resist moisture.

b. Each motor shall have the proper starting characteristics; ample power and adequate thermal dissipation capacity to comply with requirements specified herein, with a reasonable factor of safety, commensurate with the application and expected duty cycle to which each motor might be subjected under normal operating conditions.

c. Motors shall be equipped with ball bearings except those motors of 1/2 horsepower or less; when used for horizontal applications, motors may be equipped with sleeve bearings.

d. Motor bearings shall be the permanently lubricated type or shall have sufficient and accessible means for lubrication.

- e. Each motor of 1/2 horsepower rating and less shall be provided with automatic reset thermal-overload protection incorporated as a part of the motor or installed in the controller.
- f. Motors 1/3 horsepower and less shall be 120 volts, single phase. Motors 1/2 horsepower and greater shall be 480 volts, three phase.
- g. Motors shall be of energy efficient design having a power factor of 85 percent or greater.

Motor Starters:

- a. NEMA ICS and NEC shall apply.
- b. Shall have the following features:
 - 1. Enclosed type.
 - 2. Circuit breakers and safety switches within the motor controller enclosures shall have external operating handles with lock-open padlocking provisions and shall indicate the ON and OFF positions.
 - 3. Motor Control Circuits:
 - a. Shall operate at not more than 120 volts.
 - b. Shall be grounded except as follows:
 - (1) Where isolated control circuits are used.
 - (2) Where manufacturers of equipment assemblies recommend that the control circuits be isolated.
 - c. Incorporate a separate, heavy duty, control transformer within each motor controller enclosure to provide the control voltage for each motor operating over 120 volts.
 - d. Incorporate over current protection for control power transformers in accordance with the NEC.
 - 4. Auxiliary contacts, H-O-A selector switches pilot lights, push buttons and other devices and accessories as shown on the drawings or otherwise required.
 - 5. Motor Controller Enclosures:
 - a. Motor controller enclosures shall be the NEMA types which are the most suitable for the environmental conditions where the motor controllers are being installed.
 - b. Doors shall be mechanically interlocked to prevent opening unless the breaker or switch within the enclosure is open.
 - c. Thoroughly clean and paint the enclosures at the factory with manufacturer's prime coat and standard finish.
 - d. Motor controllers incorporated with equipment assemblies shall also be designed for the specific requirements of the assemblies.
 - e. For motor controllers being installed in existing motor control centers or panel boards, coordinate with the existing centers or panel boards.

Conduits, Fittings, and Electrical Wire:

- a. All electrical wire shall be copper, heat resistant grade, thermoplastic insulated. Control wiring shall be (stranded) THHN/THWN or equal. Intermediate wall conduit is required. Provide conduit trapeze hangers.
- b. All power wiring shall have a minimum conduit size of 3/4 inch in diameter. Color coding of all wiring shall be in accordance with established VA medical center criteria.
- c. All low voltage communication wire used for data management systems, liquid supply systems and intercoms shall be installed in minimum 1/2 inch diameter protective conduit. Wire nuts shall not be used for any connections.
- d. Wire nuts shall not be used and solderless connectors shall have insulation grip. Wiring shall have adequate slack to provide strain relief. Wire nuts are only acceptable for electrical installation of motors and terminal boxes.
- e. Wiring shall be provided between motors, controllers, timers, push buttons, starters and limit switches installed on or within the equipment and shall be done with materials specified as applicable, except liquid tight flexible conduit shall be used where required for belt adjustment by moving a motor or for vibration isolation.
- f. All wiring shall terminate in connection boxes with provisions for connections beyond the machine; each conductor shall be identified by a different color.

Cable and Wire (Power and Lighting):

- a. Cable and Wire: Federal Specification J-C-30, except as hereinafter specified.
- b. Single Conductor:
 1. Annealed copper.
 2. Strands for sizes No. 8 and larger. Solid for sizes No. 10 and smaller.
 3. Minimum size No. 12, except where larger sizes are used.
- c. Insulation:
 1. XHHW or dual rated THHN-THWN, UL 44, 83 and 493.
 2. Isolated power system wiring: Type XHHW with a dielectric constant of 3.5 or less.
- d. Color Code:
 1. Secondary service, feeder, and branch circuit conductors shall be color coded as follows:

208/120 Volt	Phase	480/277 Volt
Black	A	Brown
Red	B	Orange
Blue	C	Yellow
White	Neutral	Gray or white with colored (other than green), tracer.

2. Use solid color compound or solid color coating for No. 12 and No. 10 branch circuit conductors and neutral sizes.
3. Phase conductors No. 8 and larger, color code using one of the following:
 - a. Solid color compound or solid color coating.
 - b. Stripes, bands, or hash marks of color specified above.
 - c. Colored as specified using 3/4 inch wide tape. Apply tape in half overlapping turns for a minimum of three inches for terminal points and in junction boxes at pull boxes. Apply the last two laps of tape with no tension to prevent possible unwinding. Where cable markings are covered by tape, apply tags to cable stating size and insulation type.

4. For modifications and additions to existing wiring systems, color coding shall conform to the existing wiring system.

Splices and Joints:

- a. In accordance with UL 486 A, B, D and NEC.
- b. Branch circuits (No. 10 and smaller):
 1. Connectors: Solder-less, screw-on, reusable pressure cable type, 600 volt, 105 degree C, with integral insulation approved for copper and aluminum conductors.
 2. The integral insulator shall have a skirt to completely cover the stripped wires.
 3. The number, size, and combination of conductors, as listed on the manufacturers packaging, shall be strictly complied with.

Feeder Circuits:

- a. Connectors shall be indent, hex screw, or bolt clamp-type of high conductivity and corrosion-resistant material.
- b. Field installed compression connectors for cable sizes 250 MCM and larger shall have not less than two clamping elements or compression indents per wire.
- c. Insulate splices and joints with materials approved for the particular use, location, voltage, and temperature. Insulate with not less than that of the conductor level that is being joined.
- d. Plastic electrical insulating tape: Federal Specification HH-I-595 shall apply (flame retardant, cold and weather resistant).

Control Wiring:

- a. Unless otherwise specified, size control wiring as specified for power and lighting wiring, except the minimum size shall be not less than No. 14.
- b. Size wire large enough so that the voltage drop under in-rush conditions does not adversely affect operation of the controls.

Wire Lubricating Compound:

- a. Suitable for the wire insulation and conduit it is used with, and shall not harden or become adhesive.
- b. Shall not be used on wire for isolated type electrical power systems.

Fireproofing Tape:

- a. The tape shall consist of a flexible, conformable fabric of organic composition coated one side with flame-retardant elastomeric.
- b. The tape shall be self-extinguishing and shall not support combustion. It shall be arc-proof and fireproof.
- c. The tape shall not deteriorate when subjected to water, gases, salt water, sewage, or fungus and shall be resistant to sunlight and ultraviolet light.

- d. The finished application shall withstand 200 amps for not less than 30 seconds.
- e. Securing Tape: Glass cloth electrical tape shall not be less than 7 mils thick and 3/4 inch wide.

Execution:

- a. Installation:
 - 1. Install in accordance with the NEC.
 - 2. Install all wiring in raceway systems, except where direct burial is shown.
 - 3. Splice cables and wires only in outlet boxes, junction boxes, pull boxes, manholes, or handholds.
 - 4. For panel boards, cabinets, wire ways, switches, and equipment assemblies, neatly form, train and tie the cables in individual circuits.
 - 5. Seal cable and wire entering a building from underground between the wire and conduit, where the cable exits the conduit, with a non hardening approved compound.
- 6. Wire Pulling:
 - a. Provide installation equipment that will prevent the cutting or abrasion of insulation during pulling of cables.
 - b. Use ropes for pulling feeders made of non-metallic material.
 - c. Attach pulling lines for feeders by means of either woven basket grips or pulling eyes attached directly to the conductors, as approved by designated COTR.
 - d. Pull in together multiple cables in a single conduit.

Installation in Manholes:

- a. Install and support cables in manholes on the steel racks with porcelain or equal insulators. Train the cables around the manhole walls, but do not bend to a radius less than six times the overall cable diameter.
- b. Fireproofing:
 - 1. Where low voltage cables are installed in the same manholes with high voltage cables, also cover the low voltage cables with arc-proof and fireproof tape.
 - 2. Use tape of the same type as used for the high voltage cables, and apply the tape in a single layer, one-half lapped or as recommended by the manufacturer. Install the tape with the coated side towards the cable and extend it not less than one inch into each duct.
 - 3. Secure the tape in place by a random wrap of glass cloth tape.

Splice Installation:

- a. Splices and terminations shall be mechanically and electrically secure.
- b. Where the COTR determines that unsatisfactory splices or terminations have been installed, remove the devices and install approved devices at no additional cost to the Government.

Control, Communication and Signal Wiring Installation:

- a. Install wiring and connect to perform the functions intended.

- b. Install a separate power supply circuit for each system so the malfunctions in any system will not affect other systems.
- c. Where power supply circuits are not shown for systems, connect them to the nearest panel boards of suitable voltages which are intended to supply such systems and have suitable spare circuit breakers or space for installation.
- d. Install a red warning indicator and a lock-on device on the handle of the branch circuit breaker for the power supply circuit for each system to prevent accidental de-energizing of the system.
- e. System voltages shall not exceed 120 volts and shall be lower voltages required by NEC.

Control, Communication and Signal System Identification:

- a. Install a permanent wire marker on each wire at each termination.
- b. Identifying numbers and letters on the wire markers shall correspond to those on the wiring diagrams used for installing the systems.
- c. Wire markers shall retain their markings after cleaning.
- d. In each manhole and handhold, install embossed brass tags to identify the system serviced and its function.

Feeder:

- a. In each interior, pull box and junction box, install metal tags on each circuit cable and wire to clearly designate their circuit identification and voltage.
- b. In manholes and handholds, provide tags of embossed brass type, and also show the cable type and voltage rating. Attach the tags to the cables with slip free plastic lacing units.

Electrical Identification:

- a. Nameplates - center on device, cover plate, or enclosure.
 - 1. Use designations defined in the contract documents. Indicate loads served using designations from electrical schedules and designations from the trade furnishing the equipment served.
 - 2. Lettering shall include name of equipment including the textile care processing equipment, the specific unit number, and any reference to ON/OFF or other instructions that are applicable.
 - 3. All labeling shall be on laminated plastic nameplates.
 - 4. Nameplates shall be laminated phenolic with a Blue surface and white core. Use 1/16 inch thick material for plates up to 2 inch X 4 inch. For larger sizes, use 1/8 inch thick material.
 - 5. Name plates shall be installed with screws on equipment and panels.

Grounding and Conduit:

- a. Ground in accordance with the NEC and as hereinafter specified.
 - 1. Equipment Grounding:

- a. Metallic structures, enclosures, raceways, junction boxes, outlet boxes, cabinets, machine frames, and other conductive items in close proximity with electrical circuits shall be grounded for personnel safety and to provide a low impedance path of possible ground fault currents.
2. Conduit Systems:
 - a. Ground all metallic conduit systems.
 - b. Conduit provided for mechanical protection containing only a grounding conductor, bond to that conductor at entrance and exit from the conduit.
 - c. All conduit to be 3/4" minimum diameter.
3. Feeders and Branch Circuits: Install green grounding conductors with feeders and branch circuits as follows:
 - a. Feeders.
 - b. Fixed Equipment.
 - c. Motors and motor controllers.
 - d. Items of equipment where the final connection is made with flexible metal conduit shall have a grounding wire.
4. Boxes, Cabinets, Enclosures, and Panel Boards:
 - a. Bond the grounding wires to each pull box, junction box, cabinets, and other enclosures through which the ground wires pass (except for special grounding systems).
 - b. Provide lugs in each box and enclosure for ground wire termination.
5. Fixed electrical equipment shall have a ground lug installed for termination of the green conductor.
6. Motors and Starters:
 - a. Provide lugs in motor terminal box and starter housing for ground wire termination.
 - b. Make ground wire connections to ground bus in motor control centers.
7. Fixed electrical appliances and equipment shall have a ground lug installed for termination of the green ground conductor.
 - a. Black plates for 120/208 volt systems.
 - b. Blue plates for 277/480 volt systems.
8. Grounding shall not be to water piping, but ground wire must be continuous to service main.
9. Lettering shall be condensed gothic. The space between lines shall be equal to width of the letters. Use 1/4 inch minimum height letters which occupy four to the inch. Increase letter size to 1/2 inch on larger plates.
10. Name plates shall be installed parallel to equipment using screws.

Wiring Devices - Description: This section includes the furnishing, installation, and connection of wiring devices.

1. National Fire Protection Association (NFPA):
No. 70...National Electrical Code (NEC)
2. Underwriters Laboratories, Inc., (UL):

- 5 Raceways and Fittings, Electrical Surface Metal
- 20 General-Use Snap Switches
- 231 Power Outlets, Electrical
- 467 Grounding and Bonding Equipment, Electrical
- 498 Attachment Plugs and Receptacles, Electrical
- 514 Outlet Boxes and Fittings, Electrical
- 943 Ground Fault Circuit Interrupters
- 1010 Receptacle-Plug Combinations, Electrical, for use in Hazardous Locations
- 1054 Switches, Special Use
- 3. National Electrical Manufacturers Association (NEMA):
 - WD 1 General Purpose Wiring Devices
 - WD 3 A/C General-Use Snap Switches
 - WD 5 Specific-Purpose Wiring Devices

Products:

- a. Receptacles:
 - 1. General: All receptacles shall be listed by Underwriters Laboratories, Inc.
 - a. Mounting screws, mounting strap and terminal screws shall be brass or a copper alloy metal.
 - b. Receptacles shall have provisions for back wiring from four (minimum) separate wiring holes and side wiring from four captivity held binding screws.
 - 2. Four-plex receptacles shall be single phase, 20 ampere, 120 volts, 2-pole, 3-wire, NEMA 5-2OR. The duplex type shall have break-off feature for two circuit operation. The ungrounded pole of each receptacle shall be provided with a separate terminal.
 - a. Bodies shall be white in color.
 - b. Four-plex Receptacles with Ground Fault Interrupter: Shall be an integral unit suitable for mounting in a standard outlet box.
 - (1) Ground fault interrupter shall consist of a differential current transformer, solid state sensing circuitry and a circuit interrupter switch. It shall be rated for operation on a 160 Hz, 120 volt, 20 ampere branch circuit. Device shall have nominal sensitivity to ground leakage current of five milliamperes and shall function to interrupt the current supply for any value of ground leakage current above five milliamperes on the load side of the device. Device shall have a minimum nominal tripping time of 1/30th of a second.
 - c. Receptacles 20, 30 and 50 ampere, 250 volt: Shall be complete with appropriate cord grip plug.
 - d. Weatherproof Receptacles: Shall consist of a duplex receptacle, mounted in box with gasket, weatherproof, cast metal cover plate and cap over each receptacle opening. The cap shall be permanently

attached to the cover plate by a spring hinged flap. The weatherproof integrity shall not be affected when heavy duty specification or hospital grade attachment plug caps are inserted. Cover plates on outlet boxes mounted flush in the wall shall be gasket to the wall in a watertight manner.

b. Wall Plates:

1. Wall plates for switches and receptacles shall be as specified by the COTR for special decor. Oversize plates will not be acceptable.
2. Color shall be white unless otherwise specified.
3. Standard NEMA design, so that products of different manufacturers will be interchangeable.
4. For receptacles or switches mounted adjacent to each other, wall plates shall be common for each group of receptacles or switches.
5. Provide 4-Plex receptacle at each equipment location for mechanics use.

c. Labeling:

1. Marking Pen Use for all junction and outlet boxes or portions of junction boxes with power wiring, communication systems, pull and junction boxes, and conduit installed for future use. For all boxes with power wiring, indicate appropriate panel and circuit number(s) where applicable, etc.. Label inside covers in finished areas and outside covers in unfinished areas. Use permanent, waterproof, quick drying marking pen.
2. Label Tapes: Label each conductor at origin and destination points and at all junction boxes where two or more feeder or control circuits are present. Identify with branch circuit or feeder number for power and lighting circuits, and with control conductors, number as indicated on schematic and interconnection diagrams or equipment manufacturer's drawings for control wiring. Use cloth, plastic, split sleeve or tubing type wire and cable label markers.

Motor Control Circuit:

Each motor shall have a controller of the magnetic across-the-line type having a separate pole for each ungrounded conductor. In addition, timers, limit switches, remote control push-button switches, signals and indicating lights shall be provided as necessary to perform the intended functions.

Panel Boards:

Panel boards shall be installed in accordance with UL, NEMA, NEC requirements. All panel boards and components shall be the product of the same manufacturer. All panels shall be dead front types, i.e., safety variety.

All panel boards shall be completely factory assembled with molded case circuit breakers. Panels shall have main breakers or main lugs, bus size, voltage, phase, top or bottom feed, and flush or surface mounting.

a. Panel boards shall have the following features:

1. Non-reduced size copper or aluminum bus bars, and connection straps bolted together and rigidly supported by molded insulators. Bus bar taps for panels with single pole branches shall be arranged for sequence phasing of branch circuit devices.
2. Full size neutral bar, mounted on insulated supports.

3. Ground bar with sufficient terminals for grounding all wires.
4. Buses braided for the available short circuit current, but not less than 22,000 amperes symmetrical.
5. All breakers and phase bus connections shall be arranged so that it will be possible to substitute a 2 pole breaker for two single pole breakers and a 3 pole breaker for three single pole breakers, when trip is 30 amps or less and frame size is 100 amps or less, without having to drill and tap the main bus bars at bus straps.
6. Design interior so that protective devices can be replaced without moving other units.
7. Where designated on panel as space, include all necessary bussing device support and connections. Provide blank covers for each space.

b. Cabinets:

Provide galvanized steel cabinets to house panel boards. Cabinets shall be factory primed and suitably treated with corrosion resistant paint.

Cabinets shall meet all NEC codes and will not have ventilating canopies, but have distribution panels formed of sheet steel with end and side distribution panels welded, riveted, or bolted.

Provide a minimum of four interior mounted studs and necessary hardware for in and out adjustment of panel interiors.

c. Doors:

Furnish doors with flush type latch and manufacturer's standard lock. Doors over 48 inches in height shall have a vault handle and three point catch and provide concealed butt hinges welded to doors and trims.

D. Breakers:

Breakers shall be UL listed and labeled in accordance with the NEC. Circuit breaker panel boards shall be bolt on type on phase bus bar or branch circuit bar. Minimum breaker size of 20 amp is required, 22,000 AIC rated.

Molded case circuit breakers shall have automatic, trip free, non-adjustable, inverse time, and instantaneous magnetic trips for 100 ampere frame or less.

1. Breaker features shall include the following:
 - a. Rugged, integral housing of molded insulating material, silver alloy contacts and arc quenchers and phase barriers for each pole.
 - b. Trip elements for each pole, thermal magnetic types with long time delay and instantaneous processes and a common trip bar for all poles.
 - c. Line connections will always be bolted.
 - d. Provide hoisting points at each piece of large component.

9. PLUMBING SYSTEMS:

Piping:

Interior domestic water piping shall be copper tube, type L drawn per ASTM B88. Fittings for copper tube will be wrought copper or bronze castings conforming to ANSI B16.18 and B16.22. Unions shall be

bronze in accordance with federal specification WW-U-516 with solder or braze joints including adapters for joining screwed pipe to copper tubing.

Traps:

Provide on all sanitary branch waste connections from fixtures or equipment not provided with traps. Exposed brass shall be polished brass chromium plated with nipple and set screw escutcheons. Concealed traps may be rough cast brass. Slip joints are not permitted on sewer side of trap. Traps shall correspond to fittings on cast iron soil pipe or steel pipe respectively, and size shall be as required by connected service or fixture.

Back flow Preventers:

Provide a back flow prevention device at any point in the plumbing system where the potable water supply comes in contact with a potential source of contamination. Device shall be certified by the American Society of Sanitary Engineers. Listed below is a partial list of connection to the potable water system which shall be protected against back flow or back siphonage:

- a. Atmospheric Vacuum Breaker:
 - 1. Hose bibs and sinks with threaded outlets.

Dielectric Fittings: Provide dielectric couplings or unions between ferrous and non-ferrous pipe.

Shock or Water Hammer Arrestors:

PDI-WH-201, ASSE 1010, or ANSI A112.26.1, size as required. Units shall be the standard factory prefabricated products of a manufacturer regularly engaged in the production of such devices.

Valves:

Ball valves in accordance with Federal Spec. WW-V-35 with solder end connections for hot and cold water.

Installation:

Shall comply with the National Standard Plumbing Code and the following:

- a. General:
 - 1. Install branch piping for water, waste and gas (if applicable), from the respective piping systems and connect to all fixtures, valves, cocks, outlets, casework, cabinets and equipment.
 - 2. Install trim and fittings provided with casework, cabinets, and laboratory equipment, but not installed at point of fabrications.
 - 3. Pipe shall be round and straight. Cutting shall be done with proper tools. Pipe, except for plastic and glass, shall be reamed to full size after cutting.
 - 4. All pipe runs shall be laid out to avoid interference with other work.
 - 5. Install valves with stem in horizontal position whenever possible. All valves shall be easily accessible.
- b. Piping shall conform to the following:
 - 1. Waste, Storm Water Drain and Vent: Drain to main stack as follows:

Pipe Size	Minimum Pitch
3 inch and smaller	1/4 inch to the foot
4 inch and larger	1/8 inch to the foot

2. Exhaust Vent: Extend exhaust vents separately through roof. Sanitary vents shall not connect to exhaust vents.

3. Domestic Water:

a. Where possible, grade all lines to facilitate drainage. Provide drain valves at bottom of risers. All unnecessary traps in circulating lines shall be avoided.

b. Connect branch lines at bottom of main serving fixtures below and pitch down so that main may be drained through fixture. Connect branch lines to top of main serving only fixtures located on floor above.

10. PREFABRICATED ROOF CURBS:

a. Galvanized steel or extruded aluminum 12 inches overall height, continuous welded corner seams, treated wood nailer, 1-1/2 inch thick, 3 pound density rigid mineral fiberboard insulation with metal liner, and built-in curved cantilever strip. Provide raised cantilever strip (recessed mounting flange) to start at the upper surface of the insulation. Curbs shall be constructed for pitched roof or ridge mounting as required to keep top of curb level.

11. STEAM PIPING SYSTEMS:

a. Pipe: Steel; seamless, ASTM A53, Grade B or ASTM A106, Grade B; electric resistance welded ASTM A53, Grade B; Schedule 40. Standard weight permitted for pipe sizes 12 inches and above.

b. Joints: Butt-welded for pipe sizes 2-1/2 inches and above; threaded, butt-welded, or socket-welded for pipe sizes 2 inches and below.

c. Fittings:

1. Welded Joints: Steel, ASTM A234, Grade B, ANSI B16.9, same schedule as adjoining pipe, all elbows long radius.

2. Threaded Joints: Malleable iron, ASTM A47 or A197, ANSI B16.3, 300 pounds class; or ductile iron, ASTM A395, 300 pound class.

3. Socket-welded joints: Forged steel, ANSI B16.11, 2000 pound class.

d. Unions:

On piping 2 inches and under, 300 pound malleable or ductile iron.

e. Flanges:

Weld neck, ANSI B16.5, forged steel, ASTM A105. Pressure class 150 psi, except 300 psi class required adjacent to 250 and 300 psi class valves.

Steam Condensate Piping:

- a. Pipe: Copper Type L (ASTM B88).

Dielectric Fittings:

Provide threaded dielectric unions for pipe sizes 2 inches and under. For 2-1/2 inches and above, provide copper and steel flanges electrically isolated at gasket and by sleeves at bolts. Fittings on cold water and soft water lines shall be rated for 100 psi, 80 degrees F. Fitting on condensate lines shall be rated at 100 PSI, 212 degrees F. Fittings on other services shall be rated for the maximum pressure and temperature conditions of the service.

Valves:

- a. Valves for particular services are generally specified as Type Numbers. The Type Numbers are defined below. All valves of the same type shall be the products of a single manufacturer. Comply with MSS SP-45, MSS SP-80 and ANSI B31.1. Construct gate and globe valves so that packing can be replaced while the valve is under full working pressure. Design valves for the service fluids and conditions. Pressure-temperature ratings listed are minimum requirements. Packing and gaskets must be asbestos-free.

- b. Valve Type Designations:

- 1. Gate Valves:

- a. Type 101: Rated for 150 PSI at 500 degrees F, ASTM A216 WCB cast steel body, 11-1/2 to 13 percent chromium stainless steel flexible wedge and hard faced (stellite) or nickel copper alloy seats, 150 pound ANSI flanged ends, OS&Y, rising stem, bolted bonnet.

- (1) Provide factory installed globe-valved bypass. Conform to MSS SP-45.
- (2) Drill and tap bosses for connection of drains. Conform to MSS SP-45.

- b. Type 104: Rated for 200 psig saturated steam, 400 psig WOG, ASTM B61 bronze body, bronze wedges and monel or stainless steel seats, threaded ends, rising stem, union bonnet.

- c. Type 107: Rated for 150 psig at 500 degrees F, ASTM A395 ductile iron body, 11-1/2 to 13 percent chromium stainless steel wedge and hard faced (satellite) steel or nickel copper alloy seats, 150 pound ANSI flanged ends, OS&Y, rising stem, bolted bonnet.

- (1) Provide factory-installed globe-valved bypass. Conform to MSS SP-45.
- (2) Drill and tap bosses for connection of drains. Conform to MSS-SP-45.

- d. Type 205: Rated for 200 psig saturated steam, 400 psig WOG, ASTM B61 bronze body, hardened stainless steel disc and seat, threaded ends, rising stem, union bonnet, renewable seat rings.

- c. Steam (above 60 psig), all valves in steam pressure reducing stations, drains on steam services above 115 psig and drains on boiler feed lines:

- 1. Gate valves, 2 inches and under: Type 104.
- 2. Gate valves, 2-1/2 inches and above: Type 101 or 107.
- 3. Gate valves, 2-1/2 inches and above: type 101.
- 4. Globe valves, 2 inches and under: Type 205

5. Ball Valves:

- a. Type 501: Rated for 150 psi at 365 degrees F, 600 psi at 200 degrees F, Type 316 stainless steel body, ball and stem; reinforced TFE seat, stem seal and thrust washer; end entry, threaded ends, one-fourth turn to open.
- b. Type 502: Rated for 150 psi at 365 degrees F, 250 psi at 250 degrees F, bronze body, reinforced TFE seat, stem seal and thrust washer; end entry, threaded ends, one-fourth turn to open.

6. Gas Vent Cocks:

- a. Type 601: Rated for 30 psig at 100 degrees F, bronze body, tee handle, ground plug, rated for tight shut-off on fuel gas service.

Strainers, Y-Type:

- a. Provide on steam, water and compressed air piping systems.
- b. Type: Open-end removable cylindrical screen. Threaded blow-off connection.
- c. Construction:
 - 1. Steam Service 61 to 150 psig: Rated for 150 psig saturated steam. Rated for 150 psi ANSI flanged ends, cast steel, or 250 psig ANSI flanged ends, cast iron, or pipe sizes above 2 inches. Cast iron or bronze, threaded ends, for pipe sizes 2 inches and under.
- d. Screen: Monel or stainless steel, free area not less than 2-1/2 times flow area of pipe. Diameter of openings shall be 0.05 inch or less on steam service, 0.06 inch or less on water stainless steel screen liner on all strainers installed upstream of water meters or control valves.
- e. Accessories: Gate type valve and quick-couple hose connection on all blow-off connections. These items are specified elsewhere in this enclosure.

Steam Traps:

- a. Each type not included as part of the machinery shall be furnished by a single manufacturer.
- b. Type: Suitable for intended service and for use under system operating conditions.
- c. Bodies: Bronze, cast iron, or steel. Construction shall permit ease of removal and servicing working parts without disturbing connected piping.
- d. Floats: Shall be copper or stainless steel.
- e. Valves: Shall be suitable hardened and corrosion resistant alloy such as chrome-steel, stainless steel, or monel metal.
- f. Mechanism and Thermostatic Elements: Shall be brass, copper, stainless steel, or corrosion resistant alloy. Bimetallic strip air vent on inverted bucket traps.
- g. Identification: Label each trap with an identification number keyed to what is shown on shop drawings approved by VA. Label shall be a metal.

Gas Service Connections:

- a. Coated piping will be utilized within 5 feet of exterior walls. Pipe will be black steel, ASTM A53, schedule 40.
- b. All gas piping shall have drip legs installed.
- c. Maximum wall thickness of pipes shall meet ANSI B31.8.

Fittings:

- a. Butt weld fittings are required and shall be wrought steel. ANSI B16.9
- b. Socket Welds are required with threaded fittings and shall be forged steel, ANSI B16.9.
- c. Joints shall be welded in accordance with ANSI B31.8.

Insulation Requirements:

Unless specified in other sections of the specification cellular glass insulation is required for steam and hot water piping. 1.5 inches thick for hot water and 3 inches for steam piping.

All Insulation on piping and equipment shall be terminated square at items not to be insulated, access openings and nameplates. Cover all exposed raw insulation with sealer or jacket material that does match the color of the insulation.

12. BELT DRIVERS:

Belt drivers shall be "V" type. Provide for adjustment of both belt tension and alignment.

- a. Belts: Speeds shall not exceed 5200 feet per minute (fpm).
- b. "V" Belt Size and Sheave Diameter: Minimum Sheave (Motor of Equipment)

"V" Belt Size	Pitch Diameter - Inches
A	3.0
B	5.4
C	9.0
D	13.0
E	21.6

13. AUTOMATIC LUBRICATION OF ALL GEARS AND BEARINGS:

Automatic lubrication shall be incorporated into the system to the maximum extent possible in accordance with manufacturer's available options or recommendations.

General Installation Requirements:

The successful bidder shall have the sole responsibility for ensuring that equipment and installation complies with all Local, State, Federal, VA Construction Standards, and Fire and Safety Codes and Standards.

1. All utilities connection points shall be the successful offeror's responsibility from building entry point to the locations of the new equipment. Should additional utility systems be required, these systems shall be the responsibility of the successful bidder.
2. Should additional utilities be required, these utilities shall be the responsibility of the successful offeror. Utilities are electric, gas, water, steam and air.

3. All exposed utility/ductwork/piping systems and motors that are exposed to floor traffic shall be appropriately guarded and protected.
4. The successful offeror shall furnish all labor and materials necessary for storage and installation of new equipment. Installation shall include, but is not limited to:
 - a. All mounting holes will be utilized for anchoring equipment.
 - b. Any and all penetrations of walls, ceilings and floors for the installation or removal of electrical conduit, pipes, ductwork, liquid supply lines, communication wiring, etc. shall be sealed with a fire retardant material and shall match existing materials on both sides of the penetration. (e.g., concrete, wallboard, etc.).
 - c. If required for offered equipment, structural alterations to the building will be the responsibility of the successful offeror.
 - d. Successful offeror shall be responsible for all control wiring including disconnects interconnections, and conduit. Interconnecting consists of all control wiring, all ductwork, interconnecting pieces of equipment and outside vents, all airlines, and all connections from VA supplied utilities.
 - e. All installation and/or modifications of utilities and building structures, as required, shall match existing materials.
 - f. All pipes, vents, drains, electrical panels and boxes, ductwork, and conduit shall be new.
 - g. All pipes and ductwork shall be insulated. All conduits, air pipes and vents shall be painted. All insulation shall be wrapped with white PVC plastic as indicated below. PVC covering shall be a minimum .020 thickness. Flow markings and identification of all pipes, vents, ductwork and airlines to equipment shall be appropriately marked with a minimum of two (2) inch letters. Spray-painting stencils is not acceptable.

Air Piping	Painted Safety White (Blue identification/flow markings)
Air Intake Ductwork	Safety White (Black/Yellow identification and flow markings)
Air Exhaust Dryer Ductwork	Aluminum (Black/Yellow identification and flow markings)
Hot Water Piping	Safety White (Black/Yellow identification and flow markings)
Tempered Water Piping	Safety White (Black/Yellow identification and flow markings)
Reuse Water	Safety White (Black/Yellow identification and flow markings)
Soft Water	Safety White (Black/Yellow identification and flow markings)
Vent pipe	Flat Black (Black/Yellow identification and flow markings)
Drain Line	Flat Black (Black/Yellow identification and flow markings)
Domestic water	Safety White (Black/Yellow identification and flow markings)
High Pressure Steam	Bright Yellow (Black/Yellow identification and flow markings)
Condensate Return	School Bus Yellow (Black/Yellow identification and flow markings)
Medium Pressure Steam	Medium Yellow (Black/Yellow identification and flow markings)
Gas Piping	Painted Blue (Black/Yellow identification and flow markings)
Fire Suppression Piping	Bright Red (Black/Yellow identification and flow markings)
Outside exposed ductwork Aluminum and sealed weather-proofed to protect from the environment as well as	
All conduits	To match wall and ceiling colors

Background & legend colors shall be in accordance with latest ANSI specifications.

- h. Installation of piping, sleeves, inserts, hangers and equipment for this project shall be in accordance with approved design drawings. Locate drains, piping, sleeves, inserts, hangers and equipment out of the way of windows, doors, openings, light outlets and other services and utilities. All piping shall be installed so as to comply with accepted national and local plumbing practices.
 - i. Holes through concrete and masonry shall be cut with diamond core or concrete saw.
 - j. Hole locations shall not adversely affect strength of structural sections such as ribs or beams. Repair of interior and exterior concrete services of existing drain troughs is required.
 - k. Holes shall be laid out in advance for review by appropriate medical center personnel.
 - l. If necessary to drill through structural sections, Engineering shall be contacted to determine the proper location.
 - m. Install gauges, thermometers, valves and other mechanical and electrical devices with due regard for ease of reading, operating and maintaining. Servicing shall not require dismantling of adjacent equipment, electric or pipe work.
 - n. Valve Tags: Furnish and install valve tags on all air, gas and water valves on equipment and connection points of the dryer. Tags shall be engraved, black filled numbers and letters not less than ½ inch high for number designation and not less than ¼ inch for service designation on 19 gauge 1-1/2 inch round brass disc; tags shall be attached with brass hooks or brass chain.
 - o. Contractor shall provide two (2) valve lists on typed plastic coated cards, sized 8-1/2 inch X 11 inch showing tag number, valve type, valve function and location area of valve for each service or system to the designated COR and inspectors.
 - p. Steam Trap Tags: Furnish and install all steam trap tags on equipment and connection points of the textile care processing equipment. Tags shall be engraved, black filled numbers and letters not less than ½ inch high for number designation and not less than ¼ inch for service designation on 19 gauge 1-1/2 inch round brass disc; tags shall be attached with brass hooks or brass chain.
 - q. Contractor shall provide two (2) steam trap lists on typed plastic coated cards, sized 8-1/2 inch X 11 inch showing tag number, manufacturer, function and area of control for each service or system, to the designated COR and inspectors.
 - r. Equipment, motors, piping, ductwork and any other components or materials shall be protected against physical damage from carts by guardrails.
 - s. Damaged equipment frame, doors, panels, cylinder, cylinder panels, control box etc. shall be placed in operating condition or returned to source of supply for repair or replacement, as determined by the inspectors or contracting officer.
 - t. Install lighting fixtures in the new finishing area over all new work stations and equipment for adequate illumination.
5. A minimum clearance of 36 inches between moving parts and fixed objects and 24 inches between non-moving parts and fixed objects is required.
6. Belts, chains, pulleys, couplings, motor shafts, gears or other moving parts shall be fully guarded in accordance with OSHA 1910.219. Guard parts shall be rigid and suitably secured and be readily removable without disassembling the guarded unit.

14. PROTECTION:

The successful offeror shall provide any protective methodology or devices necessary to protect the entire system from:

- (1) Damage due to electrical power problems, including brownouts, emergency power interruptions, electrical surges, sags and electrical storms.
- (2) Data loss due to electrical power problems. All equipment electronics shall be protected with a power monitor.

15. TECHNICAL INDUSTRY STANDARDS

The supplies or equipment required by this invitation for bid or request for proposal must conform to the standards of the following:

National Electrical Manufacturers Association (NEMA):

- A. MG1....Motors and Generators.
- B. MG2....Safety Standard for Construction and Guide for Selections, Installation and Use.

National Fire Protection Association (NFPA):

- A. ALL NFPA Standards and codes

American National Standards Institute (ANSI): Z8.1-1972 Safety Requirements for Commercial Laundry and Dry Cleaning Operations.

Occupational Safety and Health Administration (OSHA): 29 CFR 1910.

16. CITY, COUNTY, STATE, VA AND NATIONAL ENVIRONMENTAL, FIRE AND SAFETY REGULATIONS/STANDARDS

The successful bidder or offeror will be required to submit proof that the item(s) furnished conform to this requirement. This proof may be in the form of a label or seal affixed to the equipment or supplies, warranting that they have been tested in accordance with and conform to the specified standards. The seal or label of any nationally recognized laboratory such as those listed by the National Fire Protection Association, in the current edition of their publication "Research on Fire," is acceptable. Proof may also be furnished in the form of a certificate from one of these laboratories certifying that the item(s) furnished have been tested in accordance with and conform to the specified standards.

17. TECHNICAL CERTIFICATE OF COMPLIANCE:

Technical certificates of compliance (applicable to the item of equipment furnished) shall be submitted at the time and place of inspection. (Note: Inspection will be conducted by VA after installation and shakedown is completed).

18. SERVICE DATA MANUAL:

- (a) The successful bidder will supply two hard cover and two CD copies of operation/service (maintenance) manuals with each piece of equipment specified in the solicitation and resulting purchase order. As a minimum, the manual(s) shall be bound and equivalent to the manual(s) provided the manufacturer's designated field service representative as well as comply with all the requirements in paragraphs (b) through (i) of this clause. Sections, headings and section sequence identified in (b) through (i) of this clause are typical and may vary between manufacturers. Variances in the sections, headings and

section sequence, however, do not relieve the manufacturer of his/her responsibility in supplying the technical data called for therein.

(b) Title Page and Front Matter. The title page shall include the equipment nomenclature, model number, effective date of the manual and the manufacturer's name and address. If the manual applies to a particular version of the equipment only, the title page shall also list that equipment's serial number. Front matter shall consist of the Table of Contents, List of Tables, List of Illustrations and a frontispiece (photograph or line drawing) depicting the equipment.

(c) Section I, General Description. This section shall provide a generalized description of the equipment or devices and shall describe its purpose or intended use. Included in this section will be a table listing all pertinent equipment specifications, power requirements, environmental limitations and physical dimensions.

(d) Section II, Installation. Section II shall provide pertinent installation information. It shall list all input and output connectors using applicable reference designators and functional names as they appear on the equipment. Included in this listing will be a brief description of the function of each connector along with the connector type. Instructions shall be provided as to the recommended method of repacking the equipment for shipment (packing material, labeling, etc.)

(e) Section III, Operation. Section III will fully describe the operation of the equipment and shall include a listing of each control with a brief description of its function and step-by-step procedures for each operating mode. Procedures will use the control(s) nomenclature as it appears on the equipment and will be keyed to one or more illustrations of the equipment. Operating procedures will include any preoperational checks, calibration adjustments and operation tests. Notes, cautions and warnings shall be set off from the text body so they may easily be recognizable and will draw the attention of the reader. Illustrations should be used wherever possible depicting equipment connections for test, calibration, patient monitoring and measurements. For large, complex and/or highly versatile equipment capable of many operating modes and in other instances where the Operation Section is quite large, operational information may be bound separately in the form of an Operators Manual. The providing of a separate Operators manual does not relieve the supplier of his responsibility for providing the minimum acceptable maintenance data specified herein.

Where applicable, flow charts and narrative descriptions of software shall be provided. If programming is either built-in and/or user modifiable, a complete software listing shall be supplied. Equipment items with software packages shall also include diagnostic routines and sample outputs. Submission information shall be given in the Maintenance Section to identify equipment malfunctions which are software related.

(f) Section IV, Principles of Operation. This section shall describe in narrative form the principles of operation of the equipment. Circuitry shall be discussed in sufficient detail to be understood by technicians and engineers who possess a working knowledge of electronics and a general familiarity with the overall application of the devices. The circuit descriptions should start at the overall equipment level and proceed to more detailed circuit descriptions. The overall description shall be keyed to a functional block diagram of the equipment. Circuit descriptions shall be keyed to schematic diagrams discussed in paragraph (i) below. It is recommended that for complex or special circuits, simplified schematics should be included in this section.

(g) Section V, Maintenance. The maintenance section shall contain a list of recommended test equipment, special tools, preventive maintenance instructions and corrective information. The list of test equipment shall be that recommended by the manufacturer and shall be designated by manufacturer and model number. Special tools are those items not commercially available or those that are designed specifically for the equipment being supplied. Sufficient data will be provided to enable their purchase by VA. Preventive maintenance instructions shall consist of those recommended by the manufacturer to preclude unnecessary failures. Procedures and the recommended frequency of performance shall be included for visual inspection, cleaning, lubricating, mechanical adjustments and circuit calibration. Corrective maintenance shall consist of the data necessary to troubleshoot and rectify a problem and shall include procedures for

realigning and testing the equipment. Troubleshooting shall include either a list of test points with the applicable voltage levels or waveforms that would be present under a certain prescribed set of conditions, a troubleshooting chart listing the symptom, probable cause and remedy, or a narrative containing sufficient data to enable a test technician or electronics engineer to determine and locate the probable cause of malfunction. Data shall also be provided describing the preferred method of repairing or replacing discrete components mounted on printed circuit boards or located in areas where special steps must be followed to disassemble the equipment. Procedures shall be included to realign and test the equipment at the completion of repairs and to restore it to its original operating condition. These procedures shall be supported by the necessary waveforms and voltage levels, and data for selecting matched components. Diagrams, either photographic or line, shall show the location of printed circuit board mounted components.

(h) Section VI, Replacement Parts List. The replacement parts list shall list, in alphanumeric order, all electrical/electronic, mechanical and pneumatic components, their description, value and tolerance, true manufacturer and manufacturers' part number.

(i) Section VII, Drawings. Wiring and schematic diagrams shall be included. The drawings will depict the circuitry using standard symbols and shall include the reference designations and component values or type designators. Drawings shall be clear and legible and shall not be engineering or productions sketches.

19. COMMERCIAL INTERIM PAYMENT

(a) Definition: A commercial interim payment is a payment given to the contractor after some work has been done. For the purposes of this contract, delivery of the equipment shall constitute "some work done".

(b) Upon delivery of the equipment, the contractor is entitled to a single interim payment consisting of 80 percent of the purchase price. To receive the interim payment, the contractor shall submit an invoice in the amount of the equipment purchase price. The invoice shall be submitted in accordance with 52.212-4, Contract Terms and Conditions -- Commercial Items, paragraph (g) and the invoice submission instructions provided above.

(c) Verification of the contractor's entitlement to the interim payment shall be accomplished by the medical center providing to the contracting officer a receiving report confirming receipt of the equipment. Upon receipt of the receiving report and the contractor's properly submitted invoice, the contracting officer shall authorize and process the 80 percent interim payment.

(d) The Government shall retain the remaining 20 percent of the purchase price until such time as the installation has been completed and the Government has inspected and accepted the installed equipment.

(e) Commercial interim payments are contract financing payments for prompt payment purposes and therefore are not subject to the interest penalty provisions of the Prompt Payment Act.

20. ACCEPTANCE PROCEDURES

Prior to acceptance of the goods or services provided under this contract, inspection and testing will be performed by, Textile Care Quality Assurance Specialist's, VACO in accordance with this clause. For purposes of determining the payment due date under this contract, and for no other purpose, the date of acceptance of the goods or services provided under this contract shall be the actual date of acceptance by the Government or the number of days after request for inspection indicated herein, whichever is earlier, provided delay in acceptance is not the fault of the contractor.

(a) Upon completion of installation the equipment will be turned over to the hospital for use. The contractor shall furnish, upon completion of installation, a written notice of readiness for inspection to the Contracting Officer, VA National Acquisition Center (NAC). Final acceptance of the equipment and installation will be based upon an inspection and test to be performed at Government expense within thirty (30) calendar days from date of receipt of request for inspection. If equipment passes inspection or if acceptance inspection is not conducted within thirty (30) calendar days from date of receipt of request for inspection, the Government shall accept installation with guarantee date commencing with date of receipt

of notification for inspection. Use of the equipment during the period between completion of installation and inspection and/or inspection and reinspection shall not negate the right on the part of the Government to reject the equipment, should it fail, nor to preclude default action against the contractor in the event of failure to correct deficiencies.

(b) In the event the equipment is rejected, contractor will be advised as to deficiencies which were cause for rejection. It shall be contractor's responsibility to correct reported deficiencies and to advise the Contracting Officer when all corrections have been made and equipment is ready for re-inspection. Re-inspection(s) will be performed by VA Asset Management Service, Textile Care Quality Assurance Specialist's with all costs incurred chargeable to the contractor's account.

(c) If deficiencies found at the time of inspection are corrected within fourteen (14) calendar days from date of notice of rejection, date of acceptance will be the date notice of readiness for the original inspection is received by the Contracting Officer. If corrections are not accomplished within 14 days, the guarantee commencement date shall then be the date notice of readiness for reinspection is received by the Contracting Officer preceding final acceptance.

(d) If acceptance has been made and guarantee period established due to the failure of the Government to perform the inspection within the specified time, this does not waive the rights of the Government to perform an inspection (at the Government's expense) nor does it waive the right of the Government to perform reinspections, if deficiencies are noted, with costs incurred chargeable to the contractor's account. Acceptance of the equipment due to the failure of the Government to perform the inspection within the specified time shall not negate the right on the part of the Government to exercise its rights under the Termination for Cause provisions of the contract in the event the contractor fails to correct the reported deficiencies.

21. EVALUATION - COMMERCIAL ITEMS

(a) The Government will award a contract resulting from this solicitation to the responsible offeror whose offer conforming to the solicitation will be most advantageous to the Government, price and other factors considered. The following factors shall be used to evaluate offers:

1. Technical Capability. The Government will evaluate how well the proposed system design meets the requirement as described in the specifications. The Government will evaluate this capability on the basis of information obtained from the offeror, such as descriptive literature and the technical proposal. The Government may also use any relevant information in its possession or in the public domain. Ability to provide functions that are not required by the specifications but described as "preferred" may increase an offer's rating for this factor. In addition to compliance with the specifications, the items will also be evaluated on the following technical sub factors:

A. SUBFACTOR 1: ENERGY — Equipment proposals will be prioritized based on energy consumption. Credit will be provided to equipment features that save resources over the life of the equipment.

B. SUBFACTOR 2: ERGONOMICS — Proposals will be evaluated based on the amount of descriptive information provided, empirical data to support a position, and third party assessment findings.

C. SUBFACTOR 3: SPACE UTILIZATION — Proposals will be evaluated based on the quality and content of information addressing the requirements requested for space utilization.

D. SUBFACTOR 4: INSTALLATION TIMELINE — Proposals will be evaluated based on the quality and content of information addressing the requirements requested for installation timeline.

E. SUBFACTOR 5: PRODUCTION/STORAGE DEMAND — Proposals will be evaluated based on the quality and content of information addressing the requirements requested for any system that exceeds the minimum volume noted along with the specifics of flow of the systems storage.

2. Price. The Government will evaluate the offeror's proposed price.

3. Quality/Past Performance. The Government will evaluate the offeror's reputation for quality and past performance. By quality and past performance the Government means the offeror's reputation for conforming to specifications and to standards of good workmanship; the offeror's reputation for adherence to contract schedules, including both technical and administrative aspects of performance. The Government will evaluate quality/past performance on the basis of information that may be obtained from the offeror, such as previous commercial and Government contracts. The Government may also use any relevant information in its possession or in the public domain.

4. Work plan. Phasing of the work and schedule for completion are important factors that will be evaluated. Production down time must be kept to a minimum. Bidder's ability to keep the laundry up and running to the maximum extent is an important consideration. Bidder's ability to furnish and install the new equipment quickly, efficiently, and with minimal impact on any other existing operations.

(b) The individual factors are considered to be of equal importance; therefore the non-price factors of technical capability and past performance, when combined, are significantly more important when compared to price.

(c) A written notice of award or acceptance of an offer mailed or otherwise furnished to the successful offeror within the time for acceptance specified in the offer, shall result in a binding contract without further action by either party. Before the offers specified expiration time, the Government may accept an offer (or part of an offer), whether or not there are negotiations after its receipt, unless a written notice of withdrawal is received before award.

22. TIME OF DELIVERY

Delivery shall be made within 120 calendar days after award. The required delivery date will be annotated on each individual delivery order. Delivery dates specified on delivery orders may be adjusted by the contracting officer or stations Contracting Officers Representative (COR) to coincide with the date the hospital will be ready to receive installation. The contracting officer will advise the contractor of the new delivery date at least 45 days prior to the original or adjusted delivery dates.

Truck Delivery: Truck delivery is accepted 8:00 a.m. to 2:30 p.m., local time, Monday through Friday, excluding Federal holidays.

23. GUARANTEE

The contractor guarantees the equipment against defective material, workmanship and performance for a period of two year, said guarantee to run from date of acceptance of the equipment by the Government. The contractor agrees to furnish, without cost to the Government, replacement of all parts and material which are found to be defective during the guarantee period. Replacement of material and parts shall be furnished to the Government at the point of installation, if installation is within the continental United States, or f.o.b. the continental U.S. port to be designated by the contracting officer if installation is outside of the continental United States. Cost of installation of replacement material and parts shall be borne by the contractor.

24. SERVICE

(a) Service during the guarantee period shall be provided within 24 hours of notice from the Chief, Environmental Management Service or his/her designated representative. A routine service request will be issued upon any failure which degrades system performance.

(b) Emergency service by a qualified technician must be provided within 24 hours of notification. Telephone response does not satisfy this requirement. An emergency service request will be issued upon any failure which prevents systems operation and disrupts continued patient care.

(c) Prior to and during the guarantee period, service at other than normal working hours (8:00 a.m. - 5:00 p.m., excluding weekends and holidays), if at the request of the hospital, will be charged at an hourly rate

which is the difference between current regular rate and overtime rate. Otherwise, all services shall be performed at no charge to the Government during this period.

25. AVAILABILITY OF PARTS AND SERVICE

The contractor guarantees availability of servicing and replacement parts for a period of ten (10) years.

26. PERSONS AUTHORIZED TO MAKE CONTRACT CHANGES

The Contracting Officer is the ONLY individual authorized to approve any change in the contract which shall result in an increase or decrease of the contract price or which shall in any way change the terms or conditions of the contract.

27. INSTALLATION

(a) The contractor shall be responsible for determination of and compliance with federal and state or local code requirements, design data, and other factors necessary to design and install the system at each location.

(b) The contractor shall verify the location of extant utilities and shall specify any additional utilities required or any utilities which require relocation or removal. Contractor shall connect to designated utilities in a manner conforming to a nationally recognized code and at a time satisfactory to minimize or preclude disruption to existing functions or clinical services. Contractor shall provide at least two business days notice to the government's on-site representative prior to installation or modification of or connection to utilities. Cables and connections to the hospital-furnished telephone system, if required, are the responsibility of the contractor.

(c) Rigging and special handling costs, if required to move the equipment from dock area to the installation site within the consignee's premises, shall be borne by the contractor.

(d) Contractor is responsible for uncrating of the equipment and removal of associated refuse. The contractor shall remove rubbish and debris from the site daily, unless otherwise directed. Burning is not acceptable. The contractor shall store all materials which cannot be removed daily in an area to be specified by the Contracting Officer's Technical Representative.

(e) The contractor shall be responsible for installation, which consists of assembling, positioning, and mounting of all equipment listed on the delivery order and connections of all cables. The contractor is responsible for furnishing and pulling all interconnecting wiring and cabling, including wiring and cabling to be pulled through conduit and raceways. It is the responsibility of the equipment contractor to install junction boxes; wall/ceiling mounts and support structures it has supplied. The contractor shall be responsible for furnishing all conduit and raceways.

(f) The equipment contractor must provide qualified field engineers or technicians to install and conduct all necessary tests which shall begin within (10) ten days after receipt of notice to proceed from the Contracting Officer.

(g) It shall be the contractor's responsibility to inform the Contracting Officer and Contracting Officer's Technical Representative of any problems as they occur in connection with installation or which shall affect optimum performance once installation is completed. Such matters as inadequacy of power supply, limitations of site or inadequate preparation of site shall be reported prior to start of installation. Installation shall not proceed under such circumstances until authorized by the Contracting Officer.

(h) Once installation is started, it shall be continuous, eight (8) hours per day. Compliance with this requirement shall be manifest by the continuous presence of the engineers or technicians on the job site during the daily working period. Installation shall be continuous, without interruption, until all installation and testing work has been completed. The contractor must provide the physical movement of the equipment from the storage point at final destination, to the area of installation, and the uncrating of the equipment.

(i) In the event that progress of the installation is interrupted through no fault of the contractor, the continuous installation referenced in the preceding paragraphs may be terminated until such time as the cause of delay has been eliminated, and then shall be resumed within twenty-four (24) hours after the contractor has been notified that work may again proceed. Such termination of continuous installation shall be made only after notice has been given to the Contracting Officer. Contractor must notify the Contracting Officer within 48 hours of termination of installation.

28. TRAINING OF OPERATING PERSONNEL

(a) The price quoted shall include contractor responsibility for providing on-site orientation and training of using personnel in operation and care of the equipment furnished. This training shall include actual demonstration and operation of the equipment, preventive maintenance, and any adjustments or other actions which may be undertaken by operating personnel in the event of failure of equipment, provided that such adjustment or action shall in no way jeopardize the Government's rights under contract guarantee clause. Upon completion of installation, this training shall be given by qualified contractor representatives on a date to be determined by the Contracting Officer's Technical Representative and be a minimum of one week. Operator and maintenance training shall not be conducted concurrently.

(b) The contractor shall consult with the Contracting Officer's Technical Representative or person acting in that capacity regarding the time this training will begin. These officials will be responsible for arranging for the presence of personnel to be trained.

(c) The contractor shall provide two on-site follow up training sessions to maintenance and operations staff.

i. The first training shall be conducted 45 days after initial equipment acceptance and consist of four full days to ensure equipment is operating as designed and to provide technical assistance and separate training to operators and maintenance personnel as determined necessary by VA.

ii. The second training shall be conducted as determined when mutually agreeable between the VA and the contractor, but shall be conducted prior to the end of the warranty period and shall be a full week (40 hours).

iii. The second training shall be conducted for all associated equipment components in Item 3 – Overhead Monorail Wash & Dry Soiled Side System(s), and Item 6- Finishing Equipment System (Clean-side). The vendor shall customize the training to best meet the needs of the VA.

iv. The second training will include classroom and hands on instruction. Upon completion of training, maintenance personnel will have a thorough understanding of the operation, maintenance, and repair of the components of the systems equivalent to factory provided training. Additionally, any questions, or concerns, or operational issues by the laundry operational staff shall be addressed as well. Training for the two systems shall not be provided concurrently to allow all affected staff to participate. Number of personnel to receive the training will be determined by the VA.

29. TECHNICAL VOLUME CONTENTS

Offerors shall provide information as described below. Failure to submit complete information in the manner described below for either the Business or Technical Proposal may be considered a "no response" and exclude the proposal from further consideration.

The offeror shall submit its proposal in two volumes in the format and quantities described below:

VOLUME	VOLUME TITLE	NUMBER OF COPIES
I	BUSINESS	2
II	TECHNICAL	6

The volumes shall be submitted in a sealed envelope or box. The envelope shall be addressed to the office specified in the solicitation and shall show the time specified for receipt, the solicitation number, and the name and address of the offeror.

(1) **Business Volume Content.** The Business volume shall contain:

a. **Pricing Proposal:** The offeror's pricing proposal, consisting of a properly completed and signed solicitation document as specified in Block 28 of Standard Form 1449. Offerors shall complete Blocks 30a, 30b, and 30c of the Standard Form 1449, and complete all certifications contained in Part VII, Offeror's Representations and Certifications. All cost or price information shall be included in the pricing proposal. The offeror's DUNS number must be shown on the SF 1449.

(2) **Technical Volume Content:** No cost or price information shall be included in the Technical Proposal. Technical proposal should list the offeror's capability to meet each specification, especially if the descriptive literature does not contain the required information. The offeror shall provide:

a. **Textile Care Processing Equipment Layout Drawings (for information only):** Submit descriptive literature, technical proposals, and 1/8-inch scale drawings of the layout of the textile care processing equipment offered. Drawings shall include adjacent equipment from original as-build drawings supplied by VA personnel to show that equipment offered will fit into the location or space available.

b. **Written Narratives Outlining the Work Flow (for information only):** Written narratives outlining the work flow must show that there are no bottlenecks with equipment offered that will affect overall production. Offeror is required to submit a description of removal and installation work schedule and phasing plan with sufficient detail to enable VA to determine the effect on production and operations that this project will have. It is critical to the VA to have as little down time as possible. The laundry operates an 8-hour day shift, Monday through Friday.

c. **Descriptive Literature (for evaluation):** Descriptive literature means information (e.g., cuts, illustrations, drawings and brochures) that is submitted as part of a technical proposal. Descriptive literature is required to establish, for the purpose of evaluation, details of the product offered that are specified in "Performance Specifications", and pertain to significant elements such as design, materials, components, performance characteristics, and methods of manufacture, assembly, construction, or operation.

For the purpose of determining technical acceptability, descriptive literature must be identified (Highlighted) to show the appropriate model and type and all component items for functions offered and clearly show that the item(s) offered are in compliance with these specifications.

Performance capabilities shall be listed for all offered equipment. Identify in the submitted technical data where these capabilities are described. The statement "COMPLIES" is not acceptable.

d. **Model Numbers, Etc. (for evaluation):** Offeror/offeror must indicate on a separate document, the name of the manufacturer, model and/or catalog number (Highlighted), quantity, and a description of each offered product and/or components.

e. **Training Materials and Videos (for information only, not to be evaluated).** The offeror shall submit a list of the training materials and training videos to be provided for this solicitation.

f. **The schedule of preventive maintenance (for information only):** The offeror shall submit a list of preventive maintenance for the system offered which shall be performed during the guarantee period. The offeror shall describe the frequency and duration of downtime required for scheduled preventative hardware maintenance.

g. **Information on the number of service technicians (for information only):** The offeror shall state the number of service technicians available in the service region/area and location of the nearest service

base. The offeror shall state whether a help desk, toll free number, a 24-hour "Hot Line", or modem support is available. The offeror shall describe the procedures, telephone numbers and contact personnel for reporting system trouble. Any additional cost for these services shall be detailed in the offeror's business proposal.

h. Listing of the consumables (for information only): The offeror shall submit a listing of consumables used by the equipment by part number and quantity.

i. Commercial Operation: On a separate document, bidder shall provide the following information for equipment offered:

(a) Appropriate "Purchase Description" and specific model number, type, and class offered.

(b) Past Performance/Prior Experience Information (to determine vendor responsibility only). For each of its five most recently completed contracts of comparable scope and dollar value, the offeror shall submit the following:

1. Contract number
2. Customer point of contact
3. Locations where equipment installed
4. Type and model of equipment installed
5. When the system was installed
6. Purchase price of the system

j. Work Schedule and Phasing Plan: Successful offeror is required to submit a description of the demolition and installation work schedule and phasing plan with sufficient detail to enable VA to determine the effect on production and operations that this project will have.

3. Commercial Operation Certification: The offeror/bidder hereby certifies that the equipment offered herein is in compliance with "Commercial Operation" provisions as stated above.

(Name Printed) (Title) (Date)

(Signature) (Title) (Date)

(Company Name)

4. Parts and Service: Successful offeror/bidder is fully responsible for the parts and services to be provided.

5. Repair Parts Availability: - Manufacturers Certification: On a separate document the manufacturer of equipment offered shall certify that, in the event of award, repair parts for equipment furnished will be available for a minimum of ten (10) years after the guarantee commencement date. Certification document shall include:

a. Appropriate "Purchase Description" and specific model number/type offered.

b. Manufacturer's signature, title and date signed.

b. Manufacturers company name, address, and telephone number.

30. The Testing and Evaluation Process

Washer Extractors:

1. Washer extractors will be tested using Sheets.
2. Sheets will be weighed to determine the bone dry starting weight.
3. Washers will be loaded to full capacity based on 5.7 pounds per cubic foot of cylinder space.
4. Washers will be filled to the maximum capacity of water and rinsed for five (5) minutes using no chemicals.
5. After the five (5) minute rinse, washers will extract for normal extraction time of eight (8) minutes.
6. At the end of the extraction time, the sheets will be weighed to determine the amount of moisture retention.
7. No more than thirty five (35) percent moisture will be accepted at the end of the extraction period.
8. A visual and functional inspection will be performed on the equipment. This will include:
 - a. Checking for leaks. (steam, water and air)
 - b. Electrical connections.
 - c. Brake adjustments.
 - d. Proper installation of the equipment.
 - e. Belt adjustments and wear.
 - f. Liquid supply lines and connections.
 - g. Venting.
 - h. Safety hazards and conditions. (guards)
 - i. Poor welds.
 - j. Rust on washer housing or inside cylinders.
 - k. Anchoring of equipment.
 - l. Pipe insulation and coverings with identification and directional flow markings.
 - m. Capability of being sling loaded.
 - n. Washer loading platforms.
 - o. Microprocessor controls.
9. Washer extractor must meet production requirements as specified in the solicitation.

Continuous Tunnel Washing System :

1. The Continuous tunnel washing system will be tested using all classifications of textiles currently in use by the laundry facility.
2. Sling bags will be filled to match chamber sizes. The amount of each classification is determined by the break down stated in the solicitation.
3. Sling bags will be set on storage rails by classification.
4. The continuous wash system will pick the slings, using a computer system, in order of classifications automatically without manual attention.
5. The continuous wash system will have all chambers loaded, including two cakes of linen on the dryer shuttle.

6. Timing of the system to meet production requirements will begin as the first dryer load starts to dry and end when the last sling load empties on to the dryer take away conveyor.

7. The system will run automatically and continuously for two (2) hours with no more than 4 system faults. This includes sling storage, automatic sling call off, automatic sling loading and sling closures,

Failure to meet the production requirements or more than four (4) system faults will be cause for rejection of the system. This includes loading, washing, press time, transfer time, drying and discharge to dryer flat belt conveyor.

8. A visual and functional inspection will be performed on the equipment as specified in the solicitation. This will include:

- a. Checking for leaks. (steam, water, hydraulics)
- b. Loose electrical connections.
- c. Press functions.
- d. Proper installation of the equipment.
- e. Belt adjustments and wear.
- f. Liquid supply lines and connections.
- g. Venting.
- h. Safety hazards and conditions. (guards)
- i. Poor welds.
- j. Rust on washer housing or inside cylinders.
- k. Anchoring of equipment.
- l. Pipe insulation and PVC coverings with identification and directional flow markings.
- m. Capability of being sling loaded.
- n. Microprocessor controls.
- o. Automation of the system.

Production Drying and Conditioning Tumblers:

1. Drying and conditioning tumblers will be tested using towels currently in use by the medical center.

2. Towels will be weighed to the full capacity of the dryer being tested based on 2.96 pounds per cubic foot, to determine the bone dry starting weight.

3. Towels will be loaded into a washer extractor and filled to the maximum capacity of water using a temperature of not more than 120 degrees Fahrenheit and rinsed for five (5) minutes using no chemicals..

4. After the five (5) minute rinse, washers will extract for normal extraction time of eight (8) minutes.

5. At the end of the extraction time, towels will be weighed to determine the amount of moisture retention.

6. Towels will be loaded to full capacity of the dryer being tested.

7. The amount of moisture will be subtracted from the starting dry weight and divided by the evaporation rate to determine the time frame needed to remove the moisture.

8. Dryers will remove the following amounts of moisture based on the size and heating of the dryer to within one half (1/2) of one (1) percent of the original dry weight:

SIZE		Evaporation
Minimum Dry weight capacity (pounds)	Type of Heat	Water evaporated Per minute Minimum (pounds)
150 – 200	Steam	5.0
150 – 200	Natural Gas / Propane	10.0
300 – 400	Steam	5.5
300 – 400	Natural Gas / Propane	15.0
500 – 600	Steam	5.5
500 – 600	Natural Gas / Propane	15.0

9. A visual and functional inspection will be performed on the equipment. This will include:
- Checking for leaks. (steam, gas and air)
 - Loose electrical connections.
 - Tilting / pass through operation.
 - Proper installation of the equipment.
 - Cylinder rollers, belt adjustments.
 - Cylinder panels and non-stick coating.
 - Gas venting.
 - Safety hazards and conditions. (guards)
 - Poor welds.
 - Exhaust and air intake.
 - Anchoring of equipment.
 - Pipe insulation with PVC coverings, identification and directional flow markings.
 - Ductwork insulation with PVC coverings, identification and directional flow markings.
 - Capability of being sling loaded.
 - Dryer discharge.
 - Easy access to fire access doors in the ductwork.
 - Microprocessor controls.
 - Ergonomics for loading / unloading of dryers.
 - Platforms for loading / unloading (if required).

10. Drying and Conditioning Tumbler must meet production requirements as specified in the solicitation.

Production Flat work Ironing System:

- Flat work ironing system will be tested as a system using four (4) categories of textiles. Four (4) separate tests will be performed. Bed sheets will be used for the large piece test, pillowcases will be used for the small piece test, surgical wraps that are currently being used at the medical center for the drape stack and two (2) lane test.
- Items being tested will be weighed to determine the bone dry starting weight.
- Items will be loaded into a washer extractor and filled to the maximum capacity of water using a temperature of not more than 120 degrees Fahrenheit and rinsed for five (5) minutes using no chemicals..

4. After the five (5) minute rinse, washers will extract for normal extraction time of eight (8) minutes.
5. At the end of the extraction time, the test items will be weighed to determine the amount of moisture retention.
6. Test items will be laid out in advance for the test. The tests will consist of five (5) one (1) minute tests to allow the contractor to make adjustments to the system. For each of the four (4) tests performed, all five (5) must meet the requirements of production that include quantity of items being fed into the system, moisture retention not to exceed two (2) percent moisture remaining from the original dry weight and quality of folds. Folds will be square with no tails in excess of one quarter (1/4) inch on any one side and no more than one half (1/2) inch on the third cross fold. No more than two (2) percent bad folds will be excepted.
7. A visual and functional inspection will be performed on the ironing system. This system includes a Combination spreader feeding machine, flat work ironer, combination folder cross folder with small piece options and a sheet stacker with conveyor. This will include:
 - a. Checking for leaks. (steam, condensate and air)
 - b. Loose electrical connections.
 - c. Proper installation of the equipment.
 - d. Chest and chest rolls, belt adjustments.
 - e. Safety hazards and conditions. (guards)
 - f. Poor welds.
 - g. Exhaust system.
 - h. Anchoring of equipment.
 - i. Pipe insulation with PVC coverings, identification and directional flow markings.
 - j. Ductwork insulation with PVC coverings, identification and directional flow markings.
 - k. Easy access to fire access doors in the ductwork.
 - l. Lubrication.
 - m. Microprocessor controls.

Garment Tunnel Finisher:

1. Garment finishing system will be tested as a system using four (4) categories of linen. Shirts, trousers, smocks and coats will be used for testing.
2. Items will be loaded into a washer extractor and filled to the maximum capacity of water using a temperature of not more than 120 degrees Fahrenheit and rinsed for five (5) minutes using no chemicals..
3. After the five (5) minute rinse, washers will extract for normal extraction time of eight (8) minutes.
4. At the end of the washer extraction time, the test items will be hung on hangers and loaded on the loading conveyor of the garment finisher.
5. The garment finisher will be set for the appropriate hook speed as indicated in the solicitation.
6. Garments will pass through the steaming and drying chambers and automatically discharge to a slick rail without falling off hangers or jamming conveyor.
7. Garments will be dry and wrinkle free at the discharge end of the finisher.
8. A visual and functional inspection will be performed on the garment finishing system. This will include:

- a. Checking for leaks. (steam, condensate, gas)
- b. Electrical connections.
- c. Proper installation of the equipment.
- d. Safety hazards and conditions. (guards)
- e. Poor welds.
- f. Exhaust system.
- g. Anchoring of equipment.
- h. Pipe insulation with coverings, identification and directional flow markings.
- i. Ductwork insulation with coverings, identification and directional flow markings.
- j. Easy access to fire access doors in the ductwork.
- k. Lubrication.
- l. Microprocessor controls.
- m. Lint screens.

Small Piece Folding Machine:

1. Small piece folding machine will be tested using five (5) categories of linen. Towels currently being used at the medical center, pajama tops, pajama bottoms, bed pads and bibs will be used for testing.
2. The small piece folder will be capable of folding items in quarter (1/4) folds, half (1/2) folds and thirds (1/3).
3. Items will be folded square and stacked neatly with no more than one half (1/2) inch on the end fold.
4. The small piece folder shall be capable of stacking items in stacks of 5's, 10's, 15's and 20's and conveying the folded items to the feeder without falling.
5. A visual and functional inspection will be performed on the small piece folder. This will include:
 - a. Checking for leaks. (air)
 - b. Loose electrical connections.
 - c. Proper installation of the equipment.
 - d. Safety hazards and conditions. (guards)
 - e. Lubrication.
 - f. Microprocessor controls.

Cart Washer:

1. The cart washing system shall automatically transport carts through the washer to the cart make up area and have a minimum capacity of washing and drying the amount of carts per hour as specified in the solicitation.
2. Carts must be thoroughly washed and dried in the required time frame.
3. A visual and functional inspection will be performed on the cart washing system. This will include:
 - a. Checking for leaks. (air intake, exhaust, water)
 - b. Electrical connections.
 - c. Proper installation of the equipment.
 - d. Safety hazards and conditions. (guards)
 - e. Poor welds.
 - f. Exhaust system.
 - g. Anchoring of equipment.
 - h. Pipe insulation with PVC coverings, identification and directional flow markings.

- i. Ductwork insulation with PVC coverings, identification and directional flow markings.
- j. Easy access to fire access doors in the ductwork.
- k. Lubrication.
- l. Microprocessor controls.
- m. Piping from the pit area.
- n. Complete separation from soil area and clean area.

Miscellaneous:

- 1. An operational and functional inspection of the entire textile care facility will be accomplished to ensure compliance with the performance requirements of the solicitation and applicable codes. This will include mechanical rooms and systems, mono-rail systems, conveyor systems, water storage and pumping systems, flow rack storage and operation, carts, textile management computer systems, energy monitor systems, communication systems, liquid supply system, textile storage areas.

SECTION C - CONTRACT CLAUSES

C.1 52.212-4 CONTRACT TERMS AND CONDITIONS--COMMERCIAL ITEMS (Feb 2012)

(a) Inspection/Acceptance. The Contractor shall only tender for acceptance those items that conform to the requirements of this contract. The Government reserves the right to inspect or test any supplies or services that have been tendered for acceptance. The Government may require repair or replacement of nonconforming supplies or reperformance of nonconforming services at no increase in contract price. If repair/replacement or reperformance will not correct the defects or is not possible, the Government may seek an equitable price reduction or adequate consideration for acceptance of nonconforming supplies or services. The Government must exercise its post-acceptance rights-

(1) Within a reasonable time after the defect was discovered or should have been discovered; and
(2) Before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item.

(b) Assignment. The Contractor or its assignee may assign its rights to receive payment due as a result of performance of this contract to a bank, trust company, or other financing institution, including any Federal lending agency in accordance with the Assignment of Claims Act (31 U.S.C. 3727). However, when a third party makes payment (e.g., use of the Government wide commercial purchase card), the Contractor may not assign its rights to receive payment under this contract.

(c) Changes. Changes in the terms and conditions of this contract may be made only by written agreement of the parties.

(d) Disputes. This contract is subject to the Contract Disputes Act of 1978, as amended (41 U.S.C. 601-613). Failure of the parties to this contract to reach agreement on any request for equitable adjustment, claim, appeal or action arising under or relating to this contract shall be a dispute to be resolved in accordance with the clause at FAR 52.233-1, Disputes, which is incorporated herein by reference. The Contractor shall proceed diligently with performance of this contract, pending final resolution of any dispute arising under the contract.

(e) Definitions. The clause at FAR 52.202-1, Definitions, is incorporated herein by reference.

(f) Excusable delays. The Contractor shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of the Contractor and without its fault or negligence such as, acts of God or the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. The Contractor shall notify the Contracting Officer in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to the Contracting Officer of the cessation of such occurrence.

(g) Invoice.

(1) The Contractor shall submit an original invoice and three copies (or electronic invoice, if authorized) to the address designated in the contract to receive invoices. An invoice must include-

(i) Name and address of the Contractor;

(ii) Invoice date and number;

(iii) Contract number, contract line item number and, if applicable, the order number;

(iv) Description, quantity, unit of measure, unit price and extended price of the items delivered;

(v) Shipping number and date of shipment, including the bill of lading number and weight of shipment if shipped on Government bill of lading;

(vi) Terms of any discount for prompt payment offered;

(vii) Name and address of official to whom payment is to be sent;

(viii) Name, title, and phone number of person to notify in event of defective invoice; and

(ix) Taxpayer Identification Number (TIN). The Contractor shall include its TIN on the invoice only if required elsewhere in this contract.

(x) Electronic funds transfer (EFT) banking information.

(A) The Contractor shall include EFT banking information on the invoice only if required elsewhere in this contract.

(B) If EFT banking information is not required to be on the invoice, in order for the invoice to be a proper invoice, the Contractor shall have submitted correct EFT banking information in accordance with the

applicable solicitation provision, contract clause (e.g., 52.232-33, Payment by Electronic Funds Transfer--Central Contractor Registration, or 52.232-34, Payment by Electronic Funds Transfer--Other Than Central Contractor Registration), or applicable agency procedures.

(C) EFT banking information is not required if the Government waived the requirement to pay by EFT.

(2) Invoices will be handled in accordance with the Prompt Payment Act (31 U.S.C. 3903) and Office of Management and Budget (OMB) prompt payment regulations at 5 CFR part 1315.

(h) Patent indemnity. The Contractor shall indemnify the Government and its officers, employees and agents against liability, including Price, for actual or alleged direct or contributory infringement of, or inducement to infringe, any United States or foreign patent, trademark or copyright, arising out of the performance of this contract, provided the Contractor is reasonably notified of such claims and proceedings.

(i) Payment.-

(1) Items accepted. Payment shall be made for items accepted by the Government that have been delivered to the delivery destinations set forth in this contract.

(2) Prompt payment. The Government will make payment in accordance with the Prompt Payment Act (31 U.S.C. 3903) and prompt payment regulations at 5 CFR part 1315.

(3) Electronic Funds Transfer (EFT). If the Government makes payment by EFT, see 52.212-5(b) for the appropriate EFT clause.

(4) Discount. In connection with any discount offered for early payment, time shall be computed from the date of the invoice. For the purpose of computing the discount earned, payment shall be considered to have been made on the date which appears on the payment check or the specified payment date if an electronic funds transfer payment is made.

(5) Overpayments. If the Contractor becomes aware of a duplicate contract financing or invoice payment or that the Government has otherwise overpaid on a contract financing or invoice payment, the Contractor shall--

(i) Remit the overpayment amount to the payment office cited in the contract along with a description of the overpayment including the--

(A) Circumstances of the overpayment (e.g., duplicate payment, erroneous payment, liquidation errors, date(s) of overpayment);

(B) Affected contract number and delivery order number, if applicable;

(C) Affected contract line item or subline item, if applicable; and

(D) Contractor point of contact.

(ii) Provide a copy of the remittance and supporting documentation to the Contracting Officer.

(6) Interest.

(i) All amounts that become payable by the Contractor to the Government under this contract shall bear simple interest from the date due until paid unless paid within 30 days of becoming due. The interest rate shall be the interest rate established by the Secretary of the Treasury as provided in Section 611 of the Contract Disputes Act of 1978 (Public Law 95-563), which is applicable to the period in which the amount becomes due, as provided in (i)(6)(v) of this clause, and then at the rate applicable for each six-month period as fixed by the Secretary until the amount is paid.

(ii) The Government may issue a demand for payment to the Contractor upon finding a debt is due under the contract.

(iii) Final decisions. The Contracting Officer will issue a final decision as required by 33.211 if--

(A) The Contracting Officer and the Contractor are unable to reach agreement on the existence or amount of a debt within 30 days;

(B) The Contractor fails to liquidate a debt previously demanded by the Contracting Officer within the timeline specified in the demand for payment unless the amounts were not repaid because the Contractor has requested an installment payment agreement; or

(C) The Contractor requests a deferment of collection on a debt previously demanded by the Contracting Officer (see 32.607-2).

(iv) If a demand for payment was previously issued for the debt, the demand for payment included in the final decision shall identify the same due date as the original demand for payment.

(v) Amounts shall be due at the earliest of the following dates:

(A) The date fixed under this contract.

(B) The date of the first written demand for payment, including any demand for payment resulting from a default termination.

(vi) The interest charge shall be computed for the actual number of calendar days involved beginning on the due date and ending on--

(A) The date on which the designated office receives payment from the Contractor;

(B) The date of issuance of a Government check to the Contractor from which an amount otherwise payable has been withheld as a credit against the contract debt; or

(C) The date on which an amount withheld and applied to the contract debt would otherwise have become payable to the Contractor.

(vii) The interest charge made under this clause may be reduced under the procedures prescribed in 32.608-2 of the Federal Acquisition Regulation in effect on the date of this contract.

(j) Risk of loss. Unless the contract specifically provides otherwise, risk of loss or damage to the supplies provided under this contract shall remain with the Contractor until, and shall pass to the Government upon:

(1) Delivery of the supplies to a carrier, if transportation is f.o.b. origin; or

(2) Delivery of the supplies to the Government at the destination specified in the contract, if transportation is f.o.b. destination.

(k) Taxes. The contract price includes all applicable Federal, State, and local taxes and duties.

(l) Termination for the Government's convenience. The Government reserves the right to terminate this contract, or any part hereof, for its sole convenience. In the event of such termination, the Contractor shall immediately stop all work hereunder and shall immediately cause any and all of its suppliers and subcontractors to cease work. Subject to the terms of this contract, the Contractor shall be paid a percentage of the contract price reflecting the percentage of the work performed prior to the notice of termination, plus reasonable charges the Contractor can demonstrate to the satisfaction of the Government using its standard record keeping system, have resulted from the termination. The Contractor shall not be required to comply with the cost accounting standards or contract cost principles for this purpose. This paragraph does not give the Government any right to audit the Contractor's records. The Contractor shall not be paid for any work performed or Price incurred which reasonably could have been avoided.

(m) Termination for cause. The Government may terminate this contract, or any part hereof, for cause in the event of any default by the Contractor, or if the Contractor fails to comply with any contract terms and conditions, or fails to provide the Government, upon request, with adequate assurances of future performance. In the event of termination for cause, the Government shall not be liable to the Contractor for any amount for supplies or services not accepted, and the Contractor shall be liable to the Government for any and all rights and remedies provided by law. If it is determined that the Government improperly terminated this contract for default, such termination shall be deemed a termination for convenience.

(n) Title. Unless specified elsewhere in this contract, title to items furnished under this contract shall pass to the Government upon acceptance, regardless of when or where the Government takes physical possession.

(o) Warranty. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.

(p) Limitation of liability. (Tailored) Except as otherwise provided by an express warranty, the Contractor will not be liable to the Government in breach of warranty action for consequential damages resulting from any defect or deficiencies in accepted items.

(q) Other compliances. The Contractor shall comply with all applicable Federal, State and local laws, executive orders, rules and regulations applicable to its performance under this contract.

(r) Compliance with laws unique to Government contracts. The Contractor agrees to comply with 31 U.S.C. 1352 relating to limitations on the use of appropriated funds to influence certain Federal contracts; 18 U.S.C. 431 relating to officials not to benefit; 40 U.S.C. 3701, et seq., Contract Work Hours and Safety Standards Act; 41 U.S.C. 51-58, Anti-Kickback Act of 1986; 41 U.S.C. 265 and 10 U.S.C. 2409 relating to whistleblower protections; Section 1553 of the American Recovery and Reinvestment Act of 2009 relating to whistleblower protections for contracts funded under that Act; 49 U.S.C. 40118, Fly American; and 41 U.S.C. 423 relating to procurement integrity.

(s) Order of precedence. Any inconsistencies in this solicitation or contract shall be resolved by giving precedence in the following order:

(1) The schedule of supplies/services.

(2) The Assignments, Disputes, Payments, Invoice, Other Compliances, and Compliance with Laws Unique to Government Contracts paragraphs of this clause.

(3) The clause at 52.212-5.

(4) Addenda to this solicitation or contract, including any license agreements for computer software.

(5) Solicitation provisions if this is a solicitation.

(6) Other paragraphs of this clause.

(7) The Standard Form 1449.

(8) Other documents, exhibits, and attachments

(9) The specification.

(t) Central Contractor Registration (CCR).

(1) Unless exempted by an addendum to this contract, the Contractor is responsible during performance and through final payment of any contract for the accuracy and completeness of the data within the CCR database, and for any liability resulting from the Government's reliance on inaccurate or incomplete data. To remain registered in the CCR database after the initial registration, the Contractor is required to review and update on an annual basis from the date of initial registration or subsequent updates its information in the CCR database to ensure it is current, accurate and complete. Updating information in the CCR does not alter the terms and conditions of this contract and is not a substitute for a properly executed contractual document.

(2)(i) If a Contractor has legally changed its business name, "doing business as" name, or division name (whichever is shown on the contract), or has transferred the assets used in performing the contract, but has not completed the necessary requirements regarding novation and change-of-name agreements in FAR subpart 42.12, the Contractor shall provide the responsible Contracting Officer a minimum of one business day's written notification of its intention to (A) change the name in the CCR database; (B) comply with the requirements of subpart 42.12; and (C) agree in writing to the timeline and procedures specified by the responsible Contracting Officer. The Contractor must provide with the notification sufficient documentation to support the legally changed name.

(ii) If the Contractor fails to comply with the requirements of paragraph (t)(2)(i) of this clause, or fails to perform the agreement at paragraph (t)(2)(i)(C) of this clause, and, in the absence of a properly executed novation or change-of-name agreement, the CCR information that shows the Contractor to be other than the Contractor indicated in the contract will be considered to be incorrect information within the meaning of the "Suspension of Payment" paragraph of the electronic funds transfer (EFT) clause of this contract.

(3) The Contractor shall not change the name or address for EFT payments or manual payments, as appropriate, in the CCR record to reflect an assignee for the purpose of assignment of claims (see Subpart 32.8, Assignment of Claims). Assignees shall be separately registered in the CCR database. Information provided to the Contractor's CCR record that indicates payments, including those made by EFT, to an ultimate recipient other than that Contractor will be considered to be incorrect information within the meaning of the "Suspension of payment" paragraph of the EFT clause of this contract.

(4) Offerors and Contractors may obtain information on registration and annual confirmation requirements via the internet at <http://www.ccr.gov> or by calling 1-888-227-2423 or 269-961-5757.

C.2 VAAR 852.211-70 SERVICE DATA MANUALS (NOV 1984)

(a) The contractor shall supply two operation/service (maintenance) manuals 2 hard copies and 2 CD's with each piece of equipment in the quantity specified in the solicitation and resulting purchase order. As a minimum, the manual(s) shall be bound and equivalent to the manual(s) provided the manufacturer's designated field service representative as well as comply with all the requirements in paragraphs (b) through (i) of this clause. Sections, headings and section sequence identified in (b) through (i) of this clause are typical and may vary between manufacturers. Variances in the sections, headings and section sequence, however, do not relieve the manufacturer of his/her responsibility in supplying the technical data called for therein.

(b) Title Page and Front Matter. The title page shall include the equipment nomenclature, model number, effective date of the manual and the manufacturer's name and address. If the manual applies to a particular version of the equipment only, the title page shall also list that equipment's serial number. Front matter shall consist of the Table of Contents, List of Tables, List of Illustrations and a frontispiece (photograph or line drawing) depicting the equipment.

(c) Section I, General Description. This section shall provide a generalized description of the equipment or devices and shall describe its purpose or intended use. Included in this section will be a table listing all pertinent equipment specifications, power requirements, environmental limitations and physical dimensions.

(d) Section II, Installation. Section II shall provide pertinent installation information. It shall list all input and output connectors using applicable reference designators and functional names as they appear on the

equipment. Included in this listing will be a brief description of the function of each connector along with the connector type. Instructions shall be provided as to the recommended method of repacking the equipment for shipment (packing material, labeling, etc.).

(e) Section III, Operation. Section III will fully describe the operation of the equipment and shall include a listing of each control with a brief description of its function and step-by-step procedures for each operating mode. Procedures will use the control(s) nomenclature as it appears on the equipment and will be keyed to one or more illustrations of the equipment. Operating procedures will include any preoperational checks, calibration adjustments and operation tests. Notes, cautions and warnings shall be set off from the text body so they may easily be recognizable and will draw the attention of the reader. Illustrations should be used wherever possible depicting equipment connections for test, calibration, patient monitoring and measurements. For large, complex and/or highly versatile equipment capable of many operating modes and in other instances where the Operation Section is quite large, operational information may be bound separately in the form of an Operators Manual. The providing of a separate Operators manual does not relieve the supplier of his responsibility for providing the minimum acceptable maintenance data specified herein. When applicable, flow charts and narrative descriptions of software shall be provided. If programming is either built-in and/or user modifiable, a complete software listing shall be supplied. Equipment items with software packages shall also include diagnostic routines and sample outputs. Submission information shall be given in the Maintenance Section to identify equipment malfunctions that are software related.

Where applicable, flow charts and narrative descriptions of software shall be provided. If programming is either built-in and/or user modifiable, a complete software listing shall be supplied. Equipment items with software packages shall also include diagnostic routines and sample outputs. Submission information shall be given in the Maintenance Section to identify equipment malfunctions which are software related.

(f) Section IV, Principles of Operation. This section shall describe in narrative form the principles of operation of the equipment. Circuitry shall be discussed in sufficient detail to be understood by technicians and engineers who possess a working knowledge of electronics and a general familiarity with the overall application of the devices. The circuit descriptions should start at the overall equipment level and proceed to more detailed circuit descriptions. The overall description shall be keyed to a functional block diagram of the equipment. Circuit descriptions shall be keyed to schematic diagrams discussed in paragraph (i) below. It is recommended that for complex or special circuits, simplified schematics should be included in this section.

(g) Section V, Maintenance. The maintenance section shall contain a list of recommended test equipment, special tools, preventive maintenance instructions and corrective information. The list of test equipment shall be that recommended by the manufacturer and shall be designated by manufacturer and model number. Special tools are those items not commercially available or those that are designed specifically for the equipment being supplied. Sufficient data will be provided to enable their purchase by the Department of Veterans Affairs. Preventive maintenance instructions shall consist of those recommended by the manufacturer to preclude unnecessary failures. Procedures and the recommended frequency of performance shall be included for visual inspection, cleaning, lubricating, mechanical adjustments and circuit calibration. Corrective maintenance shall consist of the data necessary to troubleshoot and rectify a problem and shall include procedures for realigning and testing the equipment. Troubleshooting shall include either a list of test points with the applicable voltage levels or waveforms that would be present under a certain prescribed set of conditions, a troubleshooting chart listing the symptom, probable cause and remedy, or a narrative containing sufficient data to enable a test technician or electronics engineer to determine and locate the probable cause of malfunction. Data shall also be provided describing the preferred method of repairing or replacing discrete components mounted on printed circuit boards or located in areas where special steps must be followed to disassemble the equipment. Procedures shall be included to realign and test the equipment at the completion of repairs and to restore it to its original operating condition. These procedures shall be supported by the necessary waveforms and voltage levels, and data for selecting matched components. Diagrams, either photographic or line, shall show the location of printed circuit board mounted components.

(h) Section VI, Replacement Parts List. The replacement parts list shall list, in alphanumeric order, all electrical/electronic, mechanical and pneumatic components, their description, value and tolerance, true manufacturer and manufacturers' part number.

(i) Section VII, Drawings. Wiring and schematic diagrams shall be included. The drawings will depict the circuitry using standard symbols and shall include the reference designations and component values or type designators. Drawings shall be clear and legible and shall not be engineering or production sketches.

C.3 VAAR 852.246-70 GUARANTEE (JAN 2008)

The contractor guarantees the equipment against defective material, workmanship and performance for a period of one (1) year, said guarantee to run from date of acceptance of the equipment by the Government. The contractor agrees to furnish, without cost to the Government, replacement of all parts and material that are found to be defective during the guarantee period. Replacement of material and parts will be furnished to the Government at the point of installation, if installation is within the continental United States, or f.o.b. the continental U.S. port to be designated by the contracting officer if installation is outside of the continental United States. Cost of installation of replacement material and parts shall be borne by the contractor

C.4 VAAR 852.246-71 INSPECTION (JAN 2008)

Rejected goods will be held subject to contractor's order for not more than 15 days, after which the rejected merchandise will be returned to the contractor's address at his/her risk and expense. Expenses incident to the examination and testing of materials or supplies that have been rejected will be charged to the contractor's account.

C.5 VAAR 852.270-1 REPRESENTATIVES OF CONTRACTING OFFICERS (JAN 2008)

The contracting officer reserves the right to designate representatives to act for him/her in furnishing technical guidance and advice or generally monitor the work to be performed under this contract. Such designation will be in writing and will define the scope and limitation of the designee's authority. A copy of the designation shall be furnished to the contractor.

C.6 AS214 PRODUCT MODIFICATION, REMOVAL OR RECALL (JAN 2008)

If any product awarded under this solicitation requires modification, is removed or recalled by the contractor or manufacturer due to defects in the product or potential dangers to patients, or if any required modification, removal or recall is suggested or mandated by a regulatory or official agency, the following steps will immediately be taken by the contractor or manufacturer:

a. Notify Freddie Beaulieux, NCS, High Tech Medical Equipment (003A4C2), VA National Acquisition Center, P.O. Box 76, Building 37, Hines, IL 60141, (freddie.beaulieux@va.gov) in writing, by the most expeditious manner possible. Provide two copies of the notification, which shall include, but not be limited to the following:

- (1) Complete item description and/or identification, order numbers from customers, and the contract number assigned as a result of an award on this solicitation.
- (2) Reasons for modifications, removal or recall.
- (3) Necessary instructions for return for credit, replacement or corrective action.

b. A copy of the notification in a. above shall be provided to:

c. Provide the information in a. above to all agencies and VA Facilities who purchased the product.

d. Freddie Beaulieux, Contracting Officer, VA NAC (003A4C2), shall be provided a copy of the notification in c. above, and a list of all agencies and/or VA facilities notified.

C.7 AS1360 AVAILABILITY OF PARTS AND SERVICE (MAY 1995)

The contractor guarantees availability of servicing and replacement parts for a period of ten (10) years after date of acceptance.

C.8 ASI372 SERVICE BULLETINS (MAY 1995)

Two (2) copies of each service bulletin affecting safety or maintenance of equipment furnished under this contract will be forwarded to the receiving activity for a period of ten (10) years after date of delivery. In addition one copy, will be furnished to each of the following:

Central Texas Veterans Healthcare System
Textile Care Facility
4800 Memorial Drive
Waco, TX 76711
Attn: Michael Richardson

C.9 AS3000 APPLICATION SOFTWARE AND OPERATING SYSTEM REQUIREMENTS (JUL 2008) (Tailored)

Application software and any Off the Shelf commercial Operating System (OS) necessary for operation and maintenance of the system being purchased, are to be provided by the contractor. The OS must be the latest major release currently available for purchase in the commercial marketplace or no older than one release prior to the latest major release. Application software updates compatible with the offered system's hardware shall be kept current at no cost to the Government as long as the equipment is in use in VA or any other Government agency health facility.

- For the purpose of this clause, updates are defined as all modifications to correct or improve system operation and current functions including known remedies for security vulnerabilities. Upgrades are defined as providing additional functions and will be made available for purchase.
 - Updates that are bundled with upgrades shall be provided at no cost. The contractor may restrict added upgrade functions if restriction does not limit existing functions.
- Modifications of software by the Government will not be made without prior consent of contractor.
- Government may move the application software and OS if the original hardware fails.
 - Software and commercial OS provided must not be self-canceling, which is interpreted to mean the function of the software will not be stopped due to elapsing time or other condition not identified with the original equipment purchase. The prime contractor is responsible to ensure any third-party provided software is included in this restriction. No "renewable" licenses or agreements will be entered into by either the Contracting Officer or the using facility.
 - The data rights clause found at FAR 52.227-19, Commercial Computer Software License (Dec 2007), is incorporated by reference into this solicitation and all resulting contracts and orders for equipment containing commercial computer software. However, the Government shall not have the right to unilaterally modify the commercial computer software if it is embedded in the equipment. More specifically, the Government waives the right to modify such software that is granted in FAR 52.227-19(b) (2) (iv).
 - Additionally, the Government shall have networking rights for all commercial computer software that it acquires through contracts and orders for equipment awarded under this solicitation. The Government shall be the licensee and all such software acquired shall be for a perpetual duration.

C.10 52.211-10 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984)

The Contractor shall be required to (a) commence work under this contract within 10 calendar days after the date the Contractor receives the notice to proceed, (b) prosecute the work diligently, and (c) complete the entire work ready for use not later than 120 days. The time stated for completion shall include final cleanup of the premises.

C.11 52.227-14 RIGHTS IN DATA--GENERAL (DEC 2007)

(a) Definitions. As used in this clause--

"Computer database" or "database" means a collection of recorded information in a form capable of, and for the purpose of, being stored in, processed, and operated on by a computer. The term does not include computer software.

"Computer software"--

(1) Means

(i) Computer programs that comprise a series of instructions, rules, routines, or statements, regardless of the media in which recorded, that allow or cause a computer to perform a specific operation or series of operations; and

(ii) Recorded information comprising source code listings, design details, algorithms, processes, flow charts, formulas, and related material that would enable the computer program to be produced, created, or compiled.

(2) Does not include computer databases or computer software documentation.

"Computer software documentation" means owner's manuals, user's manuals, installation instructions, operating instructions, and other similar items, regardless of storage medium, that explain the capabilities of the computer software or provide instructions for using the software.

"Data" means recorded information, regardless of form or the media on which it may be recorded. The term includes technical data and computer software. The term does not include information incidental to contract administration, such as financial, administrative, cost or pricing, or management information.

"Form, fit, and function data" means data relating to items, components, or processes that are sufficient to enable physical and functional interchangeability, and data identifying source, size, configuration, mating and attachment characteristics, functional characteristics, and performance requirements. For computer software it means data identifying source, functional characteristics, and performance requirements but specifically excludes the source code, algorithms, processes, formulas, and flow charts of the software.

"Limited rights" means the rights of the Government in limited rights data as set forth in the Limited Rights Notice of paragraph (g) (3) if included in this clause.

"Limited rights data" means data, other than computer software, that embody trade secrets or are commercial or financial and confidential or privileged, to the extent that such data pertain to items, components, or processes developed at private expense, including minor modifications.

"Restricted computer software" means computer software developed at private expense and that is a trade secret, is commercial or financial and confidential or privileged, or is copyrighted computer software, including minor modifications of the computer software.

"Restricted rights", as used in this clause, means the rights of the Government in restricted computer software, as set forth in a Restricted Rights Notice of paragraph (g) if included in this clause, or as otherwise may be provided in a collateral agreement incorporated in and made part of this contract, including minor modifications of such computer software.

"Technical data", means recorded information (regardless of the form or method of the recording) of a scientific or technical nature (including computer databases and computer software documentation). This term does not include computer software or financial, administrative, cost or pricing, or management data or other information incidental to contract administration. The term includes recorded information of a scientific or technical nature that is included in computer databases (See 41 U.S.C. 403(8)).

"Unlimited rights" means the rights of the Government to use, disclose, reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, in any manner and for any purpose, and to have or permit others to do so.

(b) Allocation of rights.

(1) Except as provided in paragraph (c) of this clause, the Government shall have unlimited rights in--

(i) Data first produced in the performance of this contract;

(ii) Form, fit, and function data delivered under this contract;

(iii) Data delivered under this contract (except for restricted computer software) that constitute manuals or instructional and training material for installation, operation, or routine maintenance and repair of items, components, or processes delivered or furnished for use under this contract; and

(iv) All other data delivered under this contract unless provided otherwise for limited rights data or restricted computer software in accordance with paragraph (g) of this clause.

(2) The Contractor shall have the right to--

(i) Assert copyright in data first produced in the performance of this contract to the extent provided in paragraph (c) (1) of this clause;

(ii) Use, release to others, reproduce, distribute, or publish any data first produced or specifically used by the Contractor in the performance of this contract, unless provided otherwise in paragraph (d) of this clause;

- (iii) Substantiate the use of, add, or correct limited rights, restricted rights, or copyright notices and to take other appropriate action, in accordance with paragraphs (e) and (f) of this clause; and
- (iv) Protect from unauthorized disclosure and use those data that are limited rights data or restricted computer software to the extent provided in paragraph (g) of this clause.

(c) Copyright--

(1) Data first produced in the performance of this contract.

(i) Unless provided otherwise in paragraph (d) of this clause, the Contractor may, without prior approval of the Contracting Officer, assert copyright in scientific and technical articles based on or containing data first produced in the performance of this contract and published in academic, technical or professional journals, symposia proceedings, or similar works. The prior, express written permission of the Contracting Officer is required to assert copyright in all other data first produced in the performance of this contract.

(ii) When authorized to assert copyright to the data, the Contractor shall affix the applicable copyright notices of 17 U.S.C. 401 or 402, and an acknowledgment of Government sponsorship (including contract number).

(iii) For data other than computer software, the Contractor grants to the Government, and others acting on its behalf, a paid- up, nonexclusive, irrevocable, worldwide license in such copyrighted data to reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly by or on behalf of the Government. For computer software, the Contractor grants to the Government, and others acting on its behalf, a paid- up, nonexclusive, irrevocable, worldwide license in such copyrighted computer software to reproduce, prepare derivative works, and perform publicly and display publicly (but not to distribute copies to the public) by or on behalf of the Government.

(2) Data not first produced in the performance of this contract. The Contractor shall not, without the prior written permission of the Contracting Officer, incorporate in data delivered under this contract any data not first produced in the performance of this contract unless the Contractor--

(i) Identifies the data; and

(ii) Grants to the Government, or acquires on its behalf, a license of the same scope as set forth in paragraph (c) (1) of this clause or, if such data are restricted computer software, the Government shall acquire a copyright license as set forth in paragraph (g) (4) of this clause (if included in this contract) or as otherwise provided in a collateral agreement incorporated in or made part of this contract.

(3) Removal of copyright notices. The Government will not remove any authorized copyright notices placed on data pursuant to this paragraph (c), and will include such notices on all reproductions of the data.

(d) Release, publication, and use of data. The Contractor shall have the right to use, release to others, reproduce, distribute, or publish any data first produced or specifically used by the Contractor in the performance of this contract, except--

(1) As prohibited by Federal law or regulation (e.g., export control or national security laws or regulations);

(2) As expressly set forth in this contract; or

(3) If the Contractor receives or is given access to data necessary for the performance of this contract that contain restrictive markings, the Contractor shall treat the data in accordance with such markings unless specifically authorized otherwise in writing by the Contracting Officer.

(e) Unauthorized marking of data.

(1) Notwithstanding any other provisions of this contract concerning inspection or acceptance, if any data delivered under this contract are marked with the notices specified in paragraph (g)(3) or (g) (4) if included in this clause, and use of the notices is not authorized by this clause, or if the data bears any other restrictive or limiting markings not authorized by this contract, the Contracting Officer may at any time either return the data to the Contractor, or cancel or ignore the markings. However, pursuant to 41 U.S.C. 253d, the following procedures shall apply prior to canceling or ignoring the markings.

(i) The Contracting Officer will make written inquiry to the Contractor affording the Contractor 60 days from receipt of the inquiry to provide written justification to substantiate the propriety of the markings;

(ii) If the Contractor fails to respond or fails to provide written justification to substantiate the propriety of the markings within the 60-day period (or a longer time approved in writing by the Contracting Officer for good cause shown), the Government shall have the right to cancel or ignore the markings at any time after said period and the data will no longer be made subject to any disclosure prohibitions.

(iii) If the Contractor provides written justification to substantiate the propriety of the markings within the period set in paragraph (e)(1)(i) of this clause, the Contracting Officer will consider such written justification and determine whether or not the markings are to be cancelled or ignored. If the Contracting

Officer determines that the markings are authorized, the Contractor will be so notified in writing. If the Contracting Officer determines, with concurrence of the head of the contracting activity, that the markings are not authorized, the Contracting Officer will furnish the Contractor a written determination, which determination will become the final agency decision regarding the appropriateness of the markings unless the Contractor files suit in a court of competent jurisdiction within 90 days of receipt of the Contracting Officer's decision. The Government will continue to afford by the markings under this paragraph (e) (1) (iii) until final resolution of the matter either by the Contracting Officer's determination becoming final (in which instance the Government will thereafter have the right to cancel or ignore the markings at any time and the data will no longer be made subject to any disclosure prohibitions), or by final disposition of the matter by court decision if suit is filed.

(2) The time limits in the procedures set forth in paragraph (e)(1) of this clause may be modified in accordance with agency regulations implementing the Freedom of Information Act (5 U.S.C. 552) if necessary to respond to a request there under.

(3) Except to the extent the Government's action occurs as the result of final disposition of the matter by a court of competent jurisdiction, the Contractor is not precluded by paragraph (e) of the clause from bringing a claim, in accordance with the Disputes clause of this contract, that may arise as the result of the Government removing or ignoring authorized markings on data delivered under this contract.

(f) Omitted or incorrect markings.

(1) Data delivered to the Government without any restrictive markings shall be deemed to have been furnished with unlimited rights. The Government is not liable for the disclosure, use, or reproduction of such data.

(2) If the unmarked data has not been disclosed without restriction outside the Government, the Contractor may request, within 6 months (or a longer time approved by the Contracting Officer in writing for good cause shown) after delivery of the data, permission to have authorized notices placed on the data at the Contractor's expense. The Contracting Officer may agree to do so if the Contractor--

(i) Identifies the data to which the omitted notice is to be applied;

(ii) Demonstrates that the omission of the notice was inadvertent;

(iii) Establishes that the proposed notice is authorized; and

(iv) Acknowledges that the Government has no liability for the disclosure, use, or reproduction of any data made prior to the addition of the notice or resulting from the omission of the notice.

(3) If data has been marked with an incorrect notice, the Contracting Officer may--

(i) Permit correction of the notice at the Contractor's expense if the Contractor identifies the data and demonstrates that the correct notice is authorized; or

(ii) Correct any incorrect notices.

(g) Protection of limited rights data and restricted computer software.

(1) The Contractor may withhold from delivery qualifying limited rights data or restricted computer software that are not data identified in paragraphs (b)(1)(i), (ii), and (iii) of this clause. As a condition to this withholding, the Contractor shall--

(i) Identify the data being withheld; and

(ii) Furnish form, fit, and function data instead.

(2) Limited rights data that are formatted as a computer database for delivery to the Government shall be treated as limited rights data and not restricted computer software.

(3) [Reserved]

(h) Subcontracting. The Contractor shall obtain from its subcontractors all data and rights therein necessary to fulfill the Contractor's obligations to the Government under this contract. If a subcontractor refuses to accept terms affording the Government those rights, the Contractor shall promptly notify the Contracting Officer of the refusal and shall not proceed with the subcontract award without authorization in writing from the Contracting Officer.

(i) Relationship to patents or other rights. Nothing contained in this clause shall imply a license to the Government under any patent or be construed as affecting the scope of any license or other right otherwise granted to the Government.

C.12 52.227-19 COMMERCIAL COMPUTER SOFTWARE LICENSE (DEC 2007)

(a) Notwithstanding any contrary provisions contained in the Contractor's standard commercial license or lease agreement, the Contractor agrees that the Government will have the rights that are set forth in paragraph (b) of this clause to use, duplicate or disclose any commercial computer software delivered under this contract. The terms and provisions of this contract shall comply with Federal laws and the Federal Acquisition Regulation.

(b)(1) The commercial computer software delivered under this contract may not be used, reproduced, or disclosed by the Government except as provided in paragraph (b)(2) of this clause or as expressly stated otherwise in this contract.

(2) The commercial computer software may be--

(i) Used or copied for use with the computer(s) for which it was acquired, including use at any Government installation to which the computer(s) may be transferred;

(ii) Used or copied for use with a backup computer if any computer for which it was acquired is inoperative;

(iii) Reproduced for safekeeping (archives) or backup purposes;

(iv) Modified, adapted, or combined with other computer software, provided that the modified, adapted, or combined portions of the derivative software incorporating any of the delivered, commercial computer software shall be subject to same restrictions set forth in this contract;

(v) Disclosed to and reproduced for use by support service Contractors or their subcontractors, subject to the same restrictions set forth in this contract; and

(vi) Used or copied for use with a replacement computer.

(3) If the commercial computer software is otherwise available without disclosure restrictions, the Contractor licenses it to the Government without disclosure restrictions.

(c) The Contractor shall affix a notice substantially as follows to any commercial computer software delivered under this contract:

Notice--Notwithstanding any other lease or license agreement that may pertain to, or accompany the delivery of, this computer software, the rights of the Government regarding its use, reproduction and disclosure are as set forth in Government Contract No. _____.

C.13 52.242-15 STOP-WORK ORDER (AUG 1989)

(a) The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of Price allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work order is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either -

(1) Cancel the stop-work order; or

(2) Terminate the work covered by the order as provided in the Default, or the Termination for Convenience of the Government, clause of this contract.

(b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule or contract price, or both, and the contract shall be modified, in writing, accordingly, if-

(1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and

(2) The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided, that, if the Contracting Officer decides the facts justify the Officer may receive and act upon a proposal submitted at any time before final payment under this contract.

(c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable Price resulting from the stop-work order in arriving at the termination settlement.

(d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable Price resulting from the stop-work order.

C.14 52.247-35 F.O.B. DESTINATION, WITHIN CONSIGNEE'S PREMISES (APR 1984)

(a) The term "f.o.b. destination, within consignee's premises," as used in this clause, means free of expense to the Government delivered and laid down within the doors of the consignee's premises, including delivery to specific rooms within a building if so specified.

(b) The Contractor shall--

- (1)(i) Pack and mark the shipment to comply with contract specifications; or
- (ii) In the absence of specifications, prepare the shipment in conformance with carrier requirements;
- (2) Prepare and distribute commercial bills of lading;
- (3) Deliver the shipment in good order and condition to the point of delivery specified in the contract;
- (4) Be responsible for any loss of and/or damage to the goods occurring before receipt of the shipment by the consignee at the delivery point specified in the contract;
- (5) Furnish a delivery schedule and designate the mode of delivering carrier; and
- (6) Pay and bear all charges to the specified point of delivery.

NOTICE REGARDING F.O.B. DESTINATION WITHIN ROOM

In accordance with FAR 52.247-35 F.O.B. Destination, Within Consignees Premises, paragraph (a), the Contractor is hereby notified that delivery to specific rooms within a building as designated by the Government is required.

C.15 VAAR 852.273-76 ELECTRONIC INVOICE SUBMISSION (Interim - October 2008)

(a) To improve the timeliness of payments and lower overall administrative Price, VA strongly encourages contractors to submit invoices using its electronic invoicing system. At present, electronic submission is voluntary and any nominal registration fees will be the responsibility of the contractor. VA intends to mandate electronic invoice submission, subject to completion of the federal rulemaking process. At present, VA is using a 3rd party agent to contact contractors regarding this service. During the voluntary period, contractors interested in registering for the electronic system should contact the VA's Financial Services Center at <http://www.fsc.va.gov/einvoice.asp>.

C.16 52.212-5 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS--COMMERCIAL ITEMS (AUG 2012)

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses, which are incorporated in this contract by reference, to implement provisions of law or Executive orders applicable to acquisitions of commercial items:

(1) 52.222-50, Combating Trafficking in Persons (FEB 2009) (22 U.S.C. 7104(g)).

____ Alternate I (AUG 2007) of 52.222-50 (22 U.S.C. 7104(g)).

(2) 52.233-3, Protest After Award (AUG 1996) (31 U.S.C. 3553).

(3) 52.233-4, Applicable Law for Breach of Contract Claim (OCT 2004) (Pub. L. 108-77, 108-78).

(b) The Contractor shall comply with the FAR clauses in this paragraph (b) that the contracting officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items:

[Contracting Officer check as appropriate.]

[X] (1) 52.203-6, Restrictions on Subcontractor Sales to the Government (Sept 2006), with Alternate I (Oct 1995) (41 U.S.C. 253g and 10 U.S.C. 2402).

X (2) 52.203-13, Contractor Code of Business Ethics and Conduct (Dec 2008) (Pub. L. 110-252, Title VI, Chapter 1 (41 U.S.C. 251 note)).

____ (3) 52.203-15, Whistleblower Protections under the American Recovery and Reinvestment Act of 2009 (Mar 2009) (Section 1553 of Pub L. 111-5) (Applies to contracts funded by the American Recovery and Reinvestment Act of 2009).

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- ___ (4) 52.204-11, American Recovery and Reinvestment Act—Reporting Requirements (Mar 2009) (Pub. L. 111-5).
- ___ (5) 52.219-3, Notice of Total HUBZone Set-Aside (Jan 1999) (15 U.S.C. 657a).
- [X] (6) 52.219-4, Notice of Price Evaluation Preference for HUBZone Small Business Concerns (Jul 2005) (if the offeror elects to waive the preference, it shall so indicate in its offer) (15 U.S.C. 657a).
- ___ (7) [Reserved]
- ___ (8) (i) 52.219-6, Notice of Total Small Business Set-Aside (June 2003) (15 U.S.C. 644).
- ___ (ii) Alternate I (Oct 1995) of 52.219-6.
- ___ (iii) Alternate II (Mar 2004) of 52.219-6.
- ___ (9) (i) 52.219-7, Notice of Partial Small Business Set-Aside (June 2003) (15 U.S.C. 644).
- ___ (ii) Alternate I (Oct 1995) of 52.219-7.
- ___ (iii) Alternate II (Mar 2004) of 52.219-7.
- [X] (10) 52.219-8, Utilization of Small Business Concerns (May 2004) (15 U.S.C. 637(d) (2) and (3)).
- ___ X (11) (i) 52.219-9, Small Business Subcontracting Plan (Apr 2008) (15 U.S.C. 637 (d) (4).)
- ___ (ii) Alternate I (Oct 2001) of 52.219-9.
- ___ X (iii) Alternate II (Oct 2001) of 52.219-9.
- ___ (12) 52.219-14, Limitations on Subcontracting (Dec 1996) (15 U.S.C. 637(a) (14)).
- ___ X (13) 52.219-16, Liquidated Damages—Subcontracting Plan (Jan 1999) (15 U.S.C. 687(d) (4) (F) (i)).
- ___ (14) (i) 52.219-23, Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns (Oct 2008) (10 U.S.C. 2323) (if the offeror elects to waive the adjustment, it shall so indicate in its offer).
- ___ (ii) Alternate I (June 2003) of 52.219-23.
- ___ (15) 52.219-25, Small Disadvantaged Business Participation Program—Disadvantaged Status and Reporting (Apr 2008) (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323).
- ___ (16) 52.219-26, Small Disadvantaged Business Participation Program—Incentive Subcontracting (Oct 2000) (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323).
- ___ (17) 52.219-27, Notice of Total Service-Disabled Veteran-Owned Small Business Set-Aside (May 2004) (15 U.S.C. 657 f).
- [X] (18) 52.219-28, Post Award Small Business Program Rerepresentation (Apr 2009) (15 U.S.C. 632(a) (2)).
- [X] (19) 52.222-3, Convict Labor (June 2003) (E.O. 11755).
- [X] (20) 52.222-19, Child Labor—Cooperation with Authorities and Remedies (Aug 2009) (E.O. 13126).
- [X] (21) 52.222-21, Prohibition of Segregated Facilities (Feb 1999).
- [X] (22) 52.222-26, Equal Opportunity (Mar 2007) (E.O. 11246).
- [X] (23) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Sep 2006) (38 U.S.C. 4212).
- [X] (24) 52.222-36, Affirmative Action for Workers with Disabilities (Jun 1998) (29 U.S.C. 793).
- [X] (25) 52.222-37, Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Sep 2006) (38 U.S.C. 4212).
- [X] (26) 52.222-39, Notification of Employee Rights Concerning Payment of Union Dues or Fees (Dec 2004) (E.O. 13201).
- ___ (27) 52.222-54, Employment Eligibility Verification (Jan 2009). (Executive Order 12989). (Not applicable to the acquisition of commercially available off-the-shelf items or certain other types of commercial items as prescribed in 22.1803.)
- ___ (28) (i) 52.223-9, Estimate of Percentage of Recovered Material Content for EPA-Designated Items (May 2008) (42 U.S.C. 6962(c) (3) (A) (ii)). (Not applicable to the acquisition of commercially available off-the-shelf items.)
- ___ (ii) Alternate I (May 2008) of 52.223-9 (42 U.S.C. 6962(i) (2) (C)). (Not applicable to the acquisition of commercially available off-the-shelf items.)
- ___ (29) 52.223-15, Energy Efficiency in Energy-Consuming Products (Dec 2007) (42 U.S.C. 8259b).
- ___ (30) (i) 52.223-16, IEEE 1680 Standard for the Environmental Assessment of Personal Computer Products (Dec 2007) (E.O. 13423).
- ___ (ii) Alternate I (Dec 2007) of 52.223-16.
- ___ (31) 52.225-1, Buy American Act—Supplies (Feb 2009) (41 U.S.C. 10a-10d).
- ___ (32) (i) 52.225-3, Buy American Act—Free Trade Agreements—Israeli Trade Act (Jun 2009) (41 U.S.C. 10a-10d, 19 U.S.C. 3301 note, 19 U.S.C. 2112 note, 19 U.S.C. 3805 note, Pub. L. 108-77, 108-78, 108-286, 108-301, 109-53, 109-169, 109-283, and 110-138).

- ___ (ii) Alternate I (Jan 2004) of 52.225-3.
- ___ (iii) Alternate II (Jan 2004) of 52.225-3.
- X (33) 52.225-5, Trade Agreements (Aug 2009) (19 U.S.C. 2501, et seq., 19 U.S.C. 3301 note).
- [X] (34) 52.225-13, Restrictions on Certain Foreign Purchases (Jun 2008) (E.O.'s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of the Treasury).
- ___ (35) 52.226-4, Notice of Disaster or Emergency Area Set-Aside (Nov 2007) (42 U.S.C. 5150).
- ___ (36) 52.226-5, Restrictions on Subcontracting Outside Disaster or Emergency Area (Nov 2007) (42 U.S.C. 5150).
- X (37) 52.232-29, Terms for Financing of Purchases of Commercial Items (Feb 2002) (41 U.S.C. 255(f), 10 U.S.C. 2307(f)).
- ___ (38) 52.232.30, Installment Payments for Commercial Items (Oct 1995) (41 U.S.C. 255(f), 10 U.S.C. 2307(f)).
- ___ (39) 52.232-33, Payment by Electronic Funds Transfer—Central Contractor Registration (Oct. 2003) (31 U.S.C. 3332).
- [X] (40) 52.232-34, Payment by Electronic Funds Transfer—Other Than Central Contractor Registration (May 1999) (31 U.S.C. 3332).
- ___ (41) 52.232-36, Payment by Third Party (May 1999) (31 U.S.C. 3332).
- ___ (42) 52.239-1, Privacy or Security Safeguards (Aug 1996) (5 U.S.C. 552a).
- ___ (43) (i) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (Feb 2006) (46 U.S.C. Appx 1241(b) and 10 U.S.C. 2631).
- ___ (ii) Alternate I (Apr 2003) of 52.247-64.
- (c) The Contractor shall comply with the FAR clauses in this paragraph (c), applicable to commercial services, that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or executive orders applicable to acquisitions of commercial items:
[Contracting Officer check as appropriate.]
- ___ (1) 52.222-41, Service Contract Act of 1965 (Nov 2007) (41 U.S.C. 351, et seq.).
- ___ (2) 52.222-42, Statement of Equivalent Rates for Federal Hires (May 1989) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).
- ___ (3) 52.222-43, Fair Labor Standards Act and Service Contract Act -- Price Adjustment (Multiple Year and Option Contracts) (Sep 2009) (29 U.S.C.206 and 41 U.S.C. 351, et seq.).
- ___ (4) 52.222-44, Fair Labor Standards Act and Service Contract Act -- Price Adjustment (Sep 2009) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).
- ___ (5) 52.222-51, Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Requirements (Nov 2007) (41 U.S.C. 351, et seq.).
- ___ (6) 52.222-53, Exemption from Application of the Service Contract Act to Contracts for Certain Services--Requirements (Feb 2009) (41 U.S.C. 351, et seq.).
- ___ (7) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations. (Mar 2009) (Pub. L. 110-247).
- ___ (8) 52.237-11, Accepting and Dispensing of \$1 Coin (Sep 2008) (31 U.S.C. 5112(p) (1)).
- (d) Comptroller General Examination of Record The Contractor shall comply with the provisions of this paragraph (d) if this contract was awarded using other than sealed offer, is in excess of the simplified acquisition threshold, and does not contain the clause at 52.215-2, Audit and Records -- Negotiation.
- (1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.
- (2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.
- (3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.

(e)

(1) Notwithstanding the requirements of the clauses in paragraphs (a), (b), (c) and (d) of this clause, the Contractor is not required to flow down any FAR clause, other than those in this paragraph (e)(1) in a subcontract for commercial items. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause—

(i) 52.203-13, Contractor Code of Business Ethics and Conduct (Dec 2008) (Pub. L. 110-252, Title VI, Chapter 1 (41 U.S.C. 251 note)).

(ii) 52.219-8, Utilization of Small Business Concerns (May 2004) (15 U.S.C. 637(d) (2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$550,000 (\$1,000,000 for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.

(iii) [Reserved]

(iv) 52.222-26, Equal Opportunity (Mar 2007) (E.O. 11246).

(v) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Sep 2006) (38 U.S.C. 4212).

(vi) 52.222-36, Affirmative Action for Workers with Disabilities (June 1998) (29 U.S.C. 793).

(vii) 52.222-39, Notification of Employee Rights Concerning Payment of Union Dues or Fees (Dec 2004) (E.O. 13201).

(viii) 52.222-41, Service Contract Act of 1965, (Nov 2007), (41 U.S.C. 351, et seq.)

(ix) 52.222-50, Combating Trafficking in Persons (Feb 2009) (22 U.S.C. 7104(g)).

____ Alternate I (Aug 2007) of 52.222-50 (22 U.S.C. 7104(g)).

(x) 52.222-51, Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Requirements (Nov 2007) (41 U.S.C. 351, et seq.)

(xi) 52.222-53, Exemption from Application of the Service Contract Act to Contracts for Certain Services--Requirements (Feb 2009) (41 U.S.C. 351, et seq.)

(xii) 52.222-54, Employment Eligibility Verification (Jan 2009).

(xiii) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations. (Mar 2009) (Pub. L. 110-247). Flow down required in accordance with paragraph (e) of FAR clause 52.226-6.

(xiv) 52.247-64, Preference for Privately-Owned U.S. Flag Commercial Vessels (Feb 2006) (46 U.S.C. Appx 1241(b) and 10 U.S.C. 2631). Flow down required in accordance with paragraph (d) of FAR clause 52.247-64.

(2) While not required, the contractor may include in its subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

See Attachment 3 for appropriate Construction Clauses

Instructions for Completing SF 3881 Form

Make three copies of form after completing. Copy 1 is the Agency Copy; copy 2 is the Payee/Company Copy; and copy 3 is the Financial Institution Copy.

1. Agency Information Section - Federal agency prints or types the name and address of the Federal program agency originating the vendor/miscellaneous payment, agency identifier, agency location code, contact person name and telephone number of the agency. Also, the appropriate box for ACH format is checked.

2. Payee/Company Information Section - Payee prints or types the name of the payee/company and address that will receive ACH vendor/miscellaneous payments, social security or taxpayer ID number, and contact person name and telephone number of the payee/company. Payee also verifies depositor account number, account title, and type of account entered by your financial institution in the Financial Institution Information Section.

3. Financial Institution Information Section - Financial institution prints or types the name and address of the payee/company's financial institution who will receive the ACH payment, ACH coordinator name and telephone number, nine-digit routing transit number, depositor (payee/company) account title and account number. Also, the box for type of account is checked, and the signature, title, and telephone number of the appropriate financial institution official are included.

Burden Estimate Statement

The estimated average burden associated with this collection of information is 15 minutes per respondent or record keeper, depending on individual circumstances. Comments concerning the accuracy of this burden estimate and suggestions for reducing this burden should be directed to the Financial Management Service, Facilities Management Division, Property and Supply Branch, Room B-101, 3700 East West Highway, Hyattsville, MD 20782 and the Office of Management and Budget, Paperwork Reduction Project (1510-0056), Washington, DC 20503.

ATTACHMENT B

PRIOR EXPERIENCE

Instructions:

Complete the following prior experience information for the three most recent contracts your firm has held for Laundry Equipment for the same equipment in similar quantities. Please list contracts that you've held with commercial accounts or government agencies (other than the VA National Acquisition Center).

Company or Agency Name: _____

Point of Contact: _____

Phone Number: _____

E-Mail Address: _____

Equipment Provided: _____

Approx. Dollar Value of Contract: _____

Locations Where Equipment Installed: _____

Purchase Price of System: _____

Contract Period: _____

You may provide comments regarding this contract, including any information on problems encountered and corrective actions taken.

Attachment B Continued

Company or Agency Name: _____

Point of Contact: _____

Phone Number: _____

E-Mail Address: _____

Equipment Provided: _____

Approx. Dollar Value of Contract: _____

Locations Where Equipment Installed: _____

Purchase Price of System: _____

Contract Period: _____

You may provide comments regarding this contract, including any information on problems encountered and corrective actions taken.

Attachment B Continued

Company or Agency Name: _____

Point of Contact: _____

Phone Number: _____

E-Mail Address: _____

Equipment Provided: _____

Approx. Dollar Value of Contract: _____

Locations Where Equipment Installed: _____

Purchase Price of System: _____

Contract Period: _____

You may provide comments regarding this contract, including any information on problems encountered and corrective actions taken.

SECTION E - SOLICITATION PROVISIONS

E.1 52.212-1 INSTRUCTIONS TO OFFERORS--COMMERCIAL ITEMS (FEB 2012)

(a) North American Industry Classification System (NAICS) code and small business size standard. The NAICS code and small business size standard for this acquisition appear in Block 10 of the solicitation cover sheet (SF 1449). However, the small business size standard for a concern which submits an offer in its own name, but which proposes to furnish an item which it did not itself manufacture, is 500 employees.

(b) Submission of offers. Submit signed and dated offers to the office specified in this solicitation at or before the exact time specified in this solicitation. Offers may be submitted on the SF 1449, letterhead stationery, or as otherwise specified in the solicitation. As a minimum, offers must show --

(1) The solicitation number;

(2) The time specified in the solicitation for receipt of offers;

(3) The name, address, and telephone number of the offeror;

(4) A technical description of the items being offered in sufficient detail to evaluate compliance with the requirements in the solicitation. This may include product literature, or other documents, if necessary;

(5) Terms of any express warranty;

(6) Price and any discount terms;

(7) "Remit to" address, if different than mailing address;

(8) A completed copy of the representations and certifications at FAR 52.212-3 (see FAR 52.212-3(b) for those representations and certifications that the offeror shall complete electronically);

(9) Acknowledgment of Solicitation Amendments;

(10) Past performance information, when included as an evaluation factor, to include recent and relevant contracts for the same or similar items and other references (including contract numbers, points of contact with telephone numbers and other relevant information); and

(11) If the offer is not submitted on the SF 1449, include a statement specifying the extent of agreement with all terms, conditions, and provisions included in the solicitation. Offers that fail to furnish required representations or information, or reject the terms and conditions of the solicitation may be excluded from consideration.

(c) Period for acceptance of offers. (Tailored). The offeror agrees to hold the prices in its offer firm for 90 calendar days from the date specified for receipt of offers, unless another time period is specified in an addendum to the solicitation.

(d) Product samples. When required by the solicitation, product samples shall be submitted at or prior to the time specified for receipt of offers. Unless otherwise specified in this solicitation, these samples shall be submitted at no expense to the Government, and returned at the sender's request and expense, unless they are destroyed during preaward testing.

(e) Multiple offers. Offerors are encouraged to submit multiple offers presenting alternative terms and conditions or commercial items for satisfying the requirements of this solicitation. Each offer submitted will be evaluated separately.

(f) Late submissions, modifications, revisions, and withdrawals of offers.

(1) Offerors are responsible for submitting offers, and any modifications, revisions, or withdrawals, so as to reach the Government office designated in the solicitation by the time specified in the solicitation. If no time is specified in the solicitation, the time for receipt is 4:30 p.m., local time, for the designated Government office on the date that offers or revisions are due.

(2)(i) Any offer, modification, revision, or withdrawal of an offer received at the Government office designated in the solicitation after the exact time specified for receipt of offers is "late" and will not be considered unless it is received before award is made, the Contracting Officer determines that accepting the late offer would not unduly delay the acquisition; and--

(A) If it was transmitted through an electronic commerce method authorized by the solicitation, it was received at the initial point of entry to the Government infrastructure not later than 5:00 p.m. one working day prior to the date specified for receipt of offers; or

(B) There is acceptable evidence to establish that it was received at the Government installation designated for receipt of offers and was under the Government's control prior to the time set for receipt of offers; or

(C) If this solicitation is a request for proposals, it was the only proposal received.

(ii) However, a late modification of an otherwise successful offer, that makes its terms more favorable to the Government, will be considered at any time it is received and may be accepted.

(3) Acceptable evidence to establish the time of receipt at the Government installation includes the time/date stamp of that installation on the offer wrapper, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of Government personnel.

(4) If an emergency or unanticipated event interrupts normal Government processes so that offers cannot be received at the Government office designated for receipt of offers by the exact time specified in the solicitation, and urgent Government requirements preclude amendment of the solicitation or other notice of an extension of the closing date, the time specified for receipt of offers will be deemed to be extended to the same time of day specified in the solicitation on the first work day on which normal Government processes resume.

(5) Offers may be withdrawn by written notice received at any time before the exact time set for receipt of offers. Oral offers in response to oral solicitations may be withdrawn orally. If the solicitation authorizes facsimile offers, offers may be withdrawn via facsimile received at any time before the exact time set for receipt of offers, subject to the conditions specified in the solicitation concerning facsimile offers. An offer may be withdrawn in person by an offeror or its authorized representative if, before the exact time set for receipt of offers, the identity of the person requesting withdrawal is established and the person signs a receipt for the offer.

(g) Contract award (not applicable to Invitation for Offers). The Government intends to evaluate offers and award a contract without discussions with offerors. Therefore, the Offeror(s) initial offer should contain the Offeror(s) best terms from a price and technical standpoint. However, the Government reserves the right to conduct discussions if later determined by the Contracting Officer to be necessary. The Government may reject any or all offers if such action is in the public interest; accept other than the lowest offer; and waive informalities and minor irregularities in offers received.

(h) Multiple awards. The Government may accept any item or group of items of an offer, unless the offeror qualifies the offer by specific limitations. Unless otherwise provided in the Schedule, offers may not be submitted for quantities less than those specified. The Government reserves the right to make an award on any item for a quantity less than the quantity offered, at the unit prices offered, unless the offeror specifies otherwise in the offer.

(i) Availability of requirements documents cited in the solicitation.

(1)(i) The GSA Index of Federal Specifications, Standards and Commercial Item Descriptions, FPMR Part 101-29, and copies of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained for a fee by submitting a request to--

GSA Federal Supply Service Specifications Section Suite 8100 470 East L'Enfant Plaza, SW, Washington, DC 20407

Telephone (202) 619-8925 Facsimile (202) 619-8978.

(ii) If the General Services Administration, Department of Agriculture, or Department of Veterans Affairs issued this solicitation, a single copy of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained free of charge by submitting a request to the addressee in paragraph (i)(1)(i) of this provision. Additional copies will be issued for a fee.

(2) Most unclassified Defense specifications and standards may be downloaded from the following ASSIST websites:

(i) ASSIST (<http://assist.daps.dla.mil>).

(ii) Quick Search (<http://assist.daps.dla.mil/quicksearch>).

(iii) ASSISTdocs.com (<http://assistdocs.com>).

(3) Documents not available from ASSIST may be ordered from the Department of Defense Single Stock Point (DoDSSP) by?

(i) Using the ASSIST Shopping Wizard (<http://assist.daps.dla.mil/wizard>);

(ii) Phoning the DoDSSP Customer Service Desk (215) 697-2179, Mon-Fri, 0730 to 1600 EST; or

(iii) Ordering from DoDSSP, Building 4, Section D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Telephone (215) 697-2667/2179, Facsimile (215) 697-1462.

(4) Nongovernment (voluntary) standards must be obtained from the organization responsible for their preparation, publication, or maintenance.

(j) Data Universal Numbering System (DUNS) Number. (Applies to all offers exceeding \$3,000, and offers of \$3,000 or less if the solicitation requires the Contractor to be registered in the Central Contractor Registration (CCR) database. The offeror shall enter, in the block with its name and address on the cover page of its offer, the annotation "DUNS" or "DUNS +4" followed by the DUNS or DUNS +4 number that identifies the Offeror(s) name and address. The DUNS +4 is the DUNS number plus a 4-character suffix that may be assigned at the discretion of the offeror to establish additional CCR records for identifying alternative Electronic Funds Transfer (EFT) accounts (see FAR Subpart 32.11) for the same concern. If the offeror does not have a DUNS number, it should contact Dun and Bradstreet directly to obtain one. An offeror within the United States may contact Dun and Bradstreet by calling 1-866-705-5711 or via the internet at <http://www.fedgov.dnb.com/webform>. An offeror located outside the United States must contact the local Dun and Bradstreet office for a DUNS number. The offeror should indicate that it is an offeror for a Government contract when contacting the local Dun and Bradstreet office.

(k) Central Contractor Registration. Unless exempted by an addendum to this solicitation, by submission of an offer, the offeror acknowledges the requirement that a prospective awardee shall be registered in the CCR database prior to award, during performance and through final payment of any contract resulting from this solicitation. If the Offeror does not become registered in the CCR database in the time prescribed by the Contracting Officer, the Contracting Officer will proceed to award to the next otherwise successful registered Offeror. Offerors may obtain information on registration and annual confirmation requirements via the Internet at <http://www.ccr.gov> or by calling 1-888-227-2423 or 269-961-5757.

(l) Debriefing. If a post-award debriefing is given to requesting offerors, the Government shall disclose the following information, if applicable:

- (1) The agency's evaluation of the significant weak or deficient factors in the debriefed Offeror(s) offer.
- (2) The overall evaluated cost or price and technical rating of the successful and the debriefed offeror and past performance information on the debriefed offeror.
- (3) The overall ranking of all offerors, when any ranking was developed by the agency during source selection.
- (4) A summary of the rationale for award;
- (5) For acquisitions of commercial items, the make and model of the item to be delivered by the successful offeror.
- (6) Reasonable responses to relevant questions posed by the debriefed offeror as to whether source-selection procedures set forth in the solicitation, applicable regulations, and other applicable authorities were followed by the agency.

PROPOSAL ORGANIZATION

Offerors shall provide information as described below. Failure to submit complete information in the manner described below for either the Business or Technical Proposal may be considered a "no response" and exclude the proposal from further consideration.

The offeror shall submit its proposal in two volumes in the format and quantities described below:

VOLUME	VOLUME TITLE	NO. OF COPIES
I	BUSINESS	2
II	TECHNICAL	5

The volumes shall be submitted in a sealed envelope or box. The envelope shall be addressed to the office specified in the solicitation and shall show the time specified for receipt, the solicitation number, and the name and address of the offeror.

(1) Business Volume Content. The Business volume shall contain:

a. Pricing Proposal. The Offeror(s) Attachment 1, consisting of a properly completed and signed solicitation document as specified in Block 28 of Standard Form 1449. Offerors shall complete Blocks 30a, 30b, and 30c of the Standard Form 1449, and complete its annual certifications electronically at <https://www.sam.gov/portal/public/SAM/>. Offerors shall review and complete paragraph (b) of FAR 52.212-3, Offeror(s) Representations and Certifications – Commercial Items, which is included in this solicitation.

b. Past Performance/Prior Experience Information. For each of its three most recently completed contracts of comparable scope and dollar value, the offeror shall submit the following:

1. Contract number
2. Customer point of contact
3. Locations where equipment installed
4. Type and model of equipment installed
5. When the system was installed
6. Purchase price of the system

c. 852.215-70 Service-Disabled Veteran-Owned and Veteran-Owned Small Business Evaluation Factors. (DEC 2009)

(a) In an effort to achieve socioeconomic small business goals, depending on the evaluation factors included in the solicitation, VA shall evaluate offerors based on their service-disabled veteran-owned or veteran-owned small business status and their proposed use of eligible service-disabled veteran-owned small businesses and veteran-owned small businesses as subcontractors.

(b) Eligible service-disabled veteran-owned offerors will receive full credit, and offerors qualifying as veteran-owned small businesses will receive partial credit for the Service-Disabled Veteran-Owned and Veteran-owned Small Business Status evaluation factor. To receive credit, an offeror must be registered and verified in Vendor Information Pages (VIP) database. (<http://www.VetBiz.gov>).

(c) Non-veteran offerors proposing to use service-disabled veteran-owned small businesses or veteran-owned small businesses as subcontractors will receive some consideration under this evaluation factor. Offerors must state in their proposals the names of the SDVOSBs and VOSBs with whom they intend to subcontract and provide a brief description of the proposed subcontracts and the approximate dollar values of the proposed subcontracts. In addition, the proposed subcontractors must be registered and verified in the VetBiz.gov VIP database (<http://www.vetbiz.gov>).

(End of Clause)

(2) **Technical Volume Content**: No cost or price information shall be included in the Technical Proposal. Technical proposal should list the Offeror(s) capability to meet each specification, especially if the descriptive literature does not contain the required information. The offeror shall provide:

- a. **Textile Care Processing Equipment Layout Drawings (for information only)**: Submit descriptive literature, technical proposals, and 1/4-inch scale drawings of the layout of the textile care processing equipment offered. Drawings shall include adjacent equipment from original as-build drawings supplied by VA personnel to show that equipment offered will fit into the location or space available.
- b. **Written Narratives Outlining the Work Flow (for information only)**: Written narratives outlining the work flow must show that there are no bottlenecks with equipment offered that will affect overall production. Offeror is required to submit a description of removal and installation work schedule and phasing plan with sufficient detail to enable VA to determine the effect on production and operations that this project will have. It is critical to the VA to have as little down time as possible. The laundry operates an 8-hour day shift, Monday through Friday.
- c. **Descriptive Literature (for evaluation)**: Descriptive literature means information (e.g., cuts, illustrations, drawings and brochures) that is submitted as part of a technical proposal. Descriptive literature is required to establish, for the purpose of evaluation, details of the product offered that are specified in "Performance Specifications", and pertain to significant elements such as design, materials, components, performance characteristics, and methods of manufacture, assembly, construction, or operation.

For the purpose of determining technical acceptability, descriptive literature must be identified **(Highlighted)** to show the appropriate model and type and all component items for functions offered and clearly show that the item(s) offered are in compliance with these specifications.

Performance capabilities shall be listed for all offered equipment. Identify in the submitted technical data where these capabilities are described. The statement "COMPLIES" is not acceptable.

- d. **Model Numbers, Etc. (for evaluation):** Offeror/offeree must indicate on a separate document, the name of the manufacturer, model and/or catalog number (Highlighted), quantity, and a description of each offered product and/or components.
 - e. **Training Materials and Videos (for information only, not to be evaluated):** The offeror shall submit a list of the training materials and training videos to be provided for this solicitation.
 - f. **The schedule of preventive maintenance (for information only):** The offeror shall submit a list of preventive maintenance for the system offered which shall be performed during the guarantee period. The offeror shall describe the frequency and duration of downtime required for scheduled preventative hardware maintenance.
 - g. **Information on the number of service technicians (for information only):** The offeror shall state the number of service technicians available in the service region/area and location of the nearest service base. The offeror shall state whether a help desk, toll free number, a 24-hour "Hot Line", or modem support is available. The offeror shall describe the procedures, telephone numbers and contact personnel for reporting system trouble. **Any additional cost for these services shall be detailed in the Offeror(s) business proposal.**
 - h. **Listing of the consumables (for information only):** The offeror shall submit a listing of consumables used by the equipment by part number and quantity.
 - i. **Commercial Operation:** On a separate document, Offeror shall provide the appropriate "Purchase Description" and specific model number, type, and class offered for equipment offered.
 - j. **Work Schedule and Phasing Plan:** Successful offeror is required to submit a description of the demolition and installation work schedule and phasing plan with sufficient detail to enable VA to determine the effect on production and operations that this project will have.
3. **Commercial Operation Certification:** The offeror/Offeree hereby certifies that the equipment offered herein is in compliance with "Commercial Operation" provisions as stated above.

(Name Printed) (Title) (Date)

(Signature) (Title) (Date)

(Company Name)

4. **Parts and Service:** Successful offeror/Offeree is fully responsible for the parts and services to be provided.
5. **Repair Parts Availability:** - Manufacturers Certification: On a separate document the manufacturer of equipment offered shall certify that, in the event of award, repair parts for equipment furnished will be available for a minimum of ten (10) years after the guarantee commencement date through standard Commercial Sources. Certification document shall include:
 - a. Appropriate "Purchase Description" and specific model number/type offered.
 - b. Manufacturer's signature, title and date signed.
 - a. Manufacturers company name, address, and telephone number.

E.2 52.209-7 Information Regarding Responsibility Matters. (Feb 2012)

(a) Definitions. As used in this provision—

“Administrative proceeding” means a non-judicial process that is adjudicatory in nature in order to make a determination of fault or liability (e.g., Securities and Exchange Commission Administrative Proceedings, Civilian Board of Contract Appeals Proceedings, and Armed Services Board of Contract Appeals Proceedings). This includes administrative proceedings at the Federal and State level but only in connection with performance of a Federal contract or grant. It does not include agency actions such as contract audits, site visits, corrective plans, or inspection of deliverables.

“Federal contracts and grants with total value greater than \$10,000,000” means—

(1) The total value of all current, active contracts and grants, including all priced options; and

(2) The total value of all current, active orders including all priced options under indefinite-delivery, indefinite-quantity, 8(a), or requirements contracts (including task and delivery and multiple-award Schedules).

“Principal” means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a division or business segment; and similar positions).

(b) The offeror [] has [] does not have current active Federal contracts and grants with total value greater than \$10,000,000.

(c) If the offeror checked “has” in paragraph (b) of this provision, the offeror represents, by submission of this offer, that the information it has entered in the Federal Awardee Performance and Integrity Information System (FAPIS) is current, accurate, and complete as of the date of submission of this offer with regard to the following information:

(1) Whether the offeror, and/or any of its principals, has or has not, within the last five years, in connection with the award to or performance by the offeror of a Federal contract or grant, been the subject of a proceeding, at the Federal or State level that resulted in any of the following dispositions:

(i) In a criminal proceeding, a conviction.

(ii) In a civil proceeding, a finding of fault and liability that results in the payment of a monetary fine, penalty, reimbursement, restitution, or damages of \$5,000 or more.

(iii) In an administrative proceeding, a finding of fault and liability that results in—

(A) The payment of a monetary fine or penalty of \$5,000 or more; or

(B) The payment of a reimbursement, restitution, or damages in excess of \$100,000.

(iv) In a criminal, civil, or administrative proceeding, a disposition of the matter by consent or compromise with an acknowledgment of fault by the Contractor if the proceeding could have led to any of the outcomes specified in paragraphs (c)(1)(i), (c)(1)(ii), or (c)(1)(iii) of this provision.

(2) If the offeror has been involved in the last five years in any of the occurrences listed in (c) (1) of this provision, whether the offeror has provided the requested information with regard to each occurrence.

(d) The offeror shall post the information in paragraphs (c) (1) (i) through (c) (1) (iv) of this provision in FAPIS as required through maintaining an active registration in the Central Contractor Registration database via <https://www.acquisition.gov> (see 52.204-7).

(End of provision)

E.3 52.216-1 Type of Contract. (Apr 1984) (Tailored)

The Government contemplates award of (one or more) Firm Fixed Price Contract(s) resulting from this solicitation.

(End of provision)

E.4 52.214-34 SUBMISSION OF OFFERS IN THE ENGLISH LANGUAGE (APR 1991)

Offers submitted in response to this solicitation shall be in the English language. Offers received in other than English shall be rejected.

E.5 52.214-35 SUBMISSION OF OFFERS IN U.S. CURRENCY (APR 1991)

Offers submitted in response to this solicitation shall be in terms of U.S. dollars. Offers received in other than U.S. dollars shall be rejected.

E.6 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

<http://www.acquisition.gov/far/index.html>

<http://www.va.gov/oamm/oa/ars/policyreg/vaar/index.cfm>

E.7 52.232-38 SUBMISSION OF ELECTRONIC FUNDS TRANSFER INFORMATION WITH OFFER (MAY 1999)

The offeror shall provide, with its offer, the following information that is required to make payment by electronic funds transfer (EFT) under any contract that results from this solicitation. This submission satisfies the requirement to provide EFT information under paragraphs (b) (1) and (j) of the clause at 52.232-34, Payment by Electronic Funds Transfer--Other than Central Contractor Registration.

- (1) The solicitation number (or other procurement identification number).
- (2) The Offeror(s) name and remittance address, as stated in the offer.
- (3) The signature (manual or electronic, as appropriate), title, and telephone number of the Offeror(s) official authorized to provide this information.
- (4) The name, address, and 9-digit Routing Transit Number of the Offeror(s) financial agent.
- (5) The Offeror(s) account number and the type of account (checking, savings, or lockbox).
- (6) If applicable, the Fedwire Transfer System telegraphic abbreviation of the Offeror(s) financial agent.

(7) If applicable, the offeror shall also provide the name, address, telegraphic abbreviation, and 9-digit Routing Transit Number of the correspondent financial institution receiving the wire transfer payment if the Offeror(s) financial agent is not directly on-line to the Fedwire and, therefore, not the receiver of the wire transfer payment.

E.8 52.212-2 EVALUATION--COMMERCIAL ITEMS (JAN 1999)

NOTE: This solicitation may result in contract awards made to one or more offerors. Each Item will be evaluated separately. However the offeror selected for the Item(s) will also be selected for the installation of the Item(s).

NOTE: Any equipment, installation or operating procedure deemed to be unsafe by the VA at any time prior to successful Final Installation Inspection will be cause for rejection of the equipment, installation or operating procedure.

The Government will award contract(s) resulting from this solicitation to the responsible offeror(s) whose offer(s) conforming to this solicitation will be most advantageous to the Government, price and other factors considered.

(a) Technical acceptability of the offered item will be determined by verifying the offered item's compliance with the item's Performance Specification listed in Attachment 2 of the solicitation. Technical Volume content and product literature will be reviewed to determine whether offered items are technically acceptable. Items determined not to be technically acceptable or which have incomplete and/or inadequate Technical Volume information required to determine technical acceptability, will be rejected and receive no further consideration.

(b) Items, which have been determined to be technically acceptable, will then be evaluated in a trade-off process using the following factors listed in descending order of importance. The non-price factors of Quality/Past Performance, Technical Capability, Work Plan, Warranty and SDB/SDVOSB/VOSB when combined are significantly more important than Price.

1. Quality/Past Performance. The Government will evaluate the Offeror(s) reputation for quality and past performance. By quality and past performance the Government means the Offeror(s) reputation for conforming to specifications and to standards of good workmanship; the Offeror(s) reputation for adherence to contract schedules, including both technical and administrative aspects of performance. The Government will evaluate quality/past performance on the basis of information that may be obtained from the offeror, such as previous commercial and Government contracts. The Government may also use any relevant information in its possession or in the public domain.

2. Technical Capability. The Government will evaluate how well the proposed system design meets the requirement as described in the specifications. The Government will evaluate this capability on the basis of information obtained from the offeror, such as descriptive literature and the technical proposal. The Government may also use any relevant information in its possession or in the public domain. Ability to provide functions that are not required by the specifications may increase an offer's rating for this factor.

3. Work plan. Phasing of the work and schedule for completion are important factors that will be evaluated. Production down time must be kept to a minimum. Offeror(s) ability to keep the laundry up and running to the maximum extent is an important consideration. Likewise, time is of the essence. Offeror(s) ability to furnish and install the new equipment in a timely fashion is an important consideration as well.

4. Warranty. Any warranty offered beyond the required one year minimum may increase the offer's rating for this factor

5. SDB/SDVOSB/VOSB Participation. Offeror(s) will be evaluated by the amount of SDB/SDVOSB/VOSB participation.

6. Price. The Government will evaluate the Offeror(s) proposed Final Equipment Price(s) as compared to the rating of all the above factors for that Equipment.

(a) Equipment layout and drawings will be evaluated for conformance to all requirements of the Statement of Work.

(b) A written notice of award or acceptance of an offer mailed or otherwise furnished to the successful offeror(s) within the time for acceptance specified in the offer, shall result in a binding contract without further action by either party. Before the offer's specified expiration time, the Government may accept an offer (or part of an offer), whether or not there are negotiations after its receipt, unless a written notice of withdrawal is received before award.

1. Building column line identification, north arrow, arrow indicating soil in, and arrow indicating clean out.

2. Overall layout dimensions in relationship to floor space requirements, plus monorail heights.

A minimum clearance of 36 inches between moving parts and fixed objects and 24 inches between non-moving parts and fixed objects is required.

3. Drawings shall have a legend listing all equipment proposed, including quantities, and identify locations of equipment (including blow-down devices and central vacuum drop points).

4. Actual filled sling locations that comply with VA storage and sling requirements specified elsewhere in this document.

5. Mathematical calculations depicting volume requirements for all conveyors and all equipment offered, including a summation that depicts total system compliance.

NOTE: After Award, within 45 calendar days, the successful Offeror shall furnish eight (8) sets of job specific drawings (footprint) and a digital copy in AutoCad format, (latest version) of required utilities. Detailed requirements of these drawings will be specified in the solicitation.

E.9 52.212-3 OFFEROR REPRESENTATIONS AND CERTIFICATIONS-- COMMERCIAL ITEMS (JULY 2009)

An offeror shall complete only paragraphs (b) of this provision if the offeror has completed the annual representations and certificates electronically at <http://orca.bpn.gov>. If an offeror has not completed the annual representations and certifications electronically at the ORCA website, the offeror shall complete only paragraphs (c) through (m) of this provision.

(a) Definitions. As used in this provision--

"Emerging small business" means a small business concern whose size is no greater than 50 percent of the numerical size standard for the NAICS code designated.

"Forced or indentured child labor" means all work or service—

(1) Exacted from any person under the age of 18 under the menace of any penalty for its nonperformance and for which the worker does not offer himself voluntarily; or

(2) Performed by any person under the age of 18 pursuant to a contract the enforcement of which can be accomplished by process or penalties.

“Inverted domestic corporation” means a foreign incorporated entity which is treated as an inverted domestic corporation under 6 U.S.C. 395(b), i.e., a corporation that used to be incorporated in the United States, or used to be a partnership in the United States, but now is incorporated in a foreign country, or is a subsidiary whose parent corporation is incorporated in a foreign country, that meets the criteria specified in 6 U.S.C. 395(b), applied in accordance with the rules and definitions of 6 U.S.C. 395(c).

“Manufactured end product” means any end product in Federal Supply Classes (FSC) 1000-9999, except—

- (1) FSC 5510, Lumber and Related Basic Wood Materials;
- (2) Federal Supply Group (FSG) 87, Agricultural Supplies;
- (3) FSG 88, Live Animals;
- (4) FSG 89, Food and Related Consumables;
- (5) FSC 9410, Crude Grades of Plant Materials;
- (6) FSC 9430, Miscellaneous Crude Animal Products, Inedible;
- (7) FSC 9440, Miscellaneous Crude Agricultural and Forestry Products;
- (8) FSC 9610, Ores;
- (9) FSC 9620, Minerals, Natural and Synthetic; and
- (10) FSC 9630, Additive Metal Materials.

“Place of manufacture” means the place where an end product is assembled out of components, or otherwise made or processed from raw materials into the finished product that is to be provided to the Government. If a product is disassembled and reassembled, the place of reassembly is not the place of manufacture.

“Restricted business operations” means business operations in Sudan that include power production activities, mineral extraction activities, oil-related activities, or the production of military equipment, as those terms are defined in the Sudan Accountability and Divestment Act of 2007 (Pub. L. 110-174). Restricted business operations do not include business operations that the person conducting the business can demonstrate—

- (1) Are conducted under contract directly and exclusively with the regional government of southern Sudan;
- (2) Are conducted pursuant to specific authorization from the Office of Foreign Assets Control in the Department of the Treasury, or are expressly exempted under Federal law from the requirement to be conducted under such authorization;
- (3) Consist of providing goods or services to marginalized populations of Sudan;
- (4) Consist of providing goods or services to an internationally recognized peacekeeping force or humanitarian organization;
- (5) Consist of providing goods or services that are used only to promote health or education; or
- (6) Have been voluntarily suspended.

“Service-disabled veteran-owned small business concern”—

(1) Means a small business concern—

(i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and

(ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a service-disabled veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

(2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

“Small business concern” means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is offering on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and size standards in this solicitation.

“Veteran-owned small business concern” means a small business concern—

(1) Not less than 51 percent of which is owned by one or more veterans(as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and

(2) The management and daily business operations of which are controlled by one or more veterans.

“Women-owned business concern” means a concern which is at least 51 percent owned by one or more women; or in the case of any publicly owned business, at least 51 percent of the its stock is owned by one or more women; and whose management and daily business operations are controlled by one or more women.

“Women-owned small business concern” means a small business concern --

(1) That is at least 51 percent owned by one or more women or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and

(2) Whose management and daily business operations are controlled by one or more women.

(b)

(1) Annual Representations and Certifications. Any changes provided by the offeror in paragraph (b) (2) of this provision do not automatically change the representations and certifications posted on the Online Representations and Certifications Application (ORCA) website.

(2) The offeror has completed the annual representations and certifications electronically via the ORCA website at <http://orca.bpn.gov> .After reviewing the ORCA database information, the offeror verifies by submission of this offer that the representation and certifications currently posted electronically at FAR 52.212-3, Offeror Representations and Certifications—Commercial Items, have been entered or updated in the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201), except for paragraphs _____. [Offeror to identify the applicable paragraphs at (c) through (n) of this provision that the offeror has completed for the purposes of this solicitation only, if any. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer. Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on ORCA.]

(c) Offerors must complete the following representations when the resulting contract is to be performed in the United States or its outlying areas. Check all that apply.

(1) Small business concern. The offeror represents as part of its offer that it ☐ is, ☐ is not a small business concern.

(2) Veteran-owned small business concern. [Complete only if the offeror represented itself as a small business concern in paragraph (c) (1) of this provision.] The offeror represents as part of its offer that it ☐ is, ☐ is not a veteran-owned small business concern.

(3) Service-disabled veteran-owned small business concern. [Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (c) (2) of this provision.] The offeror represents as part of its offer that it ☐ is, ☐ is not a service-disabled veteran-owned small business concern.

(4) Small disadvantaged business concern. [Complete only if the offeror represented itself as a small business concern in paragraph (c) (1) of this provision.] The offeror represents, for general statistical purposes, that it ☐ is, ☐ is not, a small disadvantaged business concern as defined in 13 CFR 124.1002.

(5) Women-owned small business concern. [Complete only if the offeror represented itself as a small business concern in paragraph (c) (1) of this provision.] The offeror represents that it ☐ is, ☐ is not a women-owned small business concern.

Note: Complete paragraphs (c) (6) and (c) (7) only if this solicitation is expected to exceed the simplified acquisition threshold.

(6) Women-owned business concern (other than small business concern). [Complete only if the offeror is a women-owned business concern and did not represent itself as a small business concern in paragraph (c) (1) of this provision.]. The offeror represents that it ☐ is, a women-owned business concern.

(7) Tie offer priority for labor surplus area concerns. If this is an invitation for offer, small business offerors may identify the labor surplus areas in which Price to be incurred on account of manufacturing or production (by offeror or first-tier subcontractors) amount to more than 50 percent of the contract price:

(8) Small Business Size for the Small Business Competitiveness Demonstration Program and for the Targeted Industry Categories under the Small Business Competitiveness Demonstration Program. [Complete only if the offeror has represented itself to be a small business concern under the size standards for this solicitation.]

(i) [Complete only for solicitations indicated in an addendum as being set-aside for emerging small businesses in one of the designated industry groups (DIGs).] The offeror represents as part of its offer that it ☐ is, ☐ is not an emerging small business.

(ii) [Complete only for solicitations indicated in an addendum as being for one of the targeted industry categories (TICs) or designated industry groups (DIGs).] Offeror represents as follows:

(A) Offeror(s) number of employees for the past 12 months (check the Employees column if size standard stated in the solicitation is expressed in terms of number of employees); or

(B) Offeror(s) average annual gross revenue for the last 3 fiscal years (check the Average Annual Gross Number of Revenues column if size standard stated in the solicitation is expressed in terms of annual receipts).

(Check one of the following):

Number of Employees Average Annual Gross Revenues

50 or fewer \$1 million or less

51-100 \$1,000,001-\$2 million

101-250 \$2,000,001-\$3.5 million

251-500 \$3,500,001-\$5 million

501-750 \$5,000,001-\$10 million

751-1,000 \$10,000,001-\$17 million

Over 1,000 Over \$17 million

(9) [Complete only if the solicitation contains the clause at FAR 52.219-23, Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns, or FAR 52.219-25, Small Disadvantaged Business Participation Program—Disadvantaged Status and Reporting, and the offeror desires a benefit based on its disadvantaged status.]

(i) General. The offeror represents that either—

(A) It ☐ is, ☐ is not certified by the Small Business Administration as a small disadvantaged business concern and identified, on the date of this representation, as a certified small disadvantaged business concern in the database maintained by the Small Business Administration (PRO-Net), and that no material change in disadvantaged ownership and control has occurred since its certification, and, where the concern is owned by one or more individuals claiming disadvantaged status, the net worth of each individual upon whom the certification is based does not exceed \$750,000 after taking into account the applicable exclusions set forth at 13 CFR 124.104(c)(2); or

(B) It ☐ has, ☐ has not submitted a completed application to the Small Business Administration or a Private Certifier to be certified as a small disadvantaged business concern in accordance with 13 CFR 124, Subpart B, and a decision on that application is pending, and that no material change in disadvantaged ownership and control has occurred since its application was submitted.

(ii) Joint Ventures under the Price Evaluation Adjustment for Small Disadvantaged Business Concerns. The offeror represents, as part of its offer, that it is a joint venture that complies with the requirements in 13 CFR 124.1002(f) and that the representation in paragraph (c)(9)(i) of this provision is accurate for the small disadvantaged business concern that is participating in the joint venture. [The offeror shall enter the name of the small disadvantaged business concern that is participating in the joint venture: _____.]

(10) HUBZone small business concern. [Complete only if the offeror represented itself as a small business concern in paragraph (c) (1) of this provision.] The offeror represents, as part of its offer, that--

(i) It ☐ is, ☐ is not a HUBZone small business concern listed, on the date of this representation, on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration, and no material change in ownership and control, principal office, or HUBZone employee percentage has occurred since it was certified by the Small Business Administration in accordance with 13 CFR part 126; and

(ii) It ☐ is, ☐ not a joint venture that complies with the requirements of 13 CFR part 126, and the representation in paragraph (c)(10)(i) of this provision is accurate for the HUBZone small business concern or concerns that are participating in the joint venture. [The offeror shall enter the name or names of the HUBZone small business concern or concerns that are participating in the joint venture: _____.] Each HUBZone small business concern participating in the joint venture shall submit a separate signed copy of the HUBZone representation.

(d) Representations required to implement provisions of Executive Order 11246 --

(1) Previous contracts and compliance. The offeror represents that --

(i) It ☐ has, ☐ has not, participated in a previous contract or subcontract subject to the Equal Opportunity clause of this solicitation; and

(ii) It ☐ has, ☐ has not, filed all required compliance reports.

(2) Affirmative Action Compliance. The offeror represents that --

(i) It ☐ has developed and has on file, ☐ has not developed and does not have on file, at each establishment, affirmative action programs required by rules and regulations of the Secretary of Labor (41 CFR parts 60-1 and 60-2), or

(ii) It ☐ has not previously had contracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.

(e) Certification Regarding Payments to Influence Federal Transactions (31 U.S.C. 1352). (Applies only if the contract is expected to exceed \$100,000.) By submission of its offer, the offeror certifies to the best of its knowledge and belief that no Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress or an employee of a Member of Congress on his or her behalf in connection with the award of any resultant contract. If any registrants under the Lobbying Disclosure Act of 1995 have made a lobbying contact on behalf of the offeror with respect to this contract, the offeror shall complete and submit, with its offer, OMB Standard Form LLL, Disclosure of Lobbying Activities, to provide the name of the registrants. The offeror need not report regularly employed officers or employees of the offeror to whom payments of reasonable compensation were made.

(f) Buy American Act Certificate. (Applies only if the clause at Federal Acquisition Regulation (FAR) 52.225-1, Buy American Act – Supplies, is included in this solicitation.)

(1) The offeror certifies that each end product, except those listed in paragraph (f)(2) of this provision, is a domestic end product and that for other than COTS items, the offeror has considered components of unknown origin to have been mined, produced, or manufactured outside the United States. The offeror shall list as foreign end products those end products manufactured in the United States that do not qualify as domestic end products, i.e., an end product that is not a COTS item and does not meet the component test in paragraph (2) of the definition of “domestic end product.” The terms “commercially available off-the-shelf (COTS) item,” “component,” “domestic end product,” “end product,” “foreign end product,” and “United States” are defined in the clause of this solicitation entitled “Buy American Act—Supplies.”

(2) Foreign End Products:

LINE ITEM NO. COUNTRY OF ORIGIN _____

[List as necessary]

(3) The Government will evaluate offers in accordance with the policies and procedures of FAR Part 25.

(g)

(1) Buy American Act -- Free Trade Agreements -- Israeli Trade Act Certificate. (Applies only if the clause at FAR 52.225-3, Buy American Act -- Free Trade Agreements -- Israeli Trade Act, is included in this solicitation.)

(i) The offeror certifies that each end product, except those listed in paragraph (g)(1)(ii) or (g)(1)(iii) of this provision, is a domestic end product and that for other than COTS items, the offeror has considered components of unknown origin to have been mined, produced, or manufactured outside the United States. The terms “Bahrainian, Moroccan, Omani, or Peruvian end product,” “commercially available off-the-shelf (COTS) item,” “component,” “domestic end product,” “end product,” “foreign end product,” “Free Trade Agreement country,” “Free Trade Agreement country end product,” “Israeli end product,” and ‘United States’ are defined in the clause of this solicitation entitled “Buy American Act--Free Trade Agreements--Israeli Trade Act.”

(ii) The offeror certifies that the following supplies are Free Trade Agreement country end products (other than Bahrainian, Moroccan, Omani, or Peruvian end products) or Israeli end products as defined in the clause of this solicitation entitled “Buy American Act—Free Trade Agreements—Israeli Trade Act”:

Free Trade Agreement Country End Products (Other than Bahrainian or Moroccan End Products) or Israeli End Products:

LINE ITEM NO. COUNTRY OF ORIGIN _____

[List as necessary]

(iii) The offeror shall list those supplies that are foreign end products (other than those listed in paragraph (g)(1)(ii) or this provision) as defined in the clause of this solicitation entitled “Buy American Act—Free Trade Agreements—Israeli Trade Act.” The offeror shall list as other foreign end products those end products manufactured in the United States that do not qualify as domestic end products, i.e., an end product that is not a COTS item and does not meet the component test in paragraph (2) of the definition of “domestic end product.”

Other Foreign End Products:

LINE ITEM NO. COUNTRY OF ORIGIN _____

[List as necessary]

(iv) The Government will evaluate offers in accordance with the policies and procedures of FAR Part 25.

(2) Buy American Act—Free Trade Agreements—Israeli Trade Act Certificate, Alternate I. If Alternate I to the clause at FAR 52.225-3 is included in this solicitation, substitute the following paragraph (g) (1) (ii) for paragraph (g) (1) (ii) of the basic provision:

(g)(1)(ii) The offeror certifies that the following supplies are Canadian end products as defined in the clause of this solicitation entitled “Buy American Act—Free Trade Agreements—Israeli Trade Act”:

Canadian End Products:

Line Item No.:

[List as necessary]

(3) Buy American Act—Free Trade Agreements—Israeli Trade Act Certificate, Alternate II. If Alternate II to the clause at FAR 52.225-3 is included in this solicitation, substitute the following paragraph (g) (1) (ii) for paragraph (g) (1) (ii) of the basic provision:

(g)(1)(ii) The offeror certifies that the following supplies are Canadian end products or Israeli end products as defined in the clause of this solicitation entitled “Buy American Act--Free Trade Agreements--Israeli Trade Act”:

Canadian or Israeli End Products:

Line Item No.: Country of Origin:

[List as necessary]

(4) Trade Agreements Certificate. (Applies only if the clause at FAR 52.225-5, Trade Agreements, is included in this solicitation.)

(i) The offeror certifies that each end product, except those listed in paragraph (g)(4)(ii) of this provision, is a U.S.-made or designated country end product as defined in the clause of this solicitation entitled “Trade Agreements.”

(ii) The offeror shall list as other end products those end products that are not U.S.-made or designated country end products.

Other End Products

Line Item No.: Country of Origin:

[List as necessary]

(iii) The Government will evaluate offers in accordance with the policies and procedures of FAR Part 25. For line items covered by the WTO GPA, the Government will evaluate offers of U.S.-made or designated country end products without regard to the restrictions of the Buy American Act. The Government will consider for award only offers of U.S.-made or designated country end products unless the Contracting Officer determines that there are no offers for such products or that the offers for such products are insufficient to fulfill the requirements of the solicitation.

(h) Certification Regarding Responsibility Matters (Executive Order 12689). (Applies only if the contract value is expected to exceed the simplified acquisition threshold.) The offeror certifies, to the best of its knowledge and belief, that the offeror and/or any of its principals--

(1) ☐ Are, ☐ are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency;

(2) ☐ Have, ☐ have not, within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a Federal, state or local government contract or subcontract; violation of Federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery,

falsification or destruction of records, making false statements, tax evasion, violating Federal criminal tax laws, or receiving stolen property; and

(3) ☐ Are, ☐ are not presently indicted for, or otherwise criminally or civilly charged by a Government entity with, commission of any of these offenses enumerated in paragraph (h)(2) of this clause; and

(4) ☐ Have, ☐ have not, within a three-year period preceding this offer, been notified of any delinquent Federal taxes in an amount that exceeds \$3,000 for which the liability remains unsatisfied.

(i) Taxes are considered delinquent if both of the following criteria apply:

(A) The tax liability is finally determined. The liability is finally determined if it has been assessed. A liability is not finally determined if there is a pending administrative or judicial challenge. In the case of a judicial challenge to the liability, the liability is not finally determined until all judicial appeal rights have been exhausted.

(B) The taxpayer is delinquent in making payment. A taxpayer is delinquent if the taxpayer has failed to pay the tax liability when full payment was due and required. A taxpayer is not delinquent in cases where enforced collection action is precluded.

(ii) Examples.

(A) The taxpayer has received a statutory notice of deficiency, under I.R.C. §6212, which entitles the taxpayer to seek Tax Court review of a proposed tax deficiency. This is not a delinquent tax because it is not a final tax liability. Should the taxpayer seek Tax Court review, this will not be a final tax liability until the taxpayer has exercised all judicial appeal rights.

(B) The IRS has filed a notice of Federal tax lien with respect to an assessed tax liability, and the taxpayer has been issued a notice under I.R.C. §6320 entitling the taxpayer to request a hearing with the IRS Office of Appeals Contesting the lien filing, and to further appeal to the Tax Court if the IRS determines to sustain the lien filing. In the course of the hearing, the taxpayer is entitled to contest the underlying tax liability because the taxpayer has had no prior opportunity to contest the liability. This is not a delinquent tax because it is not a final tax liability. Should the taxpayer seek tax court review, this will not be a final tax liability until the taxpayer has exercised all judicial appeal rights.

(C) The taxpayer has entered into an installment agreement pursuant to I.R.C. §6159. The taxpayer is making timely payments and is in full compliance with the agreement terms. The taxpayer is not delinquent because the taxpayer is not currently required to make full payment.

(D) The taxpayer has filed for bankruptcy protection. The taxpayer is not delinquent because enforced collection action is stayed under 11 U.S.C. §362 (the Bankruptcy Code).

(i) Certification Regarding Knowledge of Child Labor for Listed End Products (Executive Order 13126). [The Contracting Officer must list in paragraph (i) (1) any end products being acquired under this solicitation that are included in the List of Products Requiring Contractor Certification as to Forced or Indentured Child Labor, unless excluded at 22.1503(b).]

(1) Listed End Product

Listed End Product: Listed Countries of Origin:

(2) Certification. [If the Contracting Officer has identified end products and countries of origin in paragraph (i)(1) of this provision, then the offeror must certify to either (i)(2)(i) or (i)(2)(ii) by checking the appropriate block.]

☐ (i) The offeror will not supply any end product listed in paragraph (i)(1) of this provision that was mined, produced, or manufactured in the corresponding country as listed for that product.

☐ (ii) The offeror may supply an end product listed in paragraph (i)(1) of this provision that was mined, produced, or manufactured in the corresponding country as listed for that product. The offeror certifies that it has made a good faith effort to determine whether forced or indentured child labor was used to mine, produce, or manufacture any such end product furnished under this contract. On the basis of those efforts, the offeror certifies that it is not aware of any such use of child labor.

(j) Place of manufacture. (Does not apply unless the solicitation is predominantly for the acquisition of manufactured end products.) For statistical purposes only, the offeror shall indicate whether the place of manufacture of the end products it expects to provide in response to this solicitation is predominantly—

(1) ☐ In the United States (Check this box if the total anticipated price of offered end products manufactured in the United States exceeds the total anticipated price of offered end products manufactured outside the United States); or

(2) ☐ Outside the United States.

(k) Certificates regarding exemptions from the application of the Service Contract Act. (Certification by the offeror as to its compliance with respect to the contract also constitutes its certification as to compliance by its subcontractor if it subcontracts out the exempt services.) [The contracting officer is to check a box to indicate if paragraph (k) (1) or (k) (2) applies.]

(1) ☐ Maintenance, calibration, or repair of certain equipment as described in FAR 22.1003-4(c) (1). The offeror ☐ does ☐ does not certify that—

(i) The items of equipment to be serviced under this contract are used regularly for other than Governmental purposes and are sold or traded by the offeror (or subcontractor in the case of an exempt subcontract) in substantial quantities to the general public in the course of normal business operations;

(ii) The services will be furnished at prices which are, or are based on, established catalog or market prices (see FAR 22.1003-4(c) (2) (ii)) for the maintenance, calibration, or repair of such equipment; and

(iii) The compensation (wage and fringe benefits) plan for all service employees performing work under the contract will be the same as that used for these employees and equivalent employees servicing the same equipment of commercial customers.

(2) ☐ Certain services as described in FAR 22.1003-4(d) (1). The offeror ☐ does ☐ does not certify that—

(i) The services under the contract are offered and sold regularly to non-Governmental customers, and are provided by the offeror (or subcontractor in the case of an exempt subcontract) to the general public in substantial quantities in the course of normal business operations;

(ii) The contract services will be furnished at prices that are, or are based on, established catalog or market prices (see FAR 22.1003-4(d) (2) (iii));

(iii) Each service employee who will perform the services under the contract will spend only a small portion of his or her time (a monthly average of less than 20 percent of the available hours on an annualized basis, or less than 20 percent of available hours during the contract period if the contract period is less than a month) servicing the Government contract; and

(iv) The compensation (wage and fringe benefits) plan for all service employees performing work under the contract is the same as that used for these employees and equivalent employees servicing commercial customers.

(3) If paragraph (k) (1) or (k) (2) of this clause applies—

(i) If the offeror does not certify to the conditions in paragraph (k)(1) or (k)(2) and the Contracting Officer did not attach a Service Contract Act wage determination to the solicitation, the offeror shall notify the Contracting Officer as soon as possible; and

(ii) The Contracting Officer may not make an award to the offeror if the offeror fails to execute the certification in paragraph (k) (1) or (k) (2) of this clause or to contact the Contracting Officer as required in paragraph (k) (3) (i) of this clause.

(1) Taxpayer identification number (TIN) (26 U.S.C. 6109, 31 U.S.C. 7701). (Not applicable if the offeror is required to provide this information to a central contractor registration database to be eligible for award.)

(1) All offerors must submit the information required in paragraphs (1)(3) through (1)(5) of this provision to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325(d), reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M, and implementing regulations issued by the Internal Revenue Service (IRS).

(2) The TIN may be used by the government to collect and report on any delinquent amounts arising out of the Offeror(s) relationship with the Government (31 U.S.C. 7701(c) (3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the Offeror(s) TIN.]

(3) Taxpayer Identification Number (TIN).

☐ TIN:_____.

☐ TIN has been applied for.

☐ TIN is not required because:

☐ Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States;

☐ Offeror is an agency or instrumentality of a foreign government;

☐ Offeror is an agency or instrumentality of the Federal Government;

(4) Type of organization.

☐ Sole proprietorship;

☐ Partnership;

☐ Corporate entity (not tax-exempt);

☐ Corporate entity (tax-exempt);

☐ Government entity (Federal, State, or local);

☐ Foreign government;

☐ International organization per 26 CFR 1.6049-4;

☐ Other _____.

(5) Common parent.

☐ Offeror is not owned or controlled by a common parent:

☐ Name and TIN of common parent:

Name _____

TIN _____

(m) Restricted business operations in Sudan. By submission of its offer, the offeror certifies that it does not conduct any restricted business operations in Sudan.

(n) Prohibition on Contracting with Inverted Domestic Corporations.

(1) Relation to Internal Revenue Code. A foreign entity that is treated as an inverted domestic corporation for purposes of the Internal Revenue Code at 26 U.S.C. 7874 (or would be except that the inversion transactions were completed on or before March 4, 2003), is also an inverted domestic corporation for purposes of 6 U.S.C. 395 and for this solicitation provision (see FAR 9.108).

(2) Representation. By submission of its offer, the offeror represents that it is not an inverted domestic corporation and is not a subsidiary of one.

(End of Provision)

ATTACHMENT 1

PURCHASE ITEMS AND PRICE/COSTS

ITEM # 1 – Floor Scales

Furnish and install two (2) each Recessed Floor Scales. One scale shall be installed on the soiled side of the laundry and one (1) scale installed on the clean side of the new laundry facility. The recessed floor scales shall be in accordance with performance specifications on attachment 2.

Qty: 2 Unit Price\$ _____ each Total for 2 \$_____

No Trade-IN

Total Installation Costs:

\$_____

Equipment Rigging

Plumbing and Pressure Piping work

Electrical work

Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 2 – Soil Storage/Sorting Conveyor System:

Furnish and install one (1) soiled storage/sorting conveyor system. The soiled storage and sorting conveyor system shall be in accordance with performance specifications on attachment 2.

Qty: 1 system Unit Price\$ _____ each Total for 1 system \$_____

No Trade-IN

Total Installation Costs:

\$_____

Equipment Rigging

Plumbing and Pressure Piping work

Electrical work

Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 3 – Wash and Dry (Soiled side) Systems to include:

Furnish and install the following. The following equipment shall be in accordance with performance specifications on attachment 2.

a. Soiled Overhead Semi-automated Monorail Storage Conveyor

Qty: 1 system Unit Price\$ _____ each Total for 1 system \$_____

b. Continuous Wash Extract Tunnel Wash Systems:

Qty: 2 each Unit Price\$ _____ each Total for 2 each \$_____

c. Single-Stage Tunnel Washer Extractor Press with Conveyers:

Qty: 2 each Unit Price\$ _____ each Total for 2 each \$_____

d. Continuous Wash Extract Tunnel Wash System Gas Heated Drying and Conditioning Tumblers with Two (2) Dryer Take Away Conveyors:

Qty: 10 each Unit Price\$ _____ each Total for 10 each \$_____

Qty: 2 each conveyors Unit Price\$ _____ each Total for 2 each \$_____

e. Waste Managed, Automated External Lint Collection System:

Qty: 2 each Unit Price\$ _____ each Total for 2 each \$_____

NOTE: If additional external lint collection systems are required, offer will show the additional systems.

f. Staph Barrier Wall:

Qty: 1 system Unit Price\$ _____ each Total for 1 system \$_____

g. Washer Extractor 200/300 LB. (Non-Production):

Qty: 1 each Unit Price\$ _____ each Total for 1 each \$_____

h. Washer Extractor 400/500 LB. (Non-Production):

Qty: 1 each Unit Price\$ _____ each Total for 1 each \$_____

No Trade-IN

Total Installation Costs:

\$_____

Equipment Rigging

Plumbing and Pressure Piping work

Electrical work

Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 4 – Semi Automatic Cart Washer/Dryer:

Furnish and install one (1) Semi Automatic Cart Washer/Dryer. The Cart Washer/Dryer shall be in accordance with performance specifications on attachment 2.

Qty: 1 each Unit Price\$ _____ each Total for 1 each \$_____

No Trade-IN

Total Installation Costs:

\$ _____

Equipment Rigging

Plumbing and Pressure Piping work

Electrical work

Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 5 – Ward Delivery Exchange Carts

Furnish five hundred (500) Ward Delivery Exchange Carts. The Exchange carts shall be in accordance with specifications on attachment 2.

Qty: 500 each Unit Price\$ _____ each Total for 500 each \$ _____

No Trade-IN

Final Cost \$ _____

ITEM # 6 – Finishing Equipment System (clean side):

Furnish and install the following. The following equipment shall be in accordance with performance specifications on attachment 2.

a. Automated Conveyor System (clean side):

Qty: 1 system Unit Price\$ _____ each Total for 1 system \$ _____

b. Clean Side Overhead Automated Monorail Storage Conveyor System:

Qty: 1 system Unit Price\$ _____ each Total for 1 system \$ _____

c. Flatwork Ironing Systems:

Qty: 3 system Unit Price\$ _____ each Total for 3 system \$ _____

d. Small Piece Folders:

Qty: 6 each Unit Price\$ _____ each Total for 6 each \$ _____

e. Large Piece Folder:

Qty: 1 each Unit Price\$ _____ each Total for 1 each \$ _____

No Trade-IN

Total Installation Costs:

\$ _____

Equipment Rigging
 Plumbing and Pressure Piping work
 Electrical work
 Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 7 – 80/100 Pound Washer Extractors with Steam Injection:

Furnish and install three (3) each 80/100 LB washer extractors. The washers shall be in accordance with performance specifications on attachment 2.

Qty: 3 each Unit Price\$ _____ each Total for 3 each \$_____

No Trade-IN

Total Installation Costs:

\$_____

Equipment Rigging
 Plumbing and Pressure Piping work
 Electrical work
 Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 8 – 110/120 Pound (Non-Production) Gas Heated Drying and Conditioning Tumblers:

Furnish and install three (3) each 110/120 LB drying and conditioning tumblers. The dryers shall be in accordance with performance specifications on attachment 2.

Qty: 3 each Unit Price\$ _____ each Total for 3 each \$_____

No Trade-IN

Total Installation Costs:

\$_____

Equipment Rigging
 Plumbing and Pressure Piping work
 Electrical work
 Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 9 – Folding Tables:

Furnish and install six (6) each folding tables. The folding tables shall be in accordance with performance specifications on attachment 2.

Qty: 6 each Unit Price\$ _____ each Total for 6 each \$ _____

No Trade-IN

Total Installation Costs:

\$ _____

Equipment Rigging

Plumbing and Pressure Piping work

Electrical work

Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 10 – Garment Tunnel Finisher:

Furnish and install one (1) each garment tunnel finisher. The tunnel finisher shall be in accordance with performance specifications on attachment 2.

Qty: 1 each Unit Price\$ _____ each Total for 1 each \$ _____

No Trade-IN

Total Installation Costs:

\$ _____

Equipment Rigging

Plumbing and Pressure Piping work

Electrical work

Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 11 – Cart Make-up Shelving Linen Flow Rack:

Furnish and install one (1) each linen flow rack. The linen flow rack shall be in accordance with performance specifications on attachment 2.

Qty: 1 each Unit Price\$ _____ each Total for 1 each \$ _____

No Trade-IN

Total Installation Costs:

\$ _____

Equipment Rigging
Plumbing and Pressure Piping work
Electrical work
Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 12 – Central Wet/Dry Vacuum System:

Furnish and install one (1) each central vacuum system. The vacuum system shall be in accordance with performance specifications on attachment 2.

Qty: 1 each Unit Price\$ _____ each Total for 1 each \$_____

No Trade-IN

Total Installation Costs:

\$_____

Equipment Rigging
Plumbing and Pressure Piping work
Electrical work
Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 13 – Mechanical Room

Furnish and install the following. The following equipment shall be in accordance with performance specifications on attachment 2.

a. Laundry Ancillary Support Water Storage/Pumping/Recycling System:

Qty: 1 system Unit Price\$ _____ each Total for 1 system \$_____

b. Air Compressor and Air Refrigerated Dryer System

Qty: 3 each Unit Price\$ _____ each Total for 3 each \$_____

No Trade-IN

Total Installation Costs:

\$_____

Equipment Rigging
Plumbing and Pressure Piping work
Electrical work
Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 14 – Air Filtration System:

Furnish and install six (6) each air filtration systems. The filtration systems shall be in accordance with performance specifications on attachment 2.

Qty: 6 each Unit Price\$ _____ each Total for 6 each \$ _____

No Trade-IN

Total Installation Costs:

\$ _____

Equipment Rigging

Plumbing and Pressure Piping work

Electrical work

Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 15 – System Blow-Down Devices:

Furnish and install fifteen (15) each air blow down devices. The blow down devices shall be in accordance with performance specifications on attachment 2.

Qty: 15 each Unit Price\$ _____ each Total for 15 each \$ _____

No Trade-IN

Total Installation Costs:

\$ _____

Equipment Rigging

Plumbing and Pressure Piping work

Electrical work

Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 16 – Garment Exchange System (Uniform):

Furnish and install two (2) each garment exchange systems. The garment exchange systems shall be in accordance with performance specifications on attachment 2.

Qty: 2 each Unit Price\$ _____ each Total for 2 each \$ _____

No Trade-IN

Total Installation Costs:

\$ _____

Equipment Rigging
Plumbing and Pressure Piping work
Electrical work
Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 17 – Communication/Intercom System:

Furnish and install one (1) each communication/intercom system. The communication system shall be in accordance with performance specifications on attachment 2.

Qty: 1 system Unit Price\$ _____ each Total for 1 system \$_____

No Trade-IN

Total Installation Costs:

\$_____

Equipment Rigging
Plumbing and Pressure Piping work
Electrical work
Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 18 – Chemical Drum Washer

Furnish and install one (1) each chemical drum washer. The drum washer shall be in accordance with performance specifications on attachment 2.

Qty: 1 each Unit Price\$ _____ each Total for 1 each \$_____

No Trade-IN

Total Installation Costs:

\$_____

Equipment Rigging
Plumbing and Pressure Piping work
Electrical work
Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

ITEM # 19 – Wrapper and Tying Linen System:

Furnish and install one (1) wrapping and tying system. The tying system shall be in accordance with performance specifications on attachment 2.

Qty: 1 system Unit Price\$ _____ each Total for 1 system \$_____

No Trade-IN

Total Installation Costs:

\$ _____

Equipment Rigging

Plumbing and Pressure Piping work

Electrical work

Other (Identify)

(Include all material and labor necessary for the installation of equipment and any modifications necessary for its connection and proper operation, in offered price for installation)

Final Cost \$ _____

TECHNICAL/PERFORMANCE SPECIFICATIONS AND PURCHASE DISCRPTIONS

ATTACHMENT 2

Item 1 – Floor Scales:

Furnish and install two (2) each, floor scales with a maximum weight capacity of 3000 pounds, recessed within the floor. One of these scales shall be installed in the soiled area and the other scale shall be installed in the clean area off the loading docks. Each scale shall calculate pounds to pieces and include a wall mounted storage cabinet with shelves, lockable doors, digital display and color printer. A stand up desk/writing area shall also be installed.

Scales must be capable of displaying and printing to the half (1/2) pound measurements.

Color printer(s) shall print date, time of day, gross weight, tare weight, net weight and user unit, i.e., medical center or ward.

Item 2 – Soil Storage/Sorting Conveyor System:

Furnish and install 1 (system). The complete soil sorting conveyor system shall be of such material and construction, and so designed, to withstand daily wipe-down and disinfecting of all soiled textile contact surfaces without damaging the system or its components.

A. The soil sorting conveyor system shall consist of the following:

1. Cart Dump System(s): Provide a end or side loading type cart dump system(s) designed to pick-up loaded textile carts (utilized by the medical center) and dump textiles onto a soil storage conveyor. Cart dumper shall be provided with safety chains, guard rails and a illuminated (when activated) emergency stop button (colored RED) with yellow back ground and legends.
2. Incline Soil Storage Conveyor: The size of this system will be based on 30 percent of the daily wash system production which is approximately 37,800 per day. Calculations representing 500 pounds per productive employee hour will be utilized as the evaluation factor examining the design and operation of these systems. The storage conveyor shall be designed to prevent any spillage. Storage conveyor shall be equipped with an illuminated (when activated) emergency stop button (colored RED) with yellow back ground and legends located within 25 feet of work stations.

The conveyor will operate automatically and advance in increments without manual attention. The storage conveyor shall also have a manual jog button installed. Calculations for flat-belts for textile storage will be based on 7.0 pounds per cubic foot. The incline soiled storage conveyor shall be designed to receive fully loaded soiled textile bags from the cart dumper and automatically advance linen in increments. The system shall be designed to allow employees to manually jog textiles onto the incline storage conveyor which will automatically convey textiles to the transfer conveyor(s).

The incline storage conveyor shall connect the transfer conveyor and have appropriate side guards to prevent any spillage and allow for proper transfer of textiles to the transfer conveyor. Any angle necessary for the incline storage conveyor shall be such to ensure positive transfer of pieces without tumbling. The incline storage conveyor shall be designed to prevent pieces of textiles, i.e., wash cloths, towels, sheets, blankets, uniforms, mops, etc., from jamming between the incline conveyor and the transfer to the transfer conveyor.

3. Transfer Conveyor: Transfer conveyor shall connect the incline and soil sorting conveyor and have appropriate side guards to prevent spillage and allow for proper transfer of textiles to the sorting conveyor. Any angle necessary for the transfer conveyor shall be such to ensure positive transfer of pieces without work flow disruption.

A soiled bag break-up station shall be incorporated in the design of the soiled sorting system that will allow employees to empty linen bags onto the sorting conveyor. The break-up conveyor shall include a work platform, safety rail and include a steel plate and covered with a 1/4 inch slip resistant, non-corroding, rubberized with urethane coating, anti-fatigue surface with color coded safety lanes.

The transfer conveyor shall be designed to prevent pieces of textiles, i.e., wash cloths, towels, sheets, blankets, uniforms, mops, etc., from jamming between the transferring to the incline conveyor(s) and the transfer to the soil sorting conveyor. Transfer conveyor(s) shall not be utilized to calculate storage.

4. Sorting Conveyor: The sorting conveyor shall be designed to receive bulk quantities of soiled textiles from the transfer conveyor. The working height of the conveyor shall be adjustable and designed to prevent spillage. The sorting conveyor shall be equipped with illuminated (when activated) emergency stop buttons (colored RED) with yellow back ground and legends located within 25 feet of work stations.

The sorting conveyor shall include adjustable speed controls, positioned to allow for operator control without leaving the work station. The sorting conveyor shall be equipped with an automatic stopping device (photo-cell) to prevent textiles from dropping to the floor at the end of the conveyor.

A trash receptacle shall be incorporated at the end of the sorting conveyor to collect falling trash automatically from the sorting belt. At all work stations of the sorting conveyor, receptacles for sharps and trash are to be installed.

The platform for soiled sorting system shall be easily accessible by stairs and include rigid/sturdy safety handrail(s) painted yellow. The steps and platform shall be steel plate and covered with a 1/4 inch slip resistant, non-corroding, rubberized with urethane coating, anti-fatigue surface with color coded safety lanes.

A metal angle iron stop/guard shall be installed in front of the soil sorting conveyor to prevent sorting carts from hitting the sorting conveyor.

5. Soiled Sorting Weight Sling Carts: A minimum of 14 sling carts shall be provided with battery operated weigh indicator (digital readout in pounds) tolerance of +/-2 percent accuracy is required. Micro Processor Digital readouts shall be readable by the soil sorters without leaving the work station. Rechargeable battery packs are to be easily removed without tools so carts can be continually used, battery packs placed into chargers that shall be provided by the contractor. Fourteen battery packs are required along with enough chargers to charge 6 battery packs at a time.

Item 3 – Overhead Monorail Wash & Dry Soiled Side System(s) to include:

3a. Soiled Overhead Semi-Automated Monorail Storage Conveyor System

The contractor shall furnish and install new, one (1) system on the soiled side of the laundry.

SYSTEM MUST BE ENGINEERED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF TEXAS TO COORDINATE STRUCTURAL DESIGN WITH STRUCTURAL LOAD PARAMETERS DEFINED ON BUILDING CONTRACT DOCUMENTS. THE OVERHEAD CONVEYOR AREAS ARE DESIGNATED ON THE BUILDING STRUCTURAL ROOF FRAMING DRAWINGS AND DEFINE A MAXIMUM 27 LBS/SF LIVE LOAD.

1. System shall be capable of receiving soiled sling bags from weight carts and storing classified linen equal to 40 percent of the daily wash loads. Sling bags will be hoisted to the overhead storage area by employees by lift station.
2. System shall be capable of calling off stored classified linen to the Continuous Batch Washers (CBW's) for automatic loading of the CBW's. The soiled monorail system shall also be capable of sling loading the non-production washer extractors manually by employees.
3. All lift stations shall have rigid/sturdy safety guard rails installed around the lift station area to prevent employees from walking into lowered lifting rails. Safety rails shall be painted SAFETY YELLOW.
4. Monorail lift stations shall be equipped with a safety lock device to prevent the lifting rail from falling in case of power or air loss or chain/cable break.
5. All work shall be transported automatically without any assistance by employees to storage areas and wash systems from lift stations. Rail selection shall be accomplished automatically from lift stations.
6. The contractor shall furnish 150 sling bags and trolleys for the soiled storage and loading of the CBW's and non-production washer extractors.
7. All slings furnished shall be colored Blue in the soiled area of the textile care processing facility.

3b. Continuous Tunnel Wash System

Furnish and install two (2) each, Continuous Wash Extract Systems (CWES).

1. The system shall be designed for automatic sling loading directly into the CBWS and shall be equipped with total waste water heat recovery capability.
2. In a seven-hour workday, be capable of processing a minimum of 37,800 (dry weight pounds) of dry soiled textiles, uniforms, patients clothing, pajamas per day equating to 5,400 pounds per hour.
3. The work load is based on 60 % rough dry, 35 % flatwork and 5 % uniforms and patients clothing.
4. The (CWES) formulas shall be based upon the use of low temperature (120 degrees F / 48.88 degrees C) water. These formulas will take into consideration sequencing, which includes loading, washing, discharging, extraction and tumbler transfer. Systems will be evaluated on hourly production.
5. A staph barrier wall shall be built into the system to prevent cross-contamination. The CWES will include moisture barriers which preclude discharge of moisture and chemicals onto the production floor.
6. All Washing Systems either production or non-production will be exhausted to the outside atmosphere.

Ordering Data:

- a. Color touch screen controls & information systems” that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics controls are required. The systems shall include a video screen and be capable of displaying:

- (1) All wash loads through each module or chamber and water temperatures.
- (2) The formulas, temperature controls for incoming tempered and hot water and customer identity of each batch as it progresses through the systems modules or chambers, and through the extraction process.
- (3) A production record showing the number of batches run for each customer or department on each formula on a daily, weekly, monthly, quarterly, semi-annual and annual basis.
- (4) Details of all wash formulas.
- (5) A display which aids in trouble shooting and supply calibration.
- (6) A screen that displays all the requirements and times for preventive maintenance.
- (7) Remote screen located in the Textile Care Managers office that displays information from the systems console.
- (8) The color printer, fax, copier and scanner located in the Textile Care Managers office shall print hard copies of all functions and accounting data of the CWES system that include the press and dryers.
- (9) System shall be capable of programming 40 wash formulas.
- (10) Electrical characteristics - 480 volts, 3 phase, 60 cycles.
- (b) Regardless of supplier, a Class 1 - Liquid supply system will be interfaced for the dispensing of seven (7) types of chemicals followed by a fresh water flush capability.
- (c) A color camera is required at the loading chute of the CBWS for visual observation of wash loads entering the CWES. A color flat screen monitor (minimum 22 inches) shall be installed at the washer controls station so the operator can monitor all loads entering both tunnels.
- (d) Water recycling is required.
- (e) Automatic thermal overflow cool down required.
- (f) Pipe and connections are to be furnished for utilizing a liquid supply system.
- (g) Systems shall be installed level and/or have leveling devices.
- (h) Specifically designed and programmed for automatic sequencing and sling loading directly into the CBWS. The use of loading conveyors will NOT be considered.
- (i) Audible and visual alarms for defaults within the system is required.
- (j) Automatic cycle controls required.
- (k) Systems shall be designed utilizing no more than .75 gallon of water per pound processed regardless of wash programs and classifications.
- (l) Systems shall be designed with an exhaust system to eliminate ALL steam and condensation from escaping from the loading chute and main press area.
- (m) All emergency stop buttons shall be illuminating (when activated) (colored RED) with yellow back ground and legends.. The CBW shall also be equipped with a normal start colored green and stop button colored red.
- (n) An hour meter shall be installed on the CBW to show actual run time of the equipment.
- (o) CONFINED SPACE standards apply and drum MUST have a minimum of (4) access hatch / doors for egress into the drum from the outside and allowing light and air into the inner drum and must be a minimum size of 15” x 15”.

3c. Single- Stage Tunnel Washer Extractor Press with Conveyors:

Furnish and install two (2 ea) – Single stage CBW extractor presses. The extraction CBW washer presses must be capable of communication between the CBW's and shall be capable of meeting the following requirements:

- (1) Extractor press shall accommodate offered batch size.
- (2) Extractor press shall have large capacity basket for oversized loads (up to 15%).
- (3) Electrical characteristics - 480 volts, 3 phase, 60 cycles.
- (4) Extractor press shall have fully programmable extraction pressure with a minimum 40 bar (580 P.S.I.).
- (5) The extractor press controller shall be capable of being programmed for 99 extraction programs and be industrial off the shelf microprocessor.
- (6) The extractor press shall have touch screen controls with 3D graphics.
- (7) Automatic hydraulic cooling system.
- (8) Full high-grade stainless steel construction.
- (9) All emergency stop buttons shall be illuminating (when activated) emergency stop button (colored RED) with yellow back ground and legends.. The extractor press shall also be equipped with a normal start colored green and stop button colored red.
- (10) Safety micro switches shall be installed on all doors of the extractor press so that when a door is opened, the equipment shuts down.
- (11) Large volume external water recovery tanks.
- (12) Positive belt transfer of cake.
- (13) Automatic program to monitor water capacity in the membrane and will have no manual assistance required.
- (14) Coated ram plate – corrosion resistant finish.
- (15) Flexible and simple to use controls.
- (16) An hour meter shall be installed on the press to show actual run time of the equipment.

Note to Offeror(s): Other offered extractor presses will be considered

Test Piece Testing (wash systems): Upon completion of installation, test piece testing for whiteness retention, tensile strength loss and chlorine retention shall be conducted and run by the contractor at full production speed, using all categories of textiles. The test shall be witnessed, verified and monitored by the designated COTR and the Textile Care Manager.

In accordance with VA and Association of Linen Management (ALM) criteria, eight out of 10 test piece testing results from wash systems shall be within the good and excellent range for whiteness retention and tensile strength loss. Tests will be performed in the presents of the Textile Care Manager or his/her designee. The Textile Care Manager or his/her designee will record the speed/timing of transfers and monitor all testing. Chlorine retention shall be in the slight to none category for eight out of ten test piece results.

The cost for test pieces and test piece service shall be borne by the contractor.

A certificate showing the results of the test shall be presented to the VA Quality Assurance Inspector at the initial start of final inspection. Failure to provide this certificate will constitute rejection of the wash system.

Wash System Controls: Furnish and install wash system controls on each individual machine and as part of one central control. System shall include a color laser printer and shall be located within the Textile Care Managers office. Wash system controls will include all available options offered.

The central control system shall be located in the office of the Textile Care Manager. All controls shall be solid state of the matrix variety.

The central control system shall be capable of monitoring and managing all aspects of wash system productivity, i.e., chemical formulas and water consumption.

The system shall allow for both visual and actual print-out of data. A color printer with scanner, copier and fax shall also be provided to print and send data. The system shall be programmed by keyboard and monitor energy usage, utility availability and usage, average load and unload time and actual productivity, i.e., pounds produced.

The system shall assist management concerning water supply and potential chemical imbalance.

The system shall be capable of programming 40 formulas for wash systems offered.

Chemical measures shall be capable of converting to metric systems.

3d. Gas Heated Drying & Conditioning Tumblers:

Furnish and install ten (10) gas heated drying and conditioning tumblers for the Continuous wash extract systems (Five for each tunnel washing system).

In addition to the ten (10) CWES dryers, furnish and install one (1) 400 pound dryer for the non-production washer extractors.

The contractor providing the dryers is to provide air makeup and exhaust duct system on all gas dryers. Ducts shall be sized, installed, and supported in accordance with the equipment manufacturer's requirements.

The dryers shall automatically receive linen from the tunnel washer press to a dryer loading shuttle and automatically load the dryers and automatically discharge to a dryer take away conveyor after completion of the drying cycle. The dryer shuttle shall have two (2) beacon rotary LED lights (colored Amber), one (1) on each side of the shuttle that are activated each time the shuttle moves/operates. The dryer shuttle shall also have an audible alarm to indicate when shuttle is moving.

NOTE: Alternate means of loading all dryers are encouraged and will be considered and evaluated.

An illuminating (when activated) emergency stop button with yellow back ground and legends shall be installed on the dryer shuttle.

The press conveyor area and shuttle area must have a permanently mounted safety fencing installed with a lockable fence door. The safety door must have safety micro switches (or equal) installed so that when the door is opened, the operation of the dryer shuttle stops and will not operate until the door is closed. All safety fencing shall be installed on solid floor. No safety fencing shall be installed on any trench or floor covers.

The safety fencing shall have warning signage installed warning of the danger of entering the area. All signage shall be engraved on laminated plastic plates and attached to the fencing and door.

Dryers for CWES and Non-production Washers (as Applicable):

1. The dryers shall be designed for automatic loading by means of a conveyor from the CWES to a dryer shuttle.
2. In a seven-hour workday, be capable of drying and conditioning a minimum of 25,550 (dry weight pounds).
3. The work load is based on 60 % rough dry, 35 % flatwork and 5 % uniforms and patients clothing.
4. Dryers shall discharge to a dryer takeaway conveyor automatically. The dryer take away conveyor shall have a beacon rotary LED light (colored Amber) identifying end of drying cycle for the hearing impaired.
5. Dryers shall be capable of being shuttle loaded from a dryer shuttle system. The types of textiles processed are normal hospital linen, sheets, pillowcases, bath blankets, thermal blankets, towels, wash cloths, patients clothing, uniforms and surgical linens.
6. Dryers shall be a double door; pass through type dryer and microprocessor controlled.
7. Commercial preservation, packaging and packing against damage required.
8. Electrical characteristics - 480 volts, 3 phase, 60 cycles.
9. Dryers shall have a color touch screen controls & information systems" that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics. Dryer shall be capable of programming each category of textiles. Each program shall be listed on a printed card or paper showing the items dried. Example – Program 1 – Micro Mops – 130 degrees – Dry time 35 min – cool down 8 minutes on a laminated card or paper and attached to the dryer for the employees use.
10. Tumblers shall be provided with removable cylinder panels and provided with protective non-stick cylinder coating providing 3,000-production hour guarantee.
11. Reversing and non-reversing required.
12. Tumbler shall be gas heated.
13. A light to designate that tumbler is in operation is required.
14. Dryer shall be equipped with heavy duty drive and support wheels.
15. Dryer shall be equipped with a low fire only operation control.

16. Dryer shall be equipped with automatic pilot ignition; main burner and pilot gas pressure regulator; high temperature safety switch; and modular burner duct system.

17. External lint collection is required. All ductwork shall be galvanized steel and new to the outside of the building.

18. Blow-down device(s), 50 feet in length on retractable reels will be installed within the dryer locations and shall be capable of reaching around all dryers. This device(s) shall include:

a. A gauged air pressure regulator, with quick disconnect, capable of regulating air pressure from 0 PSI to 30 PSI.

b. Minimum 50 foot length of heavy duty, reinforced non-kink air hose on an automatic retractable reel.

c. Trigger operated air nozzle with any necessary extensions for reaching hard to reach areas.

d. Locations of the blow down device(s) shall be depicted on drawings.

19. Tumbler's air intake and exhaust air shall be derived and directed to and from the outside of the laundry building atmosphere.

20. Drying and conditioning tumblers shall have a beacon rotary LED light (colored Amber) identifying end of drying cycle for the hearing impaired. Dryer shall also have an audible alarm to indicate when drying cycle has ended.

21. Dryer shall be equipped with excess temperature sprinkler protection.

22. A flow alarm valve shall be installed in the fire suppression system and connected to a rotary beacon LED light (colored RED) and audible alarm, to be located on the dryer, to indicate if a fire exists in the dryer. The flow alarm shall also be connected to the fire alarm system within the building to alert authorities of a fire in the laundry.

23. Normal stop push buttons and emergency stop buttons shall be colored Red. An illuminating (when activated) emergency stop button shall be installed on the drying conditioning tumblers.

24. Drying conditioning tumblers shall be equipped with lockout/tag out for servicing and maintenance of equipment. Tags and locks shall be provided by the contractor.

25. All new air intake and exhaust ductwork roof penetrations shall be sealed and curbing/flashing must be used to seal penetration. The contractor installing the equipment that requires penetration through the roof shall be responsible for ensuring the roof penetration is sealed. The sealing of the penetration shall be performed by a certified contractor of the roofing manufacturer to maintain the roof warranty.

26. Air intake and exhaust ductwork shall have large easily accessible hinged access panels installed at each bend for easy clean-out and manual fire fighting. Air intake and exhaust air ductwork shall be insulated and wrapped with colored PVC plastic covering with identification and flow markings.

27. All ductwork located outside the building shall be weatherproofed and sealed water-tight to protect from damage from the environment. All ductwork located outside shall be identified and have directional flow markings installed.

28. All dryer(s) exhaust ductwork shall be insulated and from the connection point of the dryer(s) and up three (3) feet shall be wrapped with white colored aluminum and transition to PVC plastic wrap, identified and have directional flow markings installed.

29. Dryers shall be designed/equipped to prevent placement of objects under the dryer.

30. Dryers shall be equipped with excess temperature cutout switches or relays and operating temperature controls.

31. Ductwork configuration shall meet the manufacturers recommended size and be cylindrical in design.

32. Tumblers shall have independent electronic ignition.

33. Provide 4-Plex GFI receptacle for each equipment location for mechanics use.

34. An hour gauge shall be installed on the equipment that will show actual hours of run time on the dryer(s).

3e. Waste Managed, Automated External Lint Collection System:

Furnish and install minimum one (1) each lint collection system for each bank of dryers. Also, furnish and install one (1) each lint collector for the 400 pound dryer for the non-production washers. All lint collectors shall recover a minimum of 95 percent of lint discharged.

The lint collector(s) shall be constructed of rust resistant, weatherproof, heavy gauge stainless steel or fire-retardant compound. The outside of the lint collector shall be equipped for suspension indoors or outdoors. The lint collection area shall be accessible for service and internally accessible for service and replacement of parts through an inspection door.

The lint screen shall be constructed of fire resistant material. This screen shall be capable of being easily removed, machine washed, and reinstalled with minimum effort.

The lint collector control shall be 120 vac. The control shall be manufactured with components that are user serviceable, and parts shall be easily available through local sources.

The lint collector shall include a fire control consisting of a 1 inch solenoid valve, a visible alarm light, audible alarm, a fire sensor and rotary LED rotary beacon light. The control shall have an automatic reset feature.

Each collector shall have a minimum of two spray mechanisms, 1/2 inch diameter each, to be utilized for fire control.

A dedicated cold water pipe shall be connected to the lint collector fire suppression system. This dedicated cold water line shall be insulated, covered with red PVC Plastic and identified as lint collector fire suppression.

A flow alarm shall be installed in the fire suppression system and connected to signal controls to the building fire alarm panel. If signal controls are activated, a LED rotary beacon light shall continually rotate, allowing constant observations.

External lint collectors shall be installed outside of the textile care processing building. Lint collection shall be accomplished in the production area for any lint collection system offered.

Furnish and install one (1) each air line(s) with quick disconnect for the mechanics use at each lint collector location.

Furnish and install one (1) each water hose bib for the mechanics use at each lint collector location.

All air intake and exhaust ductwork located outside shall have additional support and tie downs to secure the ductwork for high winds.

3f. Staph Barrier Wall:

As part of the offered design, the contractor is responsible for design and installation of the staph barrier wall. EXTENTS OF WALL LOCATION ARE DEFINED ON BUILDING CONTRACT DRAWINGS. SUCCESSFUL CONTRACTOR SHALL COORDINATE THESE WALLS LOCATION AND EXTENTS WITH WHAT IS SHOWN ON THE BUILDING CONTRACT DOCUMENTS

The wall up to the bottom of the roof trusses or bottom of any other supporting system, supported by structural glazed steel with rust resistant finish, shall be constructed of a Type 1, glass, laminated.

Fabricate 5/16 inch thick units of two panes of 1/8 inch thick glass laminated together with a .06 inch thick vinyl interlay.

Staph barrier wall materials above the bottom of the roof trusses shall be constructed of water and fire resistant dry wall (minimum 5/8 inch thick), and painted.

An automatic, electronic sliding glass door with overhead sensors on the soil and clean sides, will be a minimum of forty (40) inches wide in the staph barrier wall. The sliding glass door shall be fabricated of the same material as the glass portion of the wall and have a protective guard installed to prevent carts from damaging or breaking glass.

Doors shall be provided with seals to prevent cross-contamination between the soiled and clean sides. A manual over-ride to open the doors shall be provided in case of power or sensor failure.

The bottom portion of the staph barrier wall shall be solid colored panels with a guard installed to protect the wall from damage from laundry carts.

Negative atmosphere shall be maintained in the soiled area of the textile care processing system. A complete air seal shall be established between the soiled and clean areas of the textile care processing system.

Testing and balancing of the existing new HVAC system is required and shall be included as part of the design and installation of the staph barrier wall to ensure a constant negative air pressure of the soiled side of the staph barrier wall.

3g. Washer Extractor 200/300 Pound (Non-Production):

Furnish and install new, one (1), 200/300 LB. pass through washer extractor with total waste water heat recovery capability. The washer-extractor shall be of the shell and cylinder type. The size (capacity) shall be based on 5.7 pounds of soiled textiles per cubic foot of cylinder volume (GROSS). The Non-production washer shall be designed on the soiled side production floor of the textile care processing facility. A staph barrier wall shall be built around the washer and into the system to prevent cross-contamination.

NOTE: Alternate offers for auto loading the 200 pound washer extractor is encouraged and will be considered.

Above the washer extractor, install an I-beam or similar device, with a minimum ½ Ton hoist for the removal and replacement of motors for the maintenance of the washer extractor.

Ordering Data (washer-extractors):

- (1) The washer-extractor covered by this document shall be of the shell and cylinder type. The sizes (capacities) shall be based on 5.7 pounds of soiled textiles per cubic foot of cylinder volume (GROSS).
- (2) The wash system is to be designed for manual sling loading and unloading with a minimum amount of effort from employees.
- (3) Wash system shall be capable of being sling loaded without any spillage. Loading chutes, if required, shall not be portable and must be permanently attached to the wash system.
- (4) Multiple compartments, pass-through model.
- (5) Contractor shall interface existing Class I - Liquid Supply System with installed equipment for the dispensing of seven (7) types of chemicals followed by a fresh water flush capability. Pipe and connections shall be furnished for utilizing the liquid supply system. A chemical manifold shall be installed for the dispensing all chemicals.
- (6) Water level sight glass is required.
- (7) Anti-vibration protection is required.
- (8) Divided cylinder machine shall be provided with automatic jog/inching or positioning in addition to manual inching provisions.
- (9) Unit shall have audible and visual alarms at end of cycle for loading and unloading on both the soil side and clean side. The washer extractors shall have a beacon rotary LED light (colored AMBER) on both the soil side and clean side identifying end of wash cycle for the hearing impaired. Washers shall also have an audible alarm to indicate when wash cycle has ended.
- (10) Washers shall have a color touch screen controls & information systems that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics and automatic cycle control type. Balancing of load prior to extraction is required.
- (11) Machine shall be equipped with an illuminated emergency stop button (when activated). Normal stop and emergency stop buttons shall be colored RED with yellow back ground and legend.
- (12) An easily accessible titration valve shall be installed on the washer for testing/sampling of wash water.
- (13) Washer-extractor shall be vented/exhausted to the outside atmosphere. Vent hose shall be a molded flexible hose to allow for proper venting of the washer.
- (14) Unit shall have thermostatically controlled automatic steam injection.
- (15) Furnish and install a new 480 volt power disconnect box for the new dryers to replace the old damaged boxes. Install a red warning indicator and a lock-on device on the handle of the branch circuit breaker for the power supply circuit for dryer to within six (6) feet of the floor. Electrical Characteristics – 480 Volts – 3 phase – 60 hzt.
- (16) Provide 4-Plex GFI receptacle and an air line with quick disconnect at each equipment location for mechanics use.
- (17) Washer extractor shall be color touch screen controlled and capable of being programmed for wash loads.
- (18) An hour gauge shall be installed on the equipment that will show actual hours of run time on the washer extractor.
- (19) Water recycling is required.
- (20) A hose bib shall be installed between the washer extractors and connected to a retractable hose that will reach around the washers for cleaning the trenches and areas around the washers.
- (21) Non-production washer shall be connected to the central washer control system. The central control system shall be capable of monitoring and managing all aspects of wash system productivity, i.e., chemical formulas and water consumption.
- (22) If safety/maintenance doors are provided on the washer extractor, safety micro switches shall be installed on the doors to shut down the washer if opened.

B. Wash System Controls: Furnish and install wash system controls on each individual machine and as part of one central control. System shall include a color laser printer and shall be located within the Textile Care Managers office. Wash system controls will include all available options offered.

The central control system shall be located in the office of the Textile Care Manager. All controls shall be solid state of the matrix variety.

The central control system shall be capable of monitoring and managing all aspects of wash system productivity, i.e., chemical formulas and water consumption.

The system shall allow for both visual and actual print-out of data. A color printer, scanner, copier and fax shall also be provided to print and send data. The system shall be programmed by keyboard and monitor energy usage, utility availability and usage, average load and unload time and actual productivity, i.e., pounds produced.

The system shall assist management concerning water supply and potential chemical imbalance.

The system shall be capable of programming 40 formulas for wash systems offered.

Chemical measures shall be capable of converting to metric systems.

3 h. Washer Extractor 400/500 Pound (Non-Production):

Furnish and install new, one (1), 400/500 LB. pass through washer extractor with total waste water heat recovery capability. The washer-extractor shall be of the shell and cylinder type. The size (capacity) shall be based on 5.7 pounds of soiled textiles per cubic foot of cylinder volume (GROSS). The Non-production washer shall be designed on the soiled side production floor of the textile care processing facility. A staph barrier wall shall be built around the washer and into the system to prevent cross-contamination.

NOTE: Alternate offers for auto loading the 400/500 pound washer extractor is encouraged and will be considered. Above the washer extractor, install an I-beam or similar device, with a minimum ½ Ton hoist for the removal and replacement of motors for the maintenance of the washer extractor.

a. Ordering Data (washer-extractors):

- (1) The washer-extractors covered by this document shall be of the shell and cylinder type. The sizes (capacities) shall be based on 5.7 pounds of soiled textiles per cubic foot of cylinder volume (GROSS).
- (2) The wash system is to be designed for manual sling loading and unloading with a minimum amount of effort from employees.
- (3) Wash systems shall be capable of being sling loaded without any spillage. Loading chutes, if required, shall not be portable and must be permanently attached to the wash system.
- (4) Multiple compartments, pass-through model.
- (5) Contractor shall interface existing Class I - Liquid Supply System with installed equipment for the dispensing of seven (7) types of chemicals followed by a fresh water flush capability. Pipe and connections shall be furnished for utilizing the liquid supply system.
- (6) Water level sight glass is required.
- (7) Anti-vibration protection is required.
- (8) Divided cylinder machine shall be provided with automatic jog/inching or positioning in addition to manual inching provisions.
- (9) Unit shall have audible and visual alarms at end of cycle for loading and unloading on both the soil side and clean side. The washer extractors shall have a LED beacon rotary light (colored Amber) on both the soil side and clean side identifying end of wash cycle for the hearing impaired. Washers shall also have an audible alarm to indicate when wash cycle has ended.
- (10) Washers shall have a color touch screen controls & information systems" that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics and automatic cycle control type. Balancing of load prior to extraction is required.
- (11) Machine shall be equipped with an illuminated emergency stop button (when activated). Normal stop and emergency stop buttons shall be colored RED with yellow back ground and legend..
- (12) An easily accessible titration valve shall be installed on the washer for testing/sampling of wash water.
- (13) Washer-extractor shall be vented/exhausted to the outside atmosphere. Vent hose shall be a molded flexible hose to allow for proper venting of the washer.
- (14) Unit shall have thermostatically controlled automatic steam injection.
- (15) Electrical characteristics - 480 volts, 3 phase, 60 cycles.
- (16) Provide 4-Plex receptacle and an air line with quick disconnect at each equipment location for mechanics use.
- (17) Washer extractors shall be micro processor controlled and capable of being programmed for wash loads.
- (18) An hour gauge shall be installed on the equipment that will show actual hours of run time on the washer extractor.
- (19) Water recycling is required.
- (20) A hose bib shall be installed between the washer extractors and connected to a retractable hose that will reach around the washers for cleaning the trenches and areas around the washers.

(21) Non-production washer shall be connected to the central washer control system. The central control system shall be capable of monitoring and managing all aspects of wash system productivity, i.e., chemical formulas and water consumption.

(22) If safety/maintenance doors are provided on the washer extractor, safety switches shall be installed to shut down the washer if opened.

b. Wash System Controls: Furnish and install wash system controls on each individual machine and as part of one central control. System shall include a color laser printer and shall be located within the Textile Care Managers office. Wash system controls will include all available options offered.

The central control system shall be located in the office of the Textile Care Manager. All controls shall be solid state of the matrix variety.

The central control system shall be capable of monitoring and managing all aspects of wash system productivity, i.e., chemical formulas and water consumption. The system shall allow for both visual and actual print-out of data. A color laser printer shall also be provided to print data. The system shall be programmed by keyboard and monitor energy usage, utility availability and usage, average load and unload time and actual productivity, i.e., pounds produced.

The system shall assist management concerning water supply and potential chemical imbalance.

The system shall be capable of programming 40 formulas for wash systems offered.

Chemical measures shall be capable of converting to metric systems.

Item 4. SEMI AUTOMATIC CART WASHER/DRYER WITH REMOTE TRUCK WASHING STATION:

Furnish and install one (1) each, semi automatic linen cart washer/dryer system with the following:

4A. Cart Washer/Dryer System

1. The cart washer/dryer shall be engineered to provide a clean sanitary wash and automatic drying for modern plastic and fiber glass laundry/linen carts that could be open top shelf and/or solid top type. The cart washer will be manually fed on the loading side and automatically ejected to the production floor on the clean side upon completion of washing cycle.

2. The cart washing system shall be color touch screen controls & information systems” that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics, with a minimum capacity of washing and blow-drying 20 carts per hour with minimal water remaining inside the carts.

3. The unit shall be properly sealed to ensure a negative air pressure on the soil side and a positive air pressure on the clean side of the staph barrier wall.

4. The wastewater from the unit shall discharge into the sewer through the soil side of the textile care processing facility.

5. Cart washer/dryer cabinet shall be constructed of double wall, reinforced high impact material.

6. All component parts shall be made of corrosion-resistant material.

7. Interior and exterior surfaces of the cart washer/dryer cabinet and power storage unit shall be resistant to steam, acids, bleaches, starches, sours, alkalis, and germicides.

8. The cabinet of the cart washer/dryer shall contain all high pressure water jets.

9. Service light(s) shall illuminate the interior during the wash/dry cycles.

10. The base of the cabinet shall be a single piece with an interior molded sump constructed of high impact, reinforced material, fitted with a removable sump grate. A drain from the self-contained sump shall be included.

11. Unit shall be equipped with two pass-through doors, approximately 81 inches high x 42 inches wide, which automatically open and close alternately to maintain a physical separation concept.
12. The doors shall be constructed of double wall, reinforced high impact material and equipped with water tight high impact rectangular windows.
13. Unit shall be designed with safety lock disconnect to prevent activation of doors with personnel inside.
14. The unit shall consist of all electrical controls, pumps, motors, valves and automatic discharge.
15. The unit shall house germicidal detergent, rinse agent and water supply tanks.
16. Sight glasses or see through chemical tanks shall be installed to show the amount of germicidal detergent and rinse agent in the housing units.
17. All component parts shall be easily accessible through access covers that completely enclose the unit.
18. A wash start, stop, emergency stop (illuminating type when activated) and recycle buttons or touch screen icons shall be provided on the control panel on the soil side. An illuminating (when activated) emergency stop button will also be installed on the clean side and soiled side of the unit. All stop and emergency stop buttons shall be colored red. All other buttons shall be of the manufactures standard color and be in accordance with NFPA 79.
19. Two (2) indicator lights or touch screen icons shall also be installed on the control panel. One (1) light designated to show when germicidal detergent is being pumped into the cart washer/dryer and one (1) designated to show when the rinse agent is being pumped.
20. Unit shall be equipped with a time programmable control system which will permit operation of the system in a standard mode for washing bin-type carts inside and outside. A second mode shall be available to provide activation of pressure-jet spray-booms for the automatic wash/dry cycle to wash solid-shelf-type-cart.
21. The washer shall have the ability to remove heavy soil from the interior of carts with solid panels and use a minimum amount of water per cart.
22. The system shall include a remote truck washing system equipped with a hundred (100) ft length of high temperature hose designed to withstand a minimum of 600 PSI high-pressure. The hose shall be connected to a spray gun, trigger operated, with insulated grip handles on a retractable hose reel. The truck washing system shall be located on the soiled dock side of the laundry.
23. The electrical requirements for the cart washer are 480 Volts – 3 phase – 60 htz..
24. A cycle count shall be equipped to record actual run cycles of the cart washer for preventive maintenance and scheduled maintenance.
25. Cart Washer shall have a LED beacon rotary light (colored AMBER) installed on the clean side identifying end of drying cycle for the hearing impaired. The rotary beacon light shall automatically shut off when exit door closes. Cart washer shall also have an audible alarm to indicate when drying cycle has ended.
26. Cart washer shall have a low water alarm installed within the system.
27. An hour meter shall be installed on the cart washer that will show actual hours of run time of the cart washer.
28. A four (4) foot wide by twelve (12) foot long, 1 ½ inch deep concrete section shall be cut out of the floor and a 1 ½ inch deep fiberglass grate shall be installed on the unloading side of the cart washer to capture residual water from the washed carts when exiting the cart washer. A drain shall also be installed to allow residual water to drain from the section.

29. New unit shall be flush mounted with existing floor and any modification to the pit will be the contractor(s) responsibility.

4B. Automatic Cycle Sequence of the Cart Washer/Dryer:

1. Automatic programmed opening and closing of enter and exit doors.
2. Time selectable high pressure wash - clean hot water (150 degrees F minimum and 180 degrees F maximum) and germicidal detergent against the cart, inside and outside.
3. Time selectable high pressure rinse - clean hot water (150 degrees F minimum and 180 degrees F maximum) with a rinse agent and germicidal detergent.
4. Time selectable drain - drain to allow excess water to drain from cart and unit.
5. Time selectable dry - drying cycle for water removal by forced air blower system. Air is to be exhausted to the outside atmosphere, through the roof, by means of exhaust duct work.
6. Ultra Violet (UV) lighting in wash chamber to eliminate bacteria during cycle.

C. Safety Features (Wash Design):

1. Wash/dry cycle cannot be started with doors open.
2. The cart washer/dryer shall be designed with a safety lock disconnect to prevent activation of doors with personnel inside.
3. Opening of doors shall immediately stop unit.
4. Two (2) illuminating emergency stop buttons are required. One on the soil side of the unit and one on the clean side.
5. Unit must be recycled to restart.
6. Windows on doors shall have Ultra Violet (UV) coating to protect workers from light exposure.
7. Low Water Shut-Off Sensor

Item 5 – Ward Delivery Exchange Carts:

Furnish 500 each ward delivery exchange carts with pneumatic wheels, shelve covers and 25 uniform hangers are required.

- a. Carts shall be the following colors:

250 each – Blue
125 each – Tan
125 each – Green

- b. Carts must be compatible and able to be washed in the cart washer being offered in Item number 4
- c. Carts shall be constructed of material that meets fire codes and compatible with existing operations at the VA facility.
- d. All carts shall be factory numbered from 1 to 500.

Item 6- Finishing Equipment System (Clean-side) to include:

6a. Automated Conveyor System (Clean-side)

Furnish and install one (1) system. The system offered shall be capable of receiving clean textiles automatically from ironers, blanket folders, small piece folders etc; and separately conveying the textiles to all finishing areas and cart assembly areas without manual attention. All conveyors shall be equipped with illuminating when activated emergency stop buttons (colored RED) located within 25 feet of each work station.
A classified conveyor shall transport work by conveyor to finishing areas and then to cart assembly locations located on the receipt side of the cart make-up shelving.
Power turn type conveyors shall be utilized for 90 degree turns.

6b. Clean-side Overhead Automated Monorail Storage Conveyor System

The contractor shall furnish and install new, one (1) system on the clean side of the laundry.
SYSTEM MUST BE ENGINEERED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF TEXAS TO COORDINATE STRUCTURAL DESIGN WITH STRUCTURAL LOAD PARAMETERS DEFINED ON BUILDING CONTRACT DOCUMENTS. THE OVERHEAD CONVEYOR AREAS ARE DESIGNATED ON THE BUILDING STRUCTURAL ROOF FRAMING DRAWINGS AND DEFINE A MAXIMUM 27 LBS/SF LIVE LOAD.

1. System shall be capable of receiving clean sling bags from sling carts and storing classified linen equal to 40 percent of the daily wash loads. Sling bags will be hoisted to the overhead storage area by employees by lift station.
2. System shall be capable of calling off stored classified linen to the selected finishing areas.
3. All lift stations shall have rigid/sturdy safety guard rails installed around the lift station area to prevent employees from walking into lowered lifting rails. Safety rails shall be painted SAFETY YELLOW.
Monorail lift stations shall be equipped with a safety lock device to prevent the lifting rail from falling in case of power or air loss or chain/cable break.
4. All work shall be transported automatically without any assistance by employees to storage areas and wash systems from lift stations. Rail selection shall be accomplished automatically from lift stations.
5. The contractor shall furnish 300 sling bags for the clean side storage.
6. Loading carts for slings shall be furnished. The loading carts shall be four-wheeled carts, with two stationary casters and two freewheeling casters. Carts shall be made of rust resistant material with four sides enclosed.
7. All slings furnished shall be colored Blue in the clean side area of the textile care processing facility.

6c. Flatwork Ironing Systems

Furnish and install three (3) each, color touch screen controls & information systems” that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics controlled flatwork ironing systems capable of adjusting the speeds of the spreader-feeding machine, ironer, and folder-cross folder machine from one location. The flatwork ironing system shall be capable of holding and feeding flatwork until folded and stacked and shall consist of:

- A. Three (3) each, clip or clipless, automatic combination spreader-feeding machines that is capable of feeding large and small pieces through the feeding device into the flatwork ironer and the combination folder-cross folder/small piece stacker. Each station shall be equipped with counters. Spreader-feeding machine shall be capable of meeting ironer production requirements of 1080 sheets per hour, 900 pillowcases per hour, 900 (36 inches X 36 inches) double thickness cotton surgical wraps per hour, 900 (24 inches X 24 inches) double thickness cotton surgical wraps per hour.
- B. Three (3) each, steam heated flatwork ironer with canopy with power exhaust through roof. Ventilating canopy that conforms to the manufacturer's standard method of exhausting heat from the rolls will be considered.
- C. Three (3) each, four-lane combination folder-cross folder, four-lane small piece folding and sheet stacker with conveyor shall automatically discharge to textile take-away conveyor and transport linen to the new cart make-up area. Quality grading controls are required.
- D. Three (3) each, sheet pickers with conveyor
- E. All folding machines shall have counters and textiles shall be transported by conveyor to the cart make-up area automatically. Quality grading controls are required.

F. Furnish and install two (2) each (per system), 50 foot retractable blow-down devices (one at each end of the ironing systems) capable of reaching around all production equipment on each ironing system. Blow-down devices shall include gauged air pressure regulators capable of regulating air pressure from 0 psi to 30 psi.

G. Two (2) each, 360 degree sphere mirrors shall allow visual observation of feeder, ironer, folder and stacker operation for each ironing system.

Ordering Data (Medium Production Combination Spreader Feeding Machine):

Furnish and install 3 (ea) – clip or clipless spreader feeding machines. Spreader feeder shall be capable of meeting ironer production requirements.

NOTE: Alternative offers of other types of spreader feeders will be considered that are equal to or that will benefit the government.

1. Combination spreader feeding machine shall be capable of producing 1080 sheets per hour, 900 pillowcases per hour, 900 (36 inches X 36 inches) double thickness cotton surgical wraps per hour, 900 (24 inches X 24 inches) double thickness cotton surgical wraps per hour.

(2) Automatic combination spreader feeding machine shall be capable of feeding large pieces through the feeding device into the flatwork ironer.

(3) Electrical characteristics - 480 volts, 3 phase, 60 cycles.

(4) Spreader feeding machine shall be installed, leveled and have a leveling device installed on the machine.

(5) Spreader-feeding machine shall be equipped with four (4) lockable casters.

(6) Spreader feeding machine shall have a color touch screen controls & information systems” that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics and have an adjustable speed control installed that is capable of adjusting and synchronizing the speeds of the spreader feeding machine, flatwork ironer, and folder cross folder and stacker from one location.

(7) Each loading station shall be equipped with a counter to determine the number of sheets being processed.

(8) The machine shall be provided with quality grading controls mounted at each station and shall operate in conjunction with grading controls provided with the folder-cross folder. The quality grading controls will be for tears and stains.

(9) The spreader feeders shall include a built in vacuum system for large pieces.

(10) An illuminating (when activated) emergency stop button (colored RED) inter-locked with the entire ironing system and when activated shall render the entire ironing system inoperable. The spreader feeder machine shall also be equipped with a normal stop button colored Red. All operational and functional buttons/switches shall be labeled as to the function of the button or switch. All emergency stop buttons shall have yellow backgrounds with legends.

(11) Safety micro switches shall be installed on all doors of the spreader feeding machine so that when a door is opened, the machine shuts down.

(12) The spreader feeder machine shall be programmed with a waxing program that will automatically adjust the speeds of the ironing system and shut off the vacuum of the ironer during the waxing program.

(13) An hour gauge shall be installed on the equipment that will show actual hours of run time of the spreader feeder.

(14) For allowing visual observation of the mechanical systems, install a minimum of 3/8 inches in thickness scratch and shatter-proof, clear (for the equipment life expectancy), Lucite side panels on both the right and left sides of the spreader feeder machine in lieu of metal side panels.

(15) Panels shall be mounted flush with the sides of the system.

- (16) Panels shall be protected with a guard around the center to prevent carts or other devices from damaging the panels. Panels shall be equipped with fasteners/locks to secure them to the system.
- (17) Spreader feeder machine shall be equipped with red, green and yellow production status indicator lights.
- (18) The spreader feeder shall include a pneumatically controlled swing away or retractable discharge conveyor that allows for access to the feed table of the ironer without moving the feeder for feeding small pieces.
- (19) The spreader feeder machine shall include one Green colored feed belt located on the center of each four station feeding lanes for feeding small pieces.
- (20) The spreader feeder machine shall include one Blue colored feed belt located on the center of each two feeding lanes for feeding larger surgical items.

Ordering Data (Medium Production for Flatwork Ironer):

Furnish and install 3 (ea), color touch screen controls & information systems” that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics, steam heated flatwork ironing systems. The flatwork ironer shall have a color touch screen controls & information systems” that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics. The flatwork ironing systems shall consist of:

1. Ironer, Flatwork, 2 or 3 Large Roll, Commercial (Apron-less) steam heated flatwork ironer with canopy and power exhaust through roof. Exhausting ventilating canopy that conforms to the manufacturer's standard method of exhausting heat from the rolls will be considered. All exhaust duct work shall have fire access/cleanout doors installed. All exhaust duct work shall be new from the ironer through the roof.
2. Operating Steam Pressure at 120 PSI, Production - 1080 sheets per hour, 900 pillowcases per hour, 900 (36 inches X 36 inches) double thickness cotton surgical wraps per hour, 900 (24 inches X 24 inches) double thickness cotton surgical wraps per hour.
3. Condensate Trap with Valve & by-pass required.
4. Install steam inlet pressure and temperature gauges. Steam pressure and temperature gauge shall be installed separately on the steam inlet line prior to entering the ironer.
5. Electrical characteristics - 480 volts, 3 phase, 60 cycles.
6. Ironers shall be installed level.
7. Manufacturer's standard padding and/or covers shall be used on chest-type ironer.
8. Roll guards (colored RED) required.
9. Electrical reversing of drives required.
10. Underside of chest shall be insulated.
11. Motors shall be protected to prevent lint from entering motors.
12. Safety micro switches shall be installed on all doors of the ironer so that when a door is opened, the machine shuts down.
13. The ironer shall have an adjustable speed control installed capable of being adjusted and synchronized to the speeds of the flatwork ironer and folder from 40 fpm to 170 fpm.
14. The flatwork ironer shall have a waxing program installed that will automatically turn off the vacuum during waxing and cleaning operations.
15. The flatwork ironer shall be equipped with each roll capable of locking automatically in the raised position to prevent accidental lowering if loss of air pressure should occur.
16. Furnish and install two (2), fifty (50) foot blow-down devices with automatic wind up hose reel, capable of reaching around the ironing system. Blow-down devices shall include gauged air pressure regulators capable of regulating air pressure from 0 PSI to 30 PSI. Location of these blow down devices shall be in the front and rear of the flatwork ironers.
17. Install 360-degree sphere mirrors above the ironer systems that shall allow visual observation of, ironer and folder operation.
18. Thermocouples shall be installed on each end of the ironer chest or rolls with remote digital temperature readouts. Digital LED display shall be a minimum 1/2-inch in height.
19. Thermocouple shall be installed on the incoming steam supply line with remote digital temperature readout. Digital LED temperature display shall be a minimum 1/2-inch in height.
20. Thermocouple shall be installed on the condensate steam return line with remote digital temperature readout. Digital LED temperature display shall be a minimum 1/2-inch in height.

21. Thermocouples shall be installed on the transfer/gap plates (if applicable) with remote digital temperature readout. Digital LED temperature display shall be a minimum 1/2-inch in height.
 22. Thermocouple shall be installed on the exhaust of the ironer with remote digital temperature readout. Digital LED temperature display shall be a minimum 1/2-inch in height.
 23. All remote digital LED temperature readouts for above thermocouples shall be located within the same area of the ironer, behind clear side Lucite panels, and labeled.
 24. Flatwork ironer shall be equipped with red, green and yellow production status indicator lights.
 25. For allowing visual observation of the mechanical systems, install scratch and shatter-proof, clear (for the equipment life expectancy), Lucite side panels / doors on both the right and left sides of the, ironer, and folder in lieu of metal side panels.
 26. Panels shall be mounted with-in the doors, flush with the sides of the system and shall be a minimum of 3/8 inches in thickness.
 27. Panels / doors shall be protected with a guard around the center to prevent carts or other devices from damaging the panels. Panels / doors shall be equipped with fasteners/locks to secure them to the system.
 28. Ironer shall be equipped with an illuminating emergency stop buttons (colored RED) when activated at each end of the ironer, interlocked with the entire ironing system and when activated shall render the entire ironing system (spreader feeder, ironer, folder cross folder and stacker) inoperable. The ironer shall also be equipped with a normal equipment stop button (colored RED). All operational and functional buttons/switches shall be labeled as to the function of the button or switch.
 29. Provide 4-Plex GFI receptacles at each equipment location for mechanics use.
 30. An hour gauge shall be installed on the equipment that will show actual hours of run time on the equipment.
- Ordering Data Medium Production Folder Cross Folder with Large Piece Stacker Conveyor:
Furnish and install 3 (ea) – Four lane primary and three cross fold combination folder-cross-folder. Folder shall be an integral unit equipped with a conveyor feed and capable of meeting ironer production requirements. Production requirements - 1080 sheets per hour, 900 pillowcases per hour, 900 (36 inches X 36 inches) double thickness cotton surgical wraps per hour, 900 (24 inches X 24 inches) double thickness cotton surgical wraps per hour. The folder cross folder shall have a PC-based color touch screen controls & information systems” that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics.
1. Combination folder-cross folder, four-lane.
 2. Four-lane folder cross folder shall be capable of receiving small pieces from the flatwork ironer.
 3. Electrical characteristics - 480 volts, 3 phase, 60 cycles.
 4. Folding machine shall be installed, leveled and have a leveling device installed on the machine.
 5. Folding machine, stacker and conveyor shall be equipped with four (4) lockable casters.
 6. Folding machine and conveyor shall be electrically interlocked to the ironing system.
 7. Each lane shall be equipped with a counter to determine the number of small pieces folded.
 8. Each folder shall be equipped with quality grading controls for rips, tears and stains and shall work in conjunction with the spreader feeder machine.
 9. The folding machine and stacker shall be equipped with an illuminating emergency stop buttons (colored RED) when activated, inter-locked with the entire ironing system and when activated shall render the entire ironing system (spreader feeder, ironer, folder cross-folder and stacker) inoperable. The folding machine and stacker shall also be equipped with a normal stop button colored Red. All operational and functional buttons/switches shall be labeled as to the function of the button or switch.
 10. Folder shall have reverse jog capability.
 11. The folder cross folder control shall be a field programmable microprocessor control with an alphanumeric display, providing a minimum number of programs for folding currently being used by the facility. The folder cross folder control shall be capable of changing the operation of the entire automated folder cross folder system to the required functional configuration for the specific item being processed by simply choosing the appropriate program. A lock out feature shall be included to prevent unauthorized programming.
 12. The folder cross-folder shall be equipped with trouble shooting for use in case of a component failure.
 13. The folder cross-folder shall be equipped with a totalizing digital display counter on each of the folding lanes.
 14. The folder cross folder shall operate compatibly with the flatwork ironer operating at a minimum speed range from 30 feet per minute to 170 feet per minute.
 15. The stacker conveyor shall operate as an integral part of the folder cross-folder.
 16. The stacker conveyor shall maintain the quality of the folded items during the stacking process.
 17. The stacker conveyor shall be capable of receiving folded flatwork from the folder cross-folder and drop release the flatwork into precise stack by using a combination centering conveyor.

18. The stacker shall be microprocessor controlled.
 19. The stacker conveyor shall operate with a predetermined stack count of up to 20 large piece flatwork items and shall automatically transport in increments providing space for the next stack.
 20. The stacker conveyor shall have lockable casters and be of the modular concept so that it can simply be plugged into the folder cross-folder for utility connections by using quick disconnects.
 21. Electrical characteristics - 480 volts, 3 phase, 60 cycles.
 22. For allowing visual observation of the mechanical systems, install scratch and shatter-proof, clear (for the equipment life expectancy), Lucite side panels / doors on both the right and left sides of the folder-cross folder and stacker in lieu of metal side panels.
 23. Safety micro switches shall be installed on all doors of the folder cross folder and stacker so that when a door is opened, the machine shuts down.
 24. Folder cross folder machines shall be equipped with red, green and yellow production status indicator lights.
 25. An hour gauge shall be installed on the equipment that will show actual hours of run time on the folder and stacker. There will be an hour meter installed on both pieces of equipment.
- Ironing system will be tested as a system and all pieces must meet production requirements. This test will be conducted by VA inspectors after installation and shakedown is completed.

6d. Small Piece Folders:

Furnish and install six (6) each color touch screen controlled Small Piece Folders. Folders shall be located near the folding tables so they may be used in tandem. Folders shall include a digital counter and rear discharge to a transfer conveyor to the clean take away conveyor.

1. Folding machines shall be microprocessor controlled with trouble-shooting circuitry. Unit shall have a digital display for face width in inches and running count in stack, stacks eject setting, and total number of pieces.
2. Folding machines shall be capable of being programmed for all different items and folds used by the textile care facility.
3. Folding machine shall be capable of being programmed by keypad for air assisted French fold items, cross folds in half folds, quarter folds and one third folds, knife or air pinch – roll cross folds.
4. Machine shall be capable of folding pajama tops, pajama bottoms, robes, terry bath towels, OR Towels, hand towels, and gowns. Each machine shall have programs developed for each category of linens being folded.
5. Machine shall be capable of automatic stacking in increments of 5's, 10's.
6. Machine shall have quality grading controls for stained and torn items.
7. Electrical Requirements - 480 volts, 3 phase, 60 hertz
8. Four (4) each lockable castors are required on the small piece folder and return to feed conveyor if applicable.
9. Shall be capable of being operated by a single operator with rear conveyor discharge to a clean linen take away conveyor.
10. LED piece counter is required.
11. Folder shall be equipped with reverse jog capabilities for removing jammed articles and have electronic jam shutoff.
12. Machines shall be equipped with an illuminated emergency stop button (when activated). Normal stop and emergency stop buttons shall be colored RED. The folding machines shall also be equipped with a normal stop button colored Red.
13. Include lock-out and tag-out requirements for equipment offered. Lock-out / tag-out devices shall be supplied by the contractor.
14. All doors shall have micro switches installed that will shut down the folder if opened during operation.
15. For allowing visual observation of the mechanical systems, install scratch and shatter-proof, clear (for the equipment life expectancy), Lucite side panels / doors on both the right, left sides and back of the folder in lieu of metal side panels.
16. Panels shall be mounted with-in the doors, flush with the sides of the system and shall be a minimum of 3/8 inches in thickness.
17. Panels / doors and top sides of the folders shall be protected with a guard around the center to prevent carts or other devices from damaging the panels. Panels / doors shall be equipped with fasteners/locks to secure them to the system.
18. An hour meter shall be installed on the folder to show that actual run time of the folder for maintenance. Hour meters shall be installed on the operators control panel.
19. Small piece folder machines shall be equipped with red, green and yellow production status indicator lights.

20. The feed stations shall have a guard installed to prevent employees from touching or rubbing against either belts or ribbons.

6e. Blanket Folding Machine (2-position):

- A. One (1) each, color touch screen controls & information systems” that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics, two (2) position clip or clipless spreader-feeding machine that is capable of feeding thermal blankets, bath blankets and bed spreads through the feeding device into a folder-cross folder. Each station shall be equipped with counters. Spreader-feeding machine shall be capable of meeting blanket production requirements of 500 thermal blankets per hour, 500 bath blankets per hour, 500 bed spreads per hour. Thermal blankets, bath blankets and bed spreads will each run separately.
- B. One (1) each, folder-cross folder and stacker with return to feed conveyor. Quality grading controls are required.
- C. One (1) each, 360 degree sphere mirror shall allow visual observation of feeder, folder and stacker operation.

Ordering Data Production Blanket Spreader Feeding Machine

Furnish and install 1 (ea), two (2) position, clip or clip-less blanket spreader feeding machine. Spreader feeder shall be capable of meeting blanket production requirements. The blanket folder shall include digital piece counters and return-to-feed conveyor. Both the feeder and folder shall work as one system and shall be electrically inter-locked so that when an emergency stop button is activated, the feeder, folder and stacker will shut down.

1. Blanket spreader feeding machine shall be capable of producing 500 thermal blankets per hour, 500 bath blankets per hour, 500 bed spreads per hour. Thermal blankets, bath blankets and bed spreads will each run separately.
2. Automatic blanket spreader feeding machine shall be capable of feeding thermal blankets, bath blankets and bed spreads through the feeding device into the folder without moving the blanket spreader-feeding machine.
3. Electrical characteristics - 480 volts, 3 phase, 60 cycles.
4. Blanket spreader feeding machine shall be installed, leveled and have a leveling device installed on the machine.
5. Blanket spreader-feeding machine shall be equipped with four (4) lockable casters.
6. Blanket spreader feeding machine shall be PC-based color touch screen controls & information systems” that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics and capable of being programmed for each item.
7. Each loading station shall be equipped with a LED counter to determine the number of blankets being processed.
8. The blanket folding machine shall be provided with quality grading controls mounted at each station and shall operate in conjunction with grading controls provided with the blanket folder-cross folder. The quality grading controls will be for tears and stains.
9. An illuminating (when activated) emergency stop button, (colored RED) with legends shall be inter-locked with the entire blanket folding system and when activated shall render the entire system inoperable. The blanket spreader feeder machine shall also be equipped with a normal stop button colored Red.
10. Safety micro switches shall be installed on all doors of the spreader feeding machine so that when a door is opened, the machine shuts down.
11. The blanket spreader feeding machine will have capabilities of changing from thermal blankets or bath blankets, to bed spreads by selecting the pre-programmed program.
12. The blanket spreader feeder machine shall be programmed to automatically adjust the speeds of the blanket folder for items being folded.
13. For allowing visual observation of the mechanical systems, install a minimum of 3/8 inches in thickness scratch and shatter-proof, clear (for the equipment life expectancy), Lucite side panels on both the right and left sides of the blanket spreader feeder machine in lieu of metal side panels.
14. Panels shall be mounted flush with the sides of the system.
15. Panels shall be protected with a guard around the center to prevent carts or other devices from damaging the panels. Panels shall be equipped with fasteners/locks to secure them to the system.
16. An hour meter shall be installed on the spreader feeder machine to show the actual run time of the spreader feeder machine for maintenance.
17. The feeder machine shall be equipped with red, green and yellow production status indicator lights.

Ordering Data Production Blanket Folder Cross Folder with Stacker Conveyor:

Furnish and install 1 (ea) – blanket folder-cross-folder. Folder shall be an integral unit equipped with a conveyor feed and capable of meeting blanket production requirements. Production requirements - 500 thermal blankets per hour, 500 bath blankets per hour and 500 bed spreads per hour. Thermal blankets, bath blankets and bed spreads will each run separately.

1. Blanket folder cross folder shall be capable of receiving thermal blankets, bath blankets and bed spreads from the blanket spreader feeder.
2. Electrical characteristics - 480 volts, 3 phase, 60 cycles.
3. Blanket folding machine shall be installed, leveled and have a leveling device installed on the machine.
4. The blanket folding machine, stacker and return to feed conveyor shall be equipped with four (4) lockable casters.
5. The blanket folding machine and conveyor shall be electrically interlocked to the blanket spreading machine.
6. The blanket folding machine shall be equipped with quality grading controls for rips, tears and stains and shall work in conjunction with the blanket spreader feeder machine.
7. The blanket folding machine and stacker shall be equipped with an illuminating emergency stop buttons (colored RED) when activated, inter-locked with the entire blanket folding system and when activated shall render the entire system (spreader feeder, folder cross-folder and stacker) inoperable. The folding machine and stacker shall also be equipped with a normal stop button colored Red.
8. Blanket folder shall have reverse jog capability for removing jammed articles and have electronic jam shutoff.
9. The blanket folder cross folder control shall be color touch screen controls & information systems" that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics. The blanket folder cross folder control shall be capable of changing the operation of the entire automated folder cross folder system to the required functional configuration for the specific item being processed by simply choosing the appropriate program. A lock out feature shall be included to prevent unauthorized programming.
10. The folder cross-folder shall be equipped with trouble shooting circuitry for use in case of a component failure.
11. The blanket stacker conveyor shall operate as an integral part of the blanket folder cross-folder.
12. The stacker conveyor shall maintain the quality of the folded items during the stacking process.
13. The stacker conveyor shall be capable of receiving folded blankets from the blanket folder cross-folder and drop release the flatwork into precise stack by using a combination centering conveyor.
14. The blanket stacker shall be color touch screen controls & information systems" that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics.
15. The stacker conveyor shall operate with a predetermined stack count from five (5) thermal blankets up to 10 bath blankets and bed spreads and shall automatically transport in increments providing space for the next stack.
16. The blanket stacker conveyor shall have lockable casters and be of the modular concept so that it can simply be plugged into the blanket folder cross-folder for utility connections by using quick disconnects.
17. Electrical characteristics - 480 volts, 3 phase, 60 cycles.
18. For allowing visual observation of the mechanical systems, install 3/8" thick scratch and shatter-proof, clear (for the equipment life expectancy), Lucite side panels / doors on both the right and left sides of the folder-cross folder and stacker in lieu of metal side panels.
19. Panels shall be mounted flush with the sides of the system.
20. Panels shall be protected with a guard around the center to prevent carts or other devices from damaging the panels. Panels shall be equipped with fasteners/locks to secure them to the system.
21. Safety micro switches shall be installed on all doors of the blanket folder cross folder and stacker so that when a door is opened, the machine shuts down.
22. An hour meter shall be installed on the blanket folder cross folder and stacker conveyor to show the actual run time of the folder cross folder and stacker conveyor machines for maintenance.
23. Include lock-out and tag-out requirements for equipment offered. Lock-out / tag-out devices shall be supplied by the contractor.
24. Furnish one (1) each, 360 degree sphere mirror shall allow visual observation of blanket feeder, folder and stacker operation.

Item 7 – 80/100 Pound Washer Extractors with Steam Injection:

A. Furnish and install new three (3) each, front-loading soft mount washer-extractors. The washer-extractors shall be of the shell and cylinder type. The size (capacity) shall be based on 5.7 pounds of soiled textiles per cubic foot of cylinder volume (GROSS).
The washer-extractor shall be designed for hand loading and unloading with a minimum amount of effort from employees. The washer extractors will not be used to meet production requirements. However, it will be interfaced with an existing liquid supply injection system.

1. Electrical characteristics - 480 volts, 3 phase, 60 cycles.
2. Unit shall have thermostatically controlled automatic steam injection.

3. Utility connections shall be derived from the water header on the soiled side of the laundry.
 4. Regardless of supplier, a Class 1 - Liquid supply system will be interfaced for the dispensing of eight (8) types of chemicals followed by a fresh water flush capability.
 5. A door shall be provided with a window of heat-treated glass capable of resisting high mechanical and thermal shock.
 6. Automatic thermal overflow cool down required.
 7. Pipe and connections are to be furnished for utilizing a liquid supply system.
 8. Audible and visual alarm at end of cycle for loading and unloading.
 9. Automatic cycle control is required to be of the microprocessor type. The control shall utilize a solid state timing system.
 10. Machines shall be equipped with an illuminating when activated emergency stop button. Normal stop and emergency stop buttons shall be colored red.
 11. Steam injection is required.
 12. Provide 4-Plex (120v) GFI receptacles at each equipment location for mechanics use.
 13. Washers shall have a color touch screen controls & information systems" that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics and automatic cycle control type. Balancing of load prior to extraction is required. Washers shall be capable of being programmed for wash loads.
 14. Washer-extractor shall be vented to the outside atmosphere if offered equipment has such capabilities.
 15. An hour meter shall be installed on each washer that will show actual hours of run time of the washers.
 16. Washer extractors shall have a beacon LED rotary light (colored Amber) identifying end of wash cycle for the hearing impaired. Washers shall also have an audible alarm to indicate when drying cycle has ended.
 17. A blow-down device will be installed within the washer location. A minimum (1 each) and shall be capable of reaching around all washers. This device(s) shall include:
 - a. A gauged air pressure regulator, with quick disconnect, capable of regulating air pressure from 0 PSI to 30 PSI.
 - b. Minimum 50 foot length of heavy duty, reinforced non-kink air hose on an automatic retractable reel.
 - c. Trigger operated air nozzle with any necessary extensions for reaching hard to reach areas.
 - d. Locations of the blow down device(s) shall be depicted on drawings.
- B. Wash System Controls: Furnish and install wash system controls on each individual machine and as part of one central control. System shall include a color laser printer and shall be located within the Textile Care Managers office. Wash system controls will include all available options offered.
- The central control system shall be located in the office of the Textile Care Manager. All controls shall be solid state of the matrix variety.
- The central control system shall be capable of monitoring and managing all aspects of wash system productivity, i.e., chemical formulas and water consumption.
- The system shall allow for both visual and actual print-out of data. A minimum 22 inch monitor shall be supplied. A color laser printer shall also be provided to print data. The system shall be programmed by keyboard and monitor energy usage, utility availability and usage, average load and unload time and actual productivity, i.e., pounds produced.
- The system shall assist management concerning water supply and potential chemical imbalance.
- The system shall be capable of programming 40 formulas for wash systems offered.
- Chemical measures shall be capable of converting to metric systems.
- Item 8 – 110/120 Pound (Non-Production) Gas Heated Drying & Conditioning Tumblers:
- Furnish and install three (3) each 110/120-pound gas heated dryer with internal lint collection. The dryers shall be a single door, non-pass through type dryer. Outside make up air is not required.
1. Unit shall be a drying and conditioning tumbler, laundry, commercial type, non-pass through Size – 110/120 pound cylinder.
 2. Electrical characteristics – 480 volts, 3 phase, 60 cycles.
 3. Dryers shall have a color touch screen controls & information systems" that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics. Dryer shall be capable of programming each category of textiles. Each program shall be listed on a printed card or paper showing the items dried. Example – Program 1 – Micro Mops – 130 degrees – Dry time 35 min – cool down 8 minutes on a laminated card or paper and attached to the dryer for the employees use.
 4. Galvanized cylinders required.
 5. Reversing and non-reversing required.
 6. Tumbler shall be Gas heated.
 7. Light required to designate that tumbler is in operation.

8. Tumbler shall have internal lint collection.
 9. Tumbler's exhaust air shall be directed to outside atmosphere.
 10. Drying and conditioning tumbler shall have a beacon rotary light (colored Amber) identifying end of drying cycle for the hearing impaired. Dryer shall also have an audible alarm to indicate when drying cycle has ended.
 11. Normal stop push buttons and emergency stop buttons shall be colored red. An illuminating (when activated) emergency stop button shall be installed on the drying conditioning tumbler. Yellow background
 12. Drying conditioning tumbler shall be equipped with lockout/tag out for servicing and maintenance of equipment. Tags and locks shall be provided by the contractor.
 13. The dryer shall be equipped with a combustion auto response system that will detect a fire within the dryer cylinder. The system shall incorporate a multi-port manifold to saturate the load. The combustion auto response system shall activate a warning signal and shall be connected to a rotary beacon LED light (colored RED) and audible alarm located on the dryer, to indicate if a fire exists in the dryer. A flow alarm valve interconnected with existing fire panel located in the laundry plant building shall be installed in the fire suppression system to alert authorities of a fire.
- A dedicated cold water pipe shall be connected to the lint collector fire suppression system. This dedicated cold water line shall be insulated, covered with red PVC Plastic and identified as lint collector fire suppression.
14. Exhaust ductwork shall be cylindrical and have large easily accessible removable access panels installed for easy clean-out and manual fire fighting at each bend in the duct work. Exhaust air ductwork shall be insulated and wrapped with colored PVC plastic covering with identification and flow markings, and shall be discharged through the roof.
 15. All ductwork located outside shall be galvanized steel. Ductwork shall be identified and have directional flow markings installed.
 16. The housing shall have doors located at a readily accessible height and shall be hinged with a heavy duty latch and door handle. The doors shall have a window fabricated from a commercial grade of shock and heat resistant glass.
 17. An hour meter shall be installed on each dryer that will show actual hours of run time of the dryers.
 18. A blow-down device will be installed within the dryer location. A minimum (1 each) and shall be capable of reaching around all dryers. This device(s) shall include:
 - a. A gauged air pressure regulator, with quick disconnect, capable of regulating air pressure from 0 PSI to 30 PSI.
 - b. Minimum 50 foot length of heavy duty, reinforced non-kink air hose on an automatic retractable reel.
 - c. Trigger operated air nozzle with any necessary extensions for reaching hard to reach areas.
 - d. Locations of the blow down device(s) shall be depicted on drawings.

Item 9 – Folding Tables:

- A. Each folding table shall be approximately 5 feet wide by 4 feet deep by 3 feet high.
- B. The front of each table shall have a wood or steel folding platform approximately 5 feet wide by 20 inches deep and approximately 39 inches off the floor.
- C. Each folding table shall have a holding capacity of approximately 400 pounds of fully dry textiles.
- D. Each folding table shall have a canvas top (approximately 6 feet wide) attached at the back side of the folding platform, then hanging down to nearly the floor, then back up to the back top of the folding table and attached to a motorized roller.
- E. The roller shall be activated by a foot or hand operated pedal at the front of the folding table that will roll the canvas onto it, thereby, raising the textiles to be folded.
- F. Alternate folding tables may be offered, provided performance and size requirements are met.

Item 10 – Garment Tunnel Finisher:

One (1) each, gas heated garment tunnel finisher. Finisher shall automatically process and deliver, to the textile distribution area, 200 shirts, 200 trousers and 200 coats at 35 percent + or - 5 percent moisture retention damp to dry per hour. The Garment Tunnel Finisher shall have a color touch screen controls & information systems” that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics.

Garment Finisher shall incorporate the following:

1. Heavy duty construction throughout.
2. Insulated double wall construction.
3. Electrical Characteristics – 480 Volts – 3 phase – 60 htz.

4. Smooth formed stainless steel interior panels without exposed fasteners or sharp edges.
5. Steaming jets designed for maximum coverage of the garment assuring fabric relaxation and wrinkle removal.
6. Auto Warm-Up Cycle primes live steam system for consistent, dry steam.
7. Stainless steel shields over steam tubes to prevent direct garment contact.
8. Entrance and exit openings designed to reduce steam and heat loss for increased efficiency.
9. Auto Shut Down feature reduces any remaining heat loss to operator space and saves energy.
10. Automatic garment unloading.
11. Stainless steel entrance and exit guides to assure proper garment alignment.
12. Garment unloading and storage rail.
13. Lift-off service panels with locks provide easy access for service while restricting unauthorized access.
14. Variable speed conveyor system.
15. Vertical return conveyor design that reduces floor space requirement.
16. Conveyor travel for left hand exit.
17. Easy to use dial conveyor speed control.
18. Digital conveyor speed indicator displays "Hooks per Hour".
19. Digital garment counter.
20. Digital electronic thermostatic control.
21. Automatic on/off live steam control with adjustable timer.
22. Two individual live steam jet systems with individual on/off switches and indicator lights.
23. All gauges, regulators, steam traps and switches necessary for operation.
24. An illuminating (when activated) emergency stop button.
25. The unit shall have power exhaust through the roof.
26. The unit shall be installed with an hour meter to show actual run time of the finisher.
27. Unit shall be gas heated.

Item 11 – Cart Makeup Shelving Linen Flow Rack:

Shelving is required with removable magnetic plastic identification signs for each lane. Lettering shall be a minimum height of 1/2 inch. The shelving shall be capable of holding a minimum of 8000 pounds of textile production. This shelving shall fit within available space and shall be so arranged that any employee loading delivery carts can unload the shelving from one side with a minimum of effort and steps. Make-up shelving shall be built no larger than 4-lanes with one lane as a return tray lane to allow for easy cleaning beneath the flow rack. A walk way (3 feet wide) shall be established between each 4-lane storage section. If the top storage shelf or return empty tray lane is above 5 feet, 8 inches in height on the loading and unloading side, a platform with stairs and safety handrails shall be provided. Platforms shall be constructed in the same manner as the soil sorting and washer loading platforms.

ALL CALCULATIONS WILL BE BASED ON 25 POUNDS PER TRAY.

Item 12 – Central Wet/Dry Vacuum System:

Furnish and install one (1), 20 horsepower central wet/dry vacuum system capable of reaching all textile care processing equipment, administrative areas, ancillary support areas, and surfaces of internal roof support structure.

1. This system shall have a minimum of 30 drop points distributed strategically throughout the footprint of the textile care processing system including administrative areas such as offices and lounges. The system shall also include drop points in the mechanical room.
2. Four (4) portable wet system containers shall be provided with the system.
3. Vacuum tubing and fittings shall be constructed of a minimum 16 gauge zinc coated material using shrink sleeves at connection points.
4. The system shall include easy access door(s) for cleaning of filters and for preventative maintenance. The system shall also include a sufficient number of clean-outs in the vacuum tubes as per manufacturer's recommendation.
5. The central vacuum system shall be exhausted to the outside atmosphere and have an air noise silencer installed.

6. System shall include four (4) on/off switches; one located on the soil side, one located on the clean side, one located on the main unit and one located in the laundry managers or supervisor's office. All switches shall be provided with an indicator light (colored GREEN) to show when the system is in operation.
7. System shall also include a timer that will shut off the central vacuum system after a preset time.
8. Accessories shall include the following:
 - a. Dry type wands, four (4) each.
 - b. Wet type wands, four (4) each.
 - c. 12 feet in length X 2 inch diameter heavy duty flexible reinforced industrial type hoses, four (4) each.
 - d. 50 feet in length X 2 inch diameter heavy duty flexible reinforced industrial type hoses, four (4) each.
 - e. Four (4) sets of accessory attachments, i.e., 4 inch round brush, corner and crevice attachment and cement floor tool attachment.
9. Four (4) storage cabinets shall be provided for the storage of accessories and hoses. Storage cabinets shall be located on the soil side, clean side, administration area and mechanical room of the textile care processing facility. Cabinets shall be a minimum of 24 inches wide, 24 inches deep and 72 inches high with 6 inch high legs for easy cleaning under the cabinet. Cabinets shall be lockable and also include a shelf for accessories. Cabinets shall also be identified with 2-inch letters and numbers.
10. An hour meter shall be installed on the central vacuum system that will show actual hours of run time of the vacuum.

Item 13 – Mechanical Room:

13a. Laundry Ancillary Support Water Storage/Pumping/Reuse System/Recycling System:

Furnish and install all items and components necessary for the water storage/pumping/ reuse/recycling/softening systems to perform according to design specifications.

Wastewater Heat Recovery, Water Storage/Pumping/Reuse, and Wastewater Recycling systems – General:

Furnish and install all items and components necessary for the

- (a) Wastewater heat recovery system
- (b) The water storage/pumping system
- (c) The wastewater recycling system

The water systems shall be sized to be capable of supporting a wash/extractor system, a continuous batch washer system, or a combination of the two. All proposed equipment will be based on water consumption of 2.6 gallons per pound of installed wash/extractor capacity (both production and non-production, and 0.5 to 0.75 gallons per pound of installed continuous wash/extract system (CWES) capacity.

A water reuse system is required if the specified wash/extractor system is between 1000 and 1999 pounds washer capacity (excluding machines of under 200 pounds capacity). A wastewater recycling system is required if combined capacity of the specified wash/extractor & CWES system is 2000 pounds per hour washer or greater. If a wastewater recycling system is required then a water reuse system shall not be required. The installed equipment shall perform according to design specifications.

Wastewater Heat Recovery:

The waste water heat recovery system shall be capable of transferring heat to both the hot and tempered water to be used in the washroom and capable of a minimum energy recovery of 65 percent if the average fresh water temperature is between 45 and 60 degrees F, and 55 percent if above 60 degrees F. The wastewater heat recovery system shall be capable of meeting the following specifications:

1. Preheat the hot water make up to within 10 degrees F of actual wastewater temperature, and the tempered water to 100 degrees (nom.) when the system is operating at average flow conditions. In addition, a control thermostat is required to adjust the stored tempered water tank temperature as desired. See paragraph 18, Water System Sizing Guide, Table I, for equipment sizing guidelines.
2. The heat reclaimer shall be constructed so that the fresh water shall contact only corrosion resistant materials, and the heat exchanger heat transfer surfaces themselves shall be of stainless steel construction.
3. System shall have an automatic cleaning cycle as well as the capability of chemical cleaning through re-circulation.

Fully automatic cleaning controls shall be included as standard equipment. During end of day shutdown the PLC shall automatically initiate a re-circulation cleaning cycle of hot water through the heat exchanger for at least 30

minutes using a proper chemical cleaning solution. All valve operation and cleaning chemical addition shall be automatic.

4. System shall have easy access for full inspection and maintenance of all waste and fresh water heat transfer surfaces.

5. All wastewater shall be screened for automatic removal and discharge of suspended solids to a minimum of 235 microns before entering the heat reclaimer. Provisions shall be included for easy visual inspection of the screening unit from floor level without disassembly.

6. System shall have automatic controls to ensure sufficient water is supplied to the hot and tempered water storage tanks to maintain normal washroom operations.

Fresh and wastewater flow rates shall be controlled with automatic modulating valves that will maximize heat recovery according to the variable usage of waters during normal wash production. The automatic modulating control valves shall match the washer water demands to the available wastewater in the pit to achieve optimum heat recovery at any plant production level. A single system on/off switch shall be the only control needed to start the system at any water flow from 25 to 100% of design flows. Level controls shall evaluate plant water demands, available wastewater in the wastewater storage pit, and select the most advantageous flow rates to achieve the optimum heat recovery.

7. System shall have a Control panel with a 12" touch screen display for system operation and monitoring. The panel shall be a NEMA 12 enclosure. Display screens shall be provided for complete operational status and control of the wastewater heat recovery, water storage/pumping, and water reuse systems. The following information shall be provided, but not limited to, on the touch screen display: Water temperatures, water flow rates, pit & tank levels, pump operating status, valve position, indicating status light, and system alarms with acknowledgement.

Temperature displays on the touch screen display shall indicate fresh water temperature in, preheated hot and tempered water temperatures out, and waste water temperatures before and after heat recovery.

8. The contractor guarantees:

a. The offered system will meet performance specifications.

b. The heat exchanger will not stop-up or plug when operated in accordance with the manufacturer's operating instructions.

c. The heat exchanger will be free of defects in workmanship and material defects for a period of five years.

The contractor shall furnish and install new, one (1) system. Shall be in accordance with performance specifications and purchase descriptions consisting of:

Water Storage/Pumping System:

The water storage/pumping system shall be capable of meeting the following specifications:

1. The hot water storage tank shall have a storage capacity of "D" gallons/liters and the tempered water storage tank shall have a storage capacity of "E" gallons/liters. Material shall be of Type 304 stainless steel. If the fresh water has a normal chloride level of 40 mg/l or more, the tank materials shall be of Type 316L stainless steel. See paragraph 18, Water System Sizing Guide, Table I, for Hot and Tempered Water Storage Tank Volumes.

2. The water storage tanks shall be insulated to prevent unnecessary heat loss. Insulation on all storage tanks shall be a minimum of 1-1/2 inches thick, 3 pound high density, semi-ridged duct board with factory installed vapor barrier facing and re-jacketed with a minimum .020 thick color coded PVC plastic. Water storage tanks shall have sight tubes installed with proper bracing. Tanks shall have thermistors with temperatures displayed on the main system control panel touch screen display. All storage tanks shall be provided with high level overflows and bottom drains discharging into site drains before going to the sewer. Tanks shall be provided with a means for full access inside tanks. Tanks over 12 feet high will require a side man way for internal access.

All water storage tanks shall be vented to the outside atmosphere of the building.

3. Three (3) pumps shall be provided for the pumping system. One pump shall be for hot water and a second pump for tempered water. The third pump shall be usable as an on line spare for either the hot or tempered water pumps. The pumping package shall be manifolded with corrosion resistant piping. Isolation valves are required to allow removal of a pump for servicing. The valving will also allow putting the spare pump on line by only changing valve positions.

The pumps shall be rated at "F" gpm/lpm at motor full load rating and 115 feet (minimum) TDH. Motors will have a minimum service factor of 1.15. The pumps shall have a pumping efficiency of at least 70 percent throughout the majority of the operating range. See paragraph 18, Water System Sizing Guide, Table I, for varying pump capacities.

4. A control panel shall be provided to indicate operational status of the water pumping system. The panel shall be a NEMA 12 enclosure. Switches with indicator lights shall be provided for motor operations. Pump motor starters

and controls shall be located in this panel. Operational indicator lights shall be provided for motor operations and displayed on the main system control panel touch screen display and remote status panel.

5. A Variable Frequency Drive (VFD) shall be provided for each pump and a pressure transmitter shall be provided for each discharge of the pumping system. The VFD controllers shall read the discharge pressure signal from the transmitters and automatically adjust the pumping speed by increasing or decreasing the output frequency of the VFD according to plant demand. The pressure transmitters shall be pre-mounted in the pump discharge piping and pre-wired to the control panel. Included in the control panel are the necessary controls to operate the middle pump (spare pump) from either of the pressure transmitters.

6. Continuous wash/extract system(s) shall be supplied with hot and tempered fresh water through a temperature and pressure compensated blending valve. A temperature gauge will indicate selected blended temperature going into the system.

7. An automatic hot water steam heating system shall be provided to maintain a hot water storage temperature of 160 degrees F independently of the heat recovery system.

8. The flash steam recovery system shall be capable of cooling "B" gpm/lpm of returning plant condensate from approximately 250 degrees F to 200 degrees F. The recovered heat shall be added to the stored hot water. A thermostatically controlled bypass valve shall be installed for automatic bypassing of returning plant condensate to avoid hot water tank overheating. See paragraph 18, Flash Steam Requirement Guide, Table III, for varying capacities.

Wastewater Recycling System:

The wastewater recycling system shall be capable of processing 100% of the laundry's total wastewater stream and producing a minimum of 50% of the total flow as recycled water suitable for use, in lieu of fresh water, in the laundering process without adversely affecting product quality. The recycled water shall be transferred to either the hot or tempered water storage tank. The portion of the wastewater not recycled shall be fed directly into the wastewater heat recovery system where the heat shall be extracted before discharge to the sanitary sewer. The wastewater recycling system shall meet the following specifications:

1. Recycled water shall be filtered to a minimum level of 0.2 micron.
2. The filter medium shall have a minimum working life of 10-years.
3. The recycle system shall be constructed so all wetted surfaces are of stainless steel construction.
4. System shall have a self-contained Clean-in-Place (CIP) system to clean the filtering medium. The CIP system shall be fully automatic and programmable.
5. System design shall incorporate ready access for mechanical inspection and cleaning of filter medium surfaces. Accesses shall be of a type easily opened and sealed for ease of maintenance, such as roll-groove type connections.
6. System shall have provisions to automatically break the concentration boundary layer that forms on filter medium during normal continuous steady state operation.
7. System shall have automatic controls for all functions of system operations to ensure minimal operator oversight is required to operate system.

System shall have a control panel with a 12" touch screen display for system operation and monitoring. The panel shall be a NEMA 12 enclosure. Screens shall be provided for complete operational status and control of the wastewater recycling system. The following information shall be provided, but not limited to, on the touch screen display: Water temperatures, water flow rates, pit & tank levels, pump operating status, valve positions, system pressures, and system alarms with acknowledgement.

The control scheme shall include operator selectable and programmable modes of operation; controls shall monitor system performance using industry standard algorithms, alert operator(s) to significant changes in performance, and take automatic action to correct the performance change. Automatic protocols shall be in place to address failure of all key components, including failure of sensors, pumps and valves.

Control panel shall include a built in web server module that will allow for monitoring and troubleshooting of the system via the Internet. The successful offeror shall be responsible to coordinate with the facility for a VA provided internet connection for the system.

8. The contractor guarantees:

- a. The offered system will meet performance specifications and that the level of recycling stated is indefinitely sustainable without adversely affecting product quality.
- b. The filter medium shall have a minimum working life of 10-years.
- c. During the warranty period, it is the successful offers responsibility to perform the required system maintenance which may include monthly/quarterly systems monitoring and adjustments and all ongoing associated support.

Miscellaneous Items:

The following items are also required:

1. The water system shall include total water back-flow prevention into the main water supply.
2. A separate commercial grade gas operated hot water heater (100 gallon capacity / 379 liter capacity) shall be installed to service administrative areas, rest rooms, etc. The hot water heater shall be insulated to prevent heat loss.
3. A 50-gallon cast Iron tank (minimum) condensate receiver tank with duplex pump is required. This system shall be used for pumping process condensate from the flash steam recovery system to the main condensate return header.
4. A hose bib shall be installed in the mechanical room and connected to a retractable hose that will reach around the entire mechanical room for cleaning the area.
5. Blow-down devices on retractable reels will be installed within the dryer locations. A minimum (2 each) and shall be capable of reaching around all dryers. This device(s) shall include:
 - a. A gauged air pressure regulator, with quick disconnect, capable of regulating air pressure from 0 PSI to 30 PSI.
 - b. Minimum 50 foot length of heavy duty, reinforced non-kink air hose on an automatic retractable reel.
 - c. Trigger operated air nozzle with any necessary extensions for reaching hard to reach areas.
 - d. Locations of the blow down device(s) shall be depicted on drawings.

Remote Status Panel:

A remote status panel with a 12" touch screen display panel shall be incorporated into the system (located in the laundry managers office), which will provide complete operational status of the air compressor; wastewater heat recovery, water storage/pumping, water reuse, and wastewater recycling system. The remote status panel shall also provide alarm status and notification for all of the above systems.

Monitoring displays shall indicate laundry steam pressure, air header pressure, hot, tempered and reuse washroom header pressures and be appropriately labeled. The remote panel shall indicate the status of water flow patterns and operational pumps.

An automatic videographic recorder shall monitor and record incoming fresh water temperature, preheated hot water temperature, preheated tempered water temperature, wastewater temperature in and wastewater temperature to sewer. The contractor shall provide this panel with appropriate signals to the status panel.

An hour meter shall be installed on the system to the actual run time of the pumping system for maintenance.

PERFORMANCE GUIDES:

TABLE I
WATER SYSTEM SIZING GUIDE

Water Used per Hour

- "A" Hot Water Flow Rate per Minute
 "B" Tempered Water Flow Rate per Minute
 "C" Hot Water Storage Volume
 "D" Tempered Water Storage Tank Volume
 "E" Pump Flow Rate per Minute
 "F"

Gal/M3	Gal/Liters	Gal/Liters	Gal/M3	Gal/M3	Gal/Liters
3000/11.4	30/114	20/76	1300/4.9	1000/3.8	200/757
4500/17.0	45/170	30/114	1800/6.8	1400/5.3	280/1060
6000/22.7	60/227	40/151	2100/8.0	1700/6.4	280/1060
7500/28.4	75/284	50/189	2400/9.1	900/7.2	50/1325
9000/34.1	90/341	60/227	2600/9.8	100/8.0	350/1325
12000/45.4	120/568	80/303	3200/12.1	2600/9.8	350/1325
15000/56.8	150/568	100/379	3800/14.4	3200/12.1	500/1893
18000/68.1	180/681	120/454	4500/17.00	3800/14.4	500/1893

Basis – 60% Hot water, 160°F (71°C) Hot Water Storage Temperature

TABLE II
REUSE FEED PUMP & STORAGE TANK CAPACITY GUIDE

Production	Washer/Extractor Capacity	Pump Flow Rate per Minute
“A” Rinse Water Storage Tank Volume		
“B”		
Pounds/Kg	GPM/Liters	Gal/M3
1000/454	185/700	800/3.0
1500/680	185/700	110/4.2
2000/908	185/700	11300/4.9
2500/1134	250/950	1400/5.3
3000/1362	250/950	1500/5.7
4000/1814	250/950	1900/7.2
5000/2268	325/1225	2200/8.3
6000/2722	325/1225	2600/9.8

TABLE III
FLASH STEAM REQUIREMENT GUIDE

Water Used		
Per Hour		
“A” Returned Plant Condensate per Minute		
“B”		
Gal/M3	Gal/Liters	
3000/11.4	10/38	
4500/17.0	15/57	
6000/22.7	20/76	
7500/28.4	25/95	
9000/34.1	30/114	
12000/45.0	40/151	
15000/56.8	50/190	
18000/68.1	60/227	

13b. Air Compressors and Air Refrigerated Dryer System:

Furnish and install new, three (3) 40 HP rotary screw, air-cooled air compressors and three (3) Air Refrigerated Air Dryers. Air system shall consist of the following:

1. Size – 40 HP rotary screw, air-cooled air compressors.
2. Electrical characteristics - 480 volts, 3 phase, 60 cycles
3. Compressors shall be sized to continually provide 120 P.S.I. oil and water-free air and shall operate in a lead-lag sequence based upon air supply demand.
4. Air Compressor System shall include all interconnecting piping between air compressors and specified equipment.
5. Water drain lines shall be installed from each compressor to floor drains.
6. Timed, automatic blow down of compressor tanks is required.
7. An air-operated after-cooler and refrigeration unit is required for each compressor.
8. Coalescing type pre filters and after filters are required for the air dryers.

8. With compressors running, the sound shall not exceed 70 db
9. A blow-down device will be installed within the mechanical room. A minimum 1 each) and shall be capable of reaching around all equipment within the mechanical room. This device(s) shall include:
 - a. A gauged air pressure regulator, with quick disconnect, capable of regulating air pressure from 0 PSI to 30 PSI.
 - b. Minimum 50 foot length of heavy duty, reinforced non-kink air hose on an automatic retractable reel.
 - c. Trigger operated air nozzle with any necessary extensions for reaching hard to reach areas.
 - d. Locations of the blow down device(s) shall be depicted on drawings.
 - e. An hour meter shall be installed on the system to the actual run time of the air compressors for maintenance.
10. An air tank reservoir(s) will be required for the air compressor system. The successful offeror shall size the tank reservoir for the 3 compressors to supply enough air for all the equipment without interruption. The air tank reservoir needs to meet ASME code rating.

Item 14 – Air Filtration System:

14a: Clean Side

Furnish and install new four (4) each clean side air filtration systems.

1. Electrical characteristics – 480 V.A.C, Three phase
2. System shall provide 8,000 cubic feet per minute.
3. Controls shall be on/off switch with two (2) speeds with high/low, fan control.
4. Pilot light shall be colored green that indicates when unit is operating. A red light shall indicate the filter media is indexing.
5. Cabinet for air filtration system shall be a minimum 18 gauge welded steel finished with chemical and oil resistant paint.
6. Filtration system shall allow for filter to be advanced manually or automatically.
7. Filtration system shall have adjustable exhaust at each end of the unit.
8. Filtration system shall have a see through access door at each end of the unit.
9. All dust/lint shall build up on a filter to a preset static pressure and index automatically or manually and will be neatly rolled up and collected for easy disposal.
10. System shall allow for filter change without tools or special equipment.

14.2 – Soiled Side Air Filtration System:

Furnish and install new two (2) each automatic air filter unit in the soiled side of the laundry.

1. Electrical characteristics – 480 V.A.C, three phase
2. System shall provide 6,000 cubic feet per minute.
3. Controls shall be on/off fan control. Switch auto/off, monetary movement filter control.
4. Pilot light shall be colored green that indicates when unit is operating. A red light shall indicate the filter media is indexing.
5. System shall have two (2) anodized aluminum parabolic reflectors with two (2) high intensity lamps.
6. System shall allow for filter to be advanced manually or automatically.
7. System shall include intake flange.
8. All dust/lint shall build up on a filter to a preset static pressure and index automatically or manually and will be neatly rolled up and collected for easy disposal.

14.3 - Furnish new, six (6) each roll media for clean side and six (6) each roll media for soiled side air filtration system offered.

14.4 - Furnish new, six (6) each take-up tubes with plastic & metal end caps for clean side and six (6) each roll media for soiled side for air filtration system offered.

Item 15 – System Blow-Down Devices:

Furnish and install blow-down devices (15 each) shall be installed throughout the facility (soiled and clean sides, mechanical room). Blow-down devices shall be capable of reaching around all equipment, conveyors, roof trusses and platforms on the soil and clean side. These devices shall include:

- A. A gauged air pressure regulator, with quick disconnect, capable of regulating air pressure from 0 psi to 30 psi.
- B. Heavy duty, reinforced non-kink air hose, 100 feet in length, on an automatic retractable reel.
- C. Trigger operated air nozzle with any necessary extensions for reaching roof trusses and any other hard to reach areas.

Item 16 – Garment Exchange System (Uniform):

Furnish and install two (2) each Garment Exchange System with Video Security System and Spare Parts Kit. Systems shall be installed at the following locations:

One (1) system to be located within the new laundry building at:

Department of Veterans Affairs Medical Center
4800 Memorial Drive
Laundry Facility – Building 222
Waco, TX 76711

One (1) system to be located within the new laundry building at:

Department of Veterans Affairs Medical Center
1901 South Veterans Memorial Blvd.
Temple, TX 76504

The systems installed must have enough storage capacity to accommodate approximately 1,000 employees. The garment exchange system shall have a color touch screen controls/ card reading & information systems” that incorporate automatic/manual machine operation, self-testing, fault display and built-in diagnostics.

GARMENT EXCHANGE SYSTEMS:

The systems shall be configured and meet the following:

Configuration and Capacity –

1. One system to be located in Waco’s present uniform issue area (Room) with a minimum capacity of 1000 users, all of whom will have an assigned slot. Each employee is issued 5 garments each.
2. The second system to be located in Temple’s uniform issue area (Room), with a minimum capacity of 1000 users, all of whom will have an assigned slot. Each employee is issued 5 garments each.
3. Two (2) each integrated enclosed video return bins with recording mechanism, interface with the UHF RFID garment tracking software.
4. Two (2) standard enclosed return bin located in uniform area (with video).

The successful offeror will remove existing garment systems and install new garment systems. Provide all design and build services including wall construction, hook up of electric and air lines to equipment, PC units as required, all freight rigging and delivery

1) GENERAL REQUIREMENTS:

- A. The systems shall provide automated dispensing and return of uniforms.
- B. There will be a secure locking door to prevent unauthorized access to the system. The door will only open upon an authorized user entering their 6 digit pin number at the touch screen.
- C. Uniforms can only be removed from the system at the designated access point.
- D. The conveyor is to be floor mounted.
- E. A comprehensive and integrated software system will be provided by the contractor.

F. Both the tracking software and operating software must be capable of being repaired and updates provided by remote access.

G. All machines must be programmed by garment tracking software using a stand alone network provided by the contractor. No data is to be transferred over the facility network. All transactions are recorded in a stand-alone centrally located database.

H. The conveyor will be loaded in a single operation by loading items to empty slots in sequential order.

I. The system must offer the option of “credit control”, meaning that users can be denied access to clean items after exceeding their limit.

J. A complete package to include all peripherals (heat seal machine, labels, bar codes and/or man readable labels, PC units, all scanning hardware) must be provided by contractor

2) OPERATING SEQUENCE

A. To collect garments, the user enters their 6 digit PIN at the touch screen, which interfaces to the garment tracking software through the contractor provided stand alone network thus initiating distribution of uniforms.

B. The users retrieves his uniforms by opening the door after it has unlocked, and their uniform position is open. The user must have access only to their uniforms, and all other positions must be locked down by pneumatic plungers.

C. The uniform issue (on all systems) is recorded and sent to the software tracking system.

D. A debit is recorded in the software for each transaction performed by a user

The following operating features are specific to the upstairs scrub issue and return system.

E. Actual items issued are recorded by the antenna and sent to the software tracking system.

F. Clean scan – items are loaded to the system, and the conveyor is rotated one revolution. All loaded items are automatically scanned to clean.

G. Issue scan – when a user takes garments, they are debited to their account by the dual door antennae. Any items put back (taken in error) are credited by the inside antenna.

H. Soiled scan – soiled scanning is automatically done in bulk in a single operation in the laundry

3) CONTROL SOFTWARE

A. The contractor to furnish and install heavy duty touch screen keypads integrated with their equipment. These must be dedicated, ultra heavy duty touch screen models, membrane or manual touch pad keyboards are not acceptable. A separate touch screen must be provided for each of the video return bins as well as one each for the garment exchange systems.

B. The uniform management software shall be installed on a PC in a central location and will communicate through the provided stand alone network with all of the automation components.

C. The system shall include uniform management software to provide integrated garment tracking together with monitoring and control of a user database.

D. The machine shall be connected to a contractor provided server / computer and operate through the stand alone network to allow users to be added or deleted remotely. An additional copy of the software can be installed on the PC in the textile managers office to allow access to the management reporting functionality.

E. All uniforms will be entered in the tracking software. Uniforms will be equipped with a bar code and/or man readable label for identification purposes.

F. The software will be completely integrated with all machines so that a single suite of reports can provide data on user transactions, machine activity and garment movements. The entire uniform inventory will be managed by this software.

The software will also have the following integrated features

G. Interface to conveyor systems for all garments for automated distribution of assigned uniforms to employees.

H. Interface with deposit bins for drop off verification and credit control.

I. Track scrubs and uniforms to and from laundry, with ability to generate reports on laundry activity and appropriate cleaning charges.

J. Create Uniform Repair Order and monitor uniform repair activity.

K. Integrated electronic signature capture terminal for use when assigning or loaning uniforms to employees.

L. Integrated purchasing system

The following reports will be available from the software

- 1) Inventory Reports
- 2) Employee Reports
- 3) Purchasing Reports
- 4) Sales Reports
- 5) Repair Reports
- 6) Production Reports
- 7) Report Generator – Ability to create reports
- 8) Report Scheduler – Ability to schedule reports to be automatically emailed

4) VIDEO RETURN BINS FOR SOILED GARMENTS

A. System shall have an enclosed deposit bin which can be mounted in wall or used as a free standing bin in changing or common areas.

B. Each deposit system shall have an internal video camera, sensor, bin lock, event recorder and playback capability.

C. Each bin will be equipped with a heavy duty touch screen, to accurately identify user depositing soiled garments.

D. Bin will only unlock when an authorized user enters their PIN number.

E. Bin must interface to all other components through contractor provided stand alone network.

F. Records deposit by PIN number information and sends that data to the garment tracking software and issues credit to the users account.

G. Sequence of operation:

- 1) User enters PIN number at the reader, and the bin is unlocked

- 2) Deposit two scrub (or uniform) pieces (one on each side of split bin) and close door
- 3) Video camera and sensor system send credit for deposit and record the items dropped off in the bin for future review should that be required (in the event a non-scrub item is found in the bin).
- 4) Access to debit for false deposits is available from the computer system
- 5) Electrical spec – 110V single phase, plug in to wall outlet capable
- 5) CONVEYOR HARDWARE SPECIFICATIONS

TRACK

The track is 1 5/16" O.D. x 13 gauge welded steel tubing, zinc plated to prevent corrosion. Cross members are 3" steel formed channel.

DRIVE

The conveyor drive is fractional horsepower direct drive motor built by Brother International, Horsepower selections are ½ and 1 HP both braking or non braking versions. This is coupled to a Hitachi Inverter for multiple voltage applications

Drive Sprocket

- ☐ Integral flame cut steel laminated to a 54T RC sprocket, shaft diameter 1 1/4"
- ☐ Two 1 ¼ " diameter, permanently lubricated, precision pillow block bearings support the drive sprocket.
- ☐ Heavy duty drive utilizes 1 5/8" diameter sprocket shafts and pillow blocks.
- ☐ Where applicable, drive options are supplied: dual drives, no-slack drive, increased horsepower, special gear reduction.

CONVEYOR CHAIN

Yokes

Each die cast aluminum yoke contains two load bearing wheels 1 3/8" diameter with nylon tires, on steel cores. Hardened inner races roll on steel ball bearings. Two nylon stabilizing rollers mounted on the underside of the yoke provide positive tracking of chain.

Frames

Conveyors have 10 slots in each 12" frame to separate orders. All frames have hardened hinge pins and spacers to minimize wear. Frames are steel, aluminum, or nylon, depending on conveyor model.

ELECTRICAL

The reversing motor starter has 24 volt coils with mechanical interlock. A U.L. listed, class two, step-down transformer mounted in the starter box, provides for a 24 volt current limiting control circuit. The electrical circuit has been approved and listed by ETL (Electrical Testing Laboratories).

24 Volt Operating Controls

All control wiring to operate the plungers, activate door locks, etc, will be 24V for user and operator safety.

Pneumatic plungers

There must be a set of 10 plungers to match the 10 slot frames. Plungers drop to block access to other user's garments when the issue door is opened

Item 17 – Communication/Intercom System:

Furnish and install a telephone type communication system between the soiled side and clean side processing areas; telephones shall be located on the barrier wall (clean/soiled). A separate intercom system shall be furnished and installed.

A. Speakers shall be mounted throughout the textile care processing facility with separate volume controls in the following areas:

Location	Quantity
1. Soil Dock and Clean Dock (outside type speaker required)	2
2. Ladies Washroom	1
3. Men's Washroom	1
4. Washer Room	4
5. Soil Sort Area	3
6. Hand Fold Area	4
7. Finishing System Area	2
8. Lounge	1
9. Textile Care Manager's Office	1
10. Mechanical Room	2
11. Cart Wash Area	1
TOTAL:	22

B. A telephone type intercom system with minimum 200 watt amplifier with AM/FM stereo receiver and CD player shall be furnished and installed (within the textile care manager's office) and interfaced into the communication/intercom system. All components of the stereo/ amplifier/equalizer and CD system shall be of the same manufacturer. The system shall be housed in a wall mounted unit with shelves and lockable glass doors.

C. A desk microphone shall also be supplied for the intercom system.

Item 18 – Chemical Drum Washer:

Furnish and install one (1) each Drum washer. The drum washer shall be designed to wash and rinse the interior of chemical drums sized up to 55 gallons. The drum washer shall consist of:

- 1 The washer shall come complete with fused electrical controls.
- 2 The washer shall be of heavy duty construction.
- 3 The washer system shall include an internal tank recirculation system with a minimum 120 gallon reservoir.
- 4 Washes up to 55 gallon drums (steel or plastic).
- 5 Washes close top and open top drums (interior).
- 6 Can use water, detergent or solvent.
- 7 Stainless steel construction.
- 8 Fully adjustable wash timer.
- 9 Push button On/Off controls.
- 10 Pressure pump 20 GPM motor 7.5 hp.
- 11 Portability with a forklift truck.
- 12 Electrical control box NEMA 4 wash down.
- 3 Electrical Characteristics – 480 Volts – 3 phase – 60 htz.
- 14 Explosion prevention system.
- 15 Electric heaters (Hot Water)
- 16 High impact washer nozzle.

Item 19 – Wrapper & Tying Linen Sysem:

Furnish and install 1 system Fully Automatic, Intermittent Motion, Side Seal Wrapper and tying system. The wrapping and tying system shall consist of the following:

A. Plastic Wrap System:

1. Side seal with low maintenance, precision controlled sealing system, dual belt film handling and film edge guidance.
2. Heavy-duty product conveyors with nose roller idler, 2 ply food grade belts, AC frequency drives and motors with selectable soft start/stop Variable speed 20' to 100' p/m.
3. Speed sensing powered film feed and scrap wind-up. Automatically adjusts speeds to match demand, providing uniform tension on film unwind and scrap wind-up.
4. Adjustable cross seal jaw opening up to 16". Electronic restriction of opening.
5. Programmable Logic Controller (PLC) with a L.E.D. Operator Control Panel. Seal temperature controllers integrated into PLC. The operator control panel provides ten (10) memory locations to save product set-ups.
6. Hand cranks and sliding in-feed conveyor for ease of adjustment of mechanical changes. Scales on mechanical adjustments allow operators to easily return to prior set-ups.
7. Film support bar with air injection system.
8. Casters and leveling legs providing adjustable conveyor height from 34" to 36".
9. Separator bar providing powered separation of center-folded film.
10. Wrapper Integration Relay.
11. Side Seal Deflector.
12. Heavy Duty In-feed Conveyor Rollers.
13. Small Diameter Take-up Roller (Infeed).
14. Product Bridge at In-feed Conveyor.
15. Scrap reel "full" detection and film roll "run out" detection.
16. Light Tower Warning System to alert Operator of film "run out" and scrap reel "full".
17. Film Plow support brackets with adjustment.
18. Static hole Burner System.
19. Special Faceplate.
20. Maximum Package size: 20" wide, 14" high and infinite length.
21. Minimum Package size: 2" wide, 5" long (2" with optional closing conveyor).
22. Bundles per minute: Up to 15 B/P/M dependent on product size, stability and set-up.
23. Electrical: 120 Volt, 15 amps.
24. Pneumatics: 80 PSI.
25. Machine size: 144" long, 53" wide, and 60" high Weight: 2,500 lbs.

Shrink Tunnel with the following standard features:

1. 22" wide, 20" high chamber opening, 6' Chamber length.
2. Variable speed conveyor.
3. 8' Conveyor length with Teflon Mesh belt.
4. Top (3) and Bottom (3) Calrod Heaters, each with dual speed fans.
5. Product viewing window with back lighted chamber for easy tunnel set-up.
6. Automatic "cool down" control to delay conveyor and blower stop until tunnel temperature has dropped to an acceptable level.
7. Digital temperature controller with selectable PID or ON/OFF control.
8. High temperatures limit safety with automatic reset.
9. Casters and adjustable legs. Height adjustment 31" to 35".

B. Tying Machine with the following features:

1. 6.5" tandem spread
2. Pneumatic bundle transfer.
3. Pneumatic compression.
4. Exit belt for discharge after tying.
5. Fully enclosed with access doors and safety switches.
6. Dual flow tying arms for cotton twine or poly-tape tying material.

7. PLC and photo eye controlled.
8. Custom designed bi-fold door.
9. Operator interface.
10. Bypass switch for non-tied product.
11. 120V/1ph/60Hz.
12. Operating air pressure 100 PSI
13. Rate: Capable of Tying up to 12 bundles per minute.
14. Bundle height: 3" minimum and 11" maximum.
15. Bundle width: 6" minimum and 20" maximum.
16. Bundle length: 11" minimum and 30" maximum.

C Tying machine with the following features:

1. Pneumatic Compression
2. Plexiglas enclosure with access door & safety switch
3. Vacuum Tail Removal System (VTR) with air pressure regulator
4. In-feed & Exit adjustable bed height: 30 inches (+/- 2 inches)
5. Tying Material: 8ply cotton twine
6. Bundle length: 10.5" minimum and 26" maximum
7. Bundle width: 6" minimum and 12" maximum
8. Bundle height: 3" minimum and 11" maximum
9. 6.5" Spread Tying arms
10. Power: 110V
11. Operating Air: 80psi.

D Traffic Control Master with the following features:

1. Bundle control system
2. Motor control interfacing
3. Bundle detection sensors
4. Manual/Auto/Off selector switches and lighted e-stop – located on operator panel
5. Required 2 - 120V/1ph/60Hz/20Amp isolated power feed circuits

Mainline Conveyor with the following features:

1. Motor and starter
2. Illuminated emergency stop buttons.
3. Manual/Auto/Off selector switch - located on operator panel
4. 35" tall (top of belt)
5. 24" belt width
6. 60FPM belt speed
7. 230V/3ph/60Hz

90 Degree Curve Belt Conveyor with the following features:

1. End drive.
2. Conical end pulleys.
3. Variable speed drive.
4. 120V/1ph/60Hz.
5. 35" conveyor height,
6. 24" wide belt
7. 50" radius (to outside of belt)

Merge Conveyor for 90 Degree Transfer with the following features:

1. End roller drive
2. Small diameter nose over transfer rollers
3. Variable speed drive
4. Manual/Auto/Off selector switch – located on operator panel
5. Transfer fingers
6. 120V/1ph/60Hz

7. Adjustable conveyor height
8. 5 – 2” wide belts

Incline conveyors with the following features:

1. DC motor drive
2. Transfer fingers
3. Split high grip belts
4. Small diameter nose over transfer rollers
5. 5’ length
6. 8” in-feed height
7. 25” discharge height
8. 21.5” wide bed
9. Variable belt speed

Accumulation Conveyor with the following standard features:

1. Product end stop
2. Variable Roller speed
3. PLC controlled with photo sensor enable and back up logic
4. Start and Stop button
5. Manual/Auto/Off selector switch
6. Illuminated emergency stop buttons
7. 120V/1ph/60Hz
8. 10’ long
9. 35” wide frame
10. 32” wide white PVC rollers
11. 3’ drive roller section

Line Shaft Conveyor with the following features:

1. Chain-driven drive shaft
2. Urethane belts between drive spools and rollers
3. Galvanized rollers
4. Variable speed drive
5. Manual/Off selector switch - located on operator panel
6. 24” wide between frame
7. 230V/3ph/60Hz

90 Degree Line Shaft Conveyor with the following features:

1. 36” inside radius
2. Chain-driven drive shaft
3. Urethane belts between drive spools and rollers
4. Galvanized rollers
5. Slaved to Straight Line Shaft Conveyor
6. 24” wide between frame

ATTACHMENT 3

List of construction clauses (Davis Bacon, Copeland Act, etc.)

1. 52.222-1 NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (FEB 1997)

If the Contractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay the timely performance of this contract, the Contractor shall immediately give notice, including all relevant information, to the Contracting Officer.

2. 52.222-6 Davis-Bacon Act (July 2005)

(a) Definition.—“Site of the work”—

(1) Means—

(i) The primary site of the work. The physical place or places where the construction called for in the contract will remain when work on it is completed; and

(ii) The secondary site of the work, if any. Any other site where a significant portion of the building or work is constructed, provided that such site is—

(A) Located in the United States; and

(B) Established specifically for the performance of the contract or project;

(2) Except as provided in paragraph (3) of this definition, includes any fabrication plants, mobile factories, batch plants, borrow pits, job headquarters, tool yards, etc., provided—

(i) They are dedicated exclusively, or nearly so, to performance of the contract or project; and

(ii) They are adjacent or virtually adjacent to the “primary site of the work” as defined in paragraph (a)(1)(i), or the “secondary site of the work” as defined in paragraph (a)(1)(ii) of this definition;

(3) Does not include permanent home offices, branch plant establishments, fabrication plants, or tool yards of a Contractor or subcontractor whose locations and continuance in operation are determined wholly without regard to a particular Federal contract or project. In addition, fabrication plants, batch plants, borrow pits, job headquarters, yards, etc., of a commercial or material supplier which are established by a supplier of materials for the project before opening of bids and not on the Project site, are not included in the “site of the work.” Such permanent, previously established facilities are not a part of the “site of the work” even if the operations for a period of time may be dedicated exclusively or nearly so, to the performance of a contract.

(b)(1) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, or as may be incorporated for a secondary site of the work, regardless of any contractual relationship which may be alleged to exist between the Contractor and such laborers and mechanics. Any wage determination incorporated for a secondary site of the work shall be effective from the first day on which work under the contract was performed at that site and shall be incorporated without any adjustment in contract price or estimated cost. Laborers employed by the construction Contractor or construction subcontractor that are transporting portions of the building or work between the secondary site of the work and the primary site of the work shall be paid in accordance with the wage determination applicable to the primary site of the work.

(2) Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (e) of this clause; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such period.

(3) Such laborers and mechanics shall be paid not less than the appropriate wage rate and fringe benefits in the wage determination for the classification of work actually performed, without regard to skill, except as provided in the clause entitled Apprentices and Trainees. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein; provided that the employer’s payroll records accurately set forth the time spent in each classification in which work is performed.

(4) The wage determination (including any additional classifications and wage rates conformed under paragraph (c) of this clause) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the Contractor and its subcontractors at the primary site of the work and the secondary site of the work, if any, in a prominent and accessible place where it can be easily seen by the workers.

(c)(1) The Contracting Officer shall require that any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The Contracting Officer shall approve an additional classification and wage rate and fringe benefits therefore only when all the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination.

(ii) The classification is utilized in the area by the construction industry.

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the Contracting Officer agree on the classification and wage rate (including the amount designated for fringe benefits, where appropriate), a report of the action taken shall be sent by the Contracting Officer to the Administrator of the:

Wage and Hour Division

Employment Standards Administration

U.S. Department of Labor

Washington, DC 20210

The Administrator or an authorized representative will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the Contracting Officer or will notify the Contracting Officer within the 30-day period that additional time is necessary.

(3) In the event the Contractor, the laborers or mechanics to be employed in the classification, or their representatives, and the Contracting Officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the Contracting Officer shall refer the questions, including the views of all interested parties and the recommendation of the Contracting Officer, to the Administrator of the Wage and Hour Division for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the Contracting Officer or will notify the Contracting Officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits, where appropriate) determined pursuant to paragraphs (c)(2) and (c)(3) of this clause shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(d) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the Contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(e) If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program; provided, That the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

3. 52.222-5 DAVIS-BACON ACT—SECONDARY SITE OF THE WORK (JULY 2005)

(a)(1) The offeror shall notify the Government if the offeror intends to perform work at any secondary site of the work, as defined in paragraph (a)(1)(ii) of the FAR clause at 52.222-6, Davis-Bacon Act, of this solicitation.

(2) If the offeror is unsure if a planned work site satisfies the criteria for a secondary site of the work, the offeror shall request a determination from the Contracting Officer.

(b)(1) If the wage determination provided by the Government for work at the primary site of the work is not applicable to the secondary site of the work, the offeror shall request a wage determination from the Contracting Officer.

(2) The due date for receipt of offers will not be extended as a result of an offeror's request for a wage determination for a secondary site of the work.

4. 52.222-7 Withholding of Funds (Feb 1988)

The Contracting Officer shall, upon his or her own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the Contractor under this contract or any other Federal contract with the same Prime Contractor, or any other federally assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same Prime Contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any subcontractor the full amount of wages required by the contract. In the

event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the Contracting Officer may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

5. 52.222-8 Payrolls and Basic Records (June 2010)

(a) Payrolls and basic records relating thereto shall be maintained by the Contractor during the course of the work and preserved for a period of 3 years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made, and actual wages paid. Whenever the Secretary of Labor has found, under paragraph (d) of the clause entitled Davis-Bacon Act, that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the Contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(b)(1) The Contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Contracting Officer. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under paragraph (a) of this clause, except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be obtained from the U.S. Department of Labor Wage and Hour Division website at <http://www.dol.gov/whd/forms/wh347.pdf>. The Prime Contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the Contracting Officer, the Contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a Prime Contractor to require a subcontractor to provide addresses and social security numbers to the Prime Contractor for its own records, without weekly submission to the Contracting Officer.

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify—

(i) That the payroll for the payroll period contains the information required to be maintained under paragraph (a) of this clause and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in the Regulations, 29 CFR Part 3; and

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (b)(2) of this clause.

(4) The falsification of any of the certifications in this clause may subject the Contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 3729 of Title 31 of the United States Code.

(c) The Contractor or subcontractor shall make the records required under paragraph (a) of this clause available for inspection, copying, or transcription by the Contracting Officer or authorized representatives of the Contracting Officer or the Department of Labor. The Contractor or subcontractor shall permit the Contracting Officer or representatives of the Contracting Officer or the Department of Labor to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit required records or to make them available, the

Contracting Officer may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

6. 52.222-9 Apprentices and Trainees (July 2005)

(a) Apprentices.

(1) An apprentice will be permitted to work at less than the predetermined rate for the work performed when employed—

(i) Pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S.

Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer, and Labor Services (OATELS) or with a State Apprenticeship Agency recognized by the OATELS; or

(ii) In the first 90 days of probationary employment as an apprentice in such an apprenticeship program, even though not individually registered in the program, if certified by the OATELS or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

(2) The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the Contractor as to the entire work force under the registered program.

(3) Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in paragraph (a)(1) of this clause, shall be paid not less than the applicable wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(4) Where a Contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the Contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination.

(5) Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

(6) In the event OATELS, or a State Apprenticeship Agency recognized by OATELS, withdraws approval of an apprenticeship program, the Contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(b) Trainees.

(1) Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer, and Labor Services (OATELS). The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by OATELS.

(2) Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed in the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate in the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the OATELS shall be paid not less than the applicable wage rate in the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate in the wage determination for the work actually performed.

(3) In the event OATELS withdraws approval of a training program, the Contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(c) Equal employment opportunity. The utilization of apprentices, trainees, and journeymen under this clause shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.

7. 52.222-10 Compliance with Copeland Act Requirements (Feb 1988)

The Contractor shall comply with the requirements of 29 CFR Part 3, which are hereby incorporated by reference in this contract.

8. 52.222-11 Subcontracts (Labor Standards) (July 2005)

(a) Definition. "Construction, alteration or repair," as used in this clause, means all types of work done by laborers and mechanics employed by the construction Contractor or construction subcontractor on a particular building or work at the site thereof, including without limitation—

- (1) Altering, remodeling, installation (if appropriate) on the site of the work of items fabricated off-site;
- (2) Painting and decorating;
- (3) Manufacturing or furnishing of materials, articles, supplies, or equipment on the site of the building or work;
- (4) Transportation of materials and supplies between the site of the work within the meaning of paragraphs (a)(1)(i) and (ii) of the "site of the work" as defined in the FAR clause at 52.222-6, Davis-Bacon Act of this contract, and a facility which is dedicated to the construction of the building or work and is deemed part of the site of the work within the meaning of paragraph (2) of the "site of work" definition; and
- (5) Transportation of portions of the building or work between a secondary site where a significant portion of the building or work is constructed, which is part of the "site of the work" definition in paragraph (a)(1)(ii) of the FAR clause at 52.222-6, Davis-Bacon Act, and the physical place or places where the building or work will remain (paragraph (a)(1)(i) of the FAR clause at 52.222-6, in the "site of the work" definition).

(b) The Contractor shall insert in any subcontracts for construction, alterations and repairs within the United States the clauses entitled—

- (1) Davis-Bacon Act;
- (2) Contract Work Hours and Safety Standards Act—Overtime Compensation (if the clause is included in this contract);
- (3) Apprentices and Trainees;
- (4) Payrolls and Basic Records;
- (5) Compliance with Copeland Act Requirements;
- (6) Withholding of Funds;
- (7) Subcontracts (Labor Standards);
- (8) Contract Termination—Debarment;
- (9) Disputes Concerning Labor Standards;
- (10) Compliance with Davis-Bacon and Related Act Regulations; and
- (11) Certification of Eligibility.

(c) The prime Contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor performing construction within the United States with all the contract clauses cited in paragraph (b).

(d)(1) Within 14 days after award of the contract, the Contractor shall deliver to the Contracting Officer a completed Standard Form (SF) 1413, Statement and Acknowledgment, for each subcontract for construction within the United States, including the subcontractor's signed and dated acknowledgment that the clauses set forth in paragraph (b) of this clause have been included in the subcontract.

(2) Within 14 days after the award of any subsequently awarded subcontract the Contractor shall deliver to the Contracting Officer an updated completed SF 1413 for such additional subcontract.

(e) The Contractor shall insert the substance of this clause, including this paragraph (e) in all subcontracts for construction within the United States.

9. 52.222-12 CONTRACT TERMINATION—DEBARMENT (FEB 1988)

A breach of the contract clauses entitled Davis-Bacon Act, Contract Work Hours and Safety Standards Act—Overtime Compensation, Apprentices and Trainees, Payrolls and Basic Records, Compliance with Copeland Act Requirements, Subcontracts (Labor Standards), Compliance with Davis-Bacon and Related Act Regulations, or Certification of Eligibility may be grounds for termination of the contract, and for debarment as a Contractor and subcontractor as provided in 29 CFR 5.12.

10. 52.222-13 Compliance with Davis-Bacon and Related Act Regulations (Feb 1988)

All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are hereby incorporated by reference in this contract.

11. 52.222-14 Disputes Concerning Labor Standards (Feb 1988)

The United States Department of Labor has set forth in 29 CFR parts 5, 6, and 7 procedures for resolving disputes concerning labor standards requirements. Such disputes shall be resolved in accordance with those procedures and not the Disputes clause of this contract. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

12. 52.222-15 Certification of Eligibility (Feb 1988)

(a) By entering into this contract, the Contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the Contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(b) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(c) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

13. 52.222-16 Approval of Wage Rates (Feb 1988)

All straight time wage rates, and overtime rates based thereon, for laborers and mechanics engaged in work under this contract must be submitted for approval in writing by the head of the contracting activity or a representative expressly designated for this purpose, if the straight time wages exceed the rates for corresponding classifications contained in the applicable Davis-Bacon Act minimum wage determination included in the contract. Any amount paid by the Contractor to any laborer or mechanic in excess of the agency approved wage rate shall be at the expense of the Contractor and shall not be reimbursed by the Government. If the Government refuses to authorize the use of the overtime, the Contractor is not released from the obligation to pay employees at the required overtime rates for any overtime actually worked.

14. 52.222-19 Child Labor—Cooperation with Authorities and Remedies (Mar 2012)

(a) Applicability. This clause does not apply to the extent that the Contractor is supplying end products mined, produced, or manufactured in—

(1) Canada, and the anticipated value of the acquisition is \$25,000 or more;

(2) Israel, and the anticipated value of the acquisition is \$50,000 or more;

(3) Mexico, and the anticipated value of the acquisition is \$77,494 or more; or

(4) Armenia, Aruba, Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hong Kong, Hungary, Iceland, Ireland, Italy, Japan, Korea, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Taiwan, or the United Kingdom and the anticipated value of the acquisition is \$202,000 or more.

(b) Cooperation with Authorities. To enforce the laws prohibiting the manufacture or importation of products mined, produced, or manufactured by forced or indentured child labor, authorized officials may need to conduct investigations to determine whether forced or indentured child labor was used to mine, produce, or manufacture any product furnished under this contract. If the solicitation includes the provision 52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products, or the equivalent at 52.212-3(i), the Contractor agrees to cooperate fully with authorized officials of the contracting agency, the Department of the Treasury, or the Department of Justice by providing reasonable access to records, documents, persons, or premises upon reasonable request by the authorized officials.

(c) Violations. The Government may impose remedies set forth in paragraph (d) for the following violations:

(1) The Contractor has submitted a false certification regarding knowledge of the use of forced or indentured child labor for listed end products.

(2) The Contractor has failed to cooperate, if required, in accordance with paragraph (b) of this clause, with an investigation of the use of forced or indentured child labor by an Inspector General, Attorney General, or the Secretary of the Treasury.

(3) The Contractor uses forced or indentured child labor in its mining, production, or manufacturing processes.

(4) The Contractor has furnished under the contract end products or components that have been mined, produced, or manufactured wholly or in part by forced or indentured child labor. (The Government will not pursue remedies at paragraph (d)(2) or paragraph (d)(3) of this clause unless sufficient evidence indicates that the Contractor knew of the violation.)

(d) Remedies.

- (1) The Contracting Officer may terminate the contract.
- (2) The suspending official may suspend the Contractor in accordance with procedures in FAR Subpart 9.4.
- (3) The debarring official may debar the Contractor for a period not to exceed 3 years in accordance with the procedures in FAR Subpart 9.4.

15. 52.236-9 Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements (APR 1984)

- (a) The Contractor shall preserve and protect all structures, equipment, and vegetation (such as trees, shrubs, and grass) on or adjacent to the work site, which are not to be removed and which do not unreasonably interfere with the work required under this contract. The Contractor shall only remove trees when specifically authorized to do so, and shall avoid damaging vegetation that will remain in place. If any limbs or branches of trees are broken during contract performance, or by the careless operation of equipment, or by workmen, the Contractor shall trim those limbs or branches with a clean cut and paint the cut with a tree-pruning compound as directed by the Contracting Officer.
- (b) The Contractor shall protect from damage all existing improvements and utilities (1) at or near the work site, and (2) on adjacent property of a third party, the locations of which are made known to or should be known by the Contractor. The Contractor shall repair any damage to those facilities, including those that are the property of a third party, resulting from failure to comply with the requirements of this contract or failure to exercise reasonable care in performing the work. If the Contractor fails or refuses to repair the damage promptly, the Contracting Officer may have the necessary work performed and charge the cost to the Contractor.

ATTACHMENT 4**Wage Rate Determination**

General Decision Number: TX130001 04/26/2013 TX1

Superseded General Decision Number: TX20120001

State: Texas

Construction Type: Building

County: McLennan County in Texas.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes and apartments up to and including 4 stories).

Modification Number Publication Date

0 01/04/2013

1 03/29/2013

2 04/12/2013

3 04/26/2013

ASBE0021-005 05/01/2012

	Rates	Fringes
ASBESTOS WORKERS/MECHANICAL INSULATORS.....	\$ 20.67	7.15

ELEC0072-001 11/22/2012

	Rates	Fringes
CABLE SPLICER.....	\$ 25.05	4.70
ELECTRICIAN.....	\$ 24.00	4%+6.75

ELEV0021-005 01/01/2013

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 36.44	25.185+a

FOOTNOTE: A. 6% under 5 years based on regular hourly rate for all hours worked. 8% over 5 years based on regular hourly rate for all hours worked.
New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and Veterans Day.

IRON0482-001 06/01/2012

	Rates	Fringes
IRONWORKER.....	\$ 20.55	4.40

* PLUM0529-001 04/01/2013

	Rates	Fringes
Plumbers and Pipefitters.....	\$ 23.57	8.71

SUTX1990- 027 02/12/1990

	Rates	Fringes
Acoustical Ceiling Installer.....	\$ 9.05	

Air Conditioning & Heating

Mechanic.....\$ 8.90

Asphalt Heater Operator
INCIDENTAL PAVING &
UTILITIES.....\$ 7.25

BRICKLAYER.....\$ 12.21

CARPENTER.....\$ 10.91
INCIDENTAL PAVING &
UTILITIES.....\$ 7.45

CEMENT MASON/CONCRETE FINISHER...\$ 10.00

Concrete Finisher
(Structures)
INCIDENTAL PAVING &
UTILITIES.....\$ 7.25

Concrete Rubber
INCIDENTAL PAVING &
UTILITIES.....\$ 7.25

Drywall Installer.....\$ 11.98

FLOOR LAYER: Carpet.....\$ 8.47

Form Builder (Structures)
INCIDENTAL PAVING &
UTILITIES.....\$ 7.25

Form Setter
INCIDENTAL PAVING &
UTILITIES
Paving & Curb.....\$ 7.25
Structures.....\$ 7.25

GLAZIER.....\$ 9.20

Insulation Installer (Batt &
Blown).....\$ 7.25

Laborer, common
INCIDENTAL PAVING &
UTILITIES.....\$ 7.25

Laborer: Asphalt Raker
INCIDENTAL PAVING &
UTILITIES.....\$ 7.25

Laborers:
Mason Tenders.....\$ 7.25
Plaster Tenders.....\$ 7.25
Unskilled.....\$ 7.25

Laborer-Utility
INCIDENTAL PAVING &
UTILITIES.....\$ 7.25

LATHER.....\$ 13.38

MECHANIC (Undefined)

INCIDENTAL PAVING &
UTILITIES.....\$ 7.95

PAINTER.....\$ 8.47

Pipelayer

INCIDENTAL PAVING &
UTILITIES.....\$ 7.25
Con. & Clay.....\$ 7.25

PLASTERER.....\$ 12.78

PLUMBER

INCIDENTAL PAVING &
UTILITIES

Over 45 miles from
McLennan Co. Courthouse.....\$ 15.69 1.61
Within 45 miles of the
McLennan Co. Courthouse
including the towns of
Temple & Belton.....\$ 14.19 1.61

Power equipment operators:

Backhoes.....\$ 7.75
Blade Operator.....\$ 9.05
Cranes.....\$ 10.43
Drillers.....\$ 10.35
INCIDENTAL PAVING &
UTILITIES
Asphalt Distributor.....\$ 7.25
Asphalt Paving Machine.....\$ 7.25
Broom or Sweeper Operator..\$ 7.25
Bulldozer 150 HP & Less.....\$ 7.25
Bulldozer Over 150 HP.....\$ 7.25
Crane, Clamshell,
Backhoe, Derrick,
Dragline, Shovel (1 1/2
CY & Over).....\$ 8.05
Crane, Clamshell,
Backhoe, Derrick,
Dragline, Shovel, (less
than 1 1/2 CY).....\$ 7.25
Foundation Drill Operator
(Truck Mounted).....\$ 8.65
Front End Loader (2 1/2
CY & Less).....\$ 7.25
Front End Loader (Over 2
1/2 CY).....\$ 7.45
Motor Grader Operator

Fine Grade.....	\$ 8.30
Motor Grader Operator.....	\$ 7.55
Roller, Pneumatic (Self-propelled).....	\$ 7.25
Roller, Steel Wheel (Other-Flat Wheel or Tamping).....	\$ 7.25
Roller, Steel Wheel (Plant-Mix Pavement).....	\$ 7.25
Scrapers (17 CY & Less).....	\$ 7.25
Scrapers (Over 17 CY).....	\$ 7.25
Sideboom.....	\$ 7.25
Tractor (Crawler Type) 150 HP & Less.....	\$ 7.25
Tractor (Crawler Type) over 150 HP.....	\$ 7.25
Tractor (Pneumatic) 80 HP & Less.....	\$ 7.25
Tractor (Pneumatic) over 80 HP.....	\$ 7.25
Travelling Mixer.....	\$ 7.25
Loaders.....	\$ 7.66
Reinforcing Steel Setter (STRUCTURES)	
INCIDENTAL PAVING & UTILITIES.....	\$ 7.25
ROOFER.....	\$ 8.44
Servicer	
INCIDENTAL PAVING & UTILITIES.....	\$ 7.25
Sheet metal worker.....	\$ 12.01
SIGN ERECTOR	
INCIDENTAL PAVING & UTILITIES.....	\$ 7.25
TILE SETTER.....	\$ 11.63
TRUCK DRIVER.....	\$ 7.25
Truck drivers:	
INCIDENTAL PAVING & UTILITIES	
Single Axle, Light.....	\$ 7.25
Tandem Axle or Semi-trailer.....	\$ 7.25
WELDER	
INCIDENTAL PAVING & UTILITIES.....	\$ 7.25

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters, PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rates.

0000/9999: weighted union wage rates will be published annually each January.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union majority rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION