

Spare Parts:

09 30 10 – Ceramic, Quarry, and Glass Tiling

1.8 Extra Materials

Supply an extra 2 percent of each type of tile used in clean and marked

09 51 00 – Acoustical Ceilings

1.8 Extra Materials

Furnish spare tiles, from the same lot as those installed, of each color at the rate of five tiles for each one thousand tiles installed.

09 62 38 – Static-Control Flooring

1.5 Extra Materials

Provide extra material from same dye lot for future maintenance. Provide a minimum percentage of total square yards of each flooring and base type, pattern, and color.

09 65 00 – Resilient Flooring

1.8 Extra Materials

Provide extra flooring material of each color and pattern at the rate of 5 tiles for each 1000 tiles and 5 square feet for each 1000 square feet of sheet flooring installed. Provide extra wall base material composed of 20 linear feet of each type, color and pattern. Package all extra materials in original properly marked containers bearing the manufacturer's name, brand name, pattern color name and number, production run, and handling instructions. Provide extra materials from the same lot as those installed. Leave extra stock at the site in location assigned by Contracting Officer.

09 65 66 – Resilient Athletic Flooring

1.8 Extra Materials

1.8.1 Floor Tiles

Furnish spare tiles of each color at the rate of 5 tiles for each 1000 tiles installed. Tiles must be from the same lot as those installed

09 68 00 – Carpeting

3.6.1 Extra Materials

Provide extra material from same dye lot consisting of uncut carpet tiles for future maintenance. Provide a minimum of three percent of total square yards of each carpet type, pattern, and color.

09 69 13 – Rigid Grid Access Flooring

1.3 Spare Parts

Furnish spare floor panels for each finish including bare panels for carpet tile, complete pedestal assemblies, and stringers at the rate of one for each 100 or fraction thereof required. Store extra stock in same manner and location as project materials. Provide extra carpet tile from same dye lot consisting of uncut tiles for future maintenance. Provide a minimum of three percent of total square yards of each carpet type, pattern, and color

09 90 00 Painting and Coatings

3.10 Waste Management

Set aside extra paint for future color matches or reuse by the Government.

11 24 29 – Fall Protection Systems

2.15 Harnesses

c. Provide two spare self-retracing lifeline/lanyards and three body harnesses

13 49 20.0010 – RFI/EMI Shielding

1.6.2 Extra Materials

1.6.2.1 Filters

Four extra EM power filter inserts and twelve extra signal and control filter inserts of each different type furnished on the project shall be furnished as a spare. Filters supporting the antennas shall be government furnished and installed. The governments should provide spare filters. Quantity TBD by government.

1.6.2.2 EM Shielded Doors

Furnish one set of finger stock and EM gaskets and bladder replacement kit (if used) for each hinged EM shielded door provided. In addition, provide one set of manufacturers recommended and Contracting Officer approved spare parts for EM shielded doors of each style installed.

1.6.2.3 Tools

Furnish one full set of tools that are required to maintain the doors and are not typically available from tool vendors. Furnish environmentally safe lubricants, cleaning solvents, or coatings in sufficient quantities to last for 6 months.

1.6.2.4 Special Tools

Provide one set of special tools, calibration devices, and instruments required for operation, calibration, and maintenance of the equipment as follows: SELDS Test Set

21 13 13 - Wet Pipe Sprinkler Systems, Fire Protection

1.4.1.4 Operating and Maintenance (O&M) Instructions

Submit spare parts data for each different item of material and equipment specified. The data must include a complete list of parts and supplies, and a list of parts recommended by the manufacturer to be replaced after 1-year and 3 years of service. Include a list of special tools and test equipment required for maintenance and testing of the products supplied

1.6 EXTRA MATERIALS

Spare sprinklers and wrench(es) must be provided as spare parts in accordance with NFPA 13.

2.7.1 Sprinkler Cabinet

Provide spare sprinklers in accordance with NFPA 13 and must be placed in a suitable metal or plastic cabinet of sufficient size to accommodate all the spare sprinklers and wrenches in designated locations. Spare sprinklers must be representative of, and in proportion to, the number of each type and temperature rating of the sprinklers installed as required by NFPA 13. At least one wrench of each type required must be provided.

21 13 16 - Dry Pipe Sprinkler Systems, Fire Protection

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23 52 00 – HEATING BOILERS

1.5 Extra Materials

Submit spare parts data for each different item of material and equipment specified, after approval of the detail drawings and no later than 2 months prior to the date of beneficial occupancy. Submit Detail Drawings consisting of equipment layout including installation details and electrical connection diagrams; combustion and safety control diagrams; ductwork layout showing the location of supports and hangers, typical hanger details, gauge reinforcement, reinforcement spacing rigidity classification, and static pressure and seal classifications; and piping layout showing the location of guides and anchors, the load imposed on each support or anchor (not required for radiant floor tubing), and typical support details. Include on the drawings any information required to demonstrate that the system has been coordinated and will properly function as a unit and to show equipment relationship to other parts of the work, including clearances required for operation and maintenance. Include in the data a complete list of parts and supplies, with current unit prices and source of supply, and a list of the parts recommended by the manufacturer to be replaced after 1 and 3 years of service.

2.12.2 Tube Brush

If a watertube boiler is being furnished, a water-driven tube cleaner with three rotary cutters and rotary wire brush complete with the necessary length of armored water hose, valves, and other appurtenances necessary for operation shall be provided. Tube cleaner and rotary brush shall be provided for each size of water tube in the boiler, with one extra set of cutters for each size cleaner. Necessary valves and fittings shall be provided to permit ready connection of the cleaner hose to a high-pressure pump for cold water supply to operate the cleaner.

2.12.3 Wrenches

Wrenches shall be provided as required for specialty fittings such as manholes, handholes, and cleanouts. One set of extra gaskets shall be provided for all manholes and handholes, for pump barrels, and other similar items of equipment. Gaskets shall be packaged and properly identified

23 81 00 - DECENTRALIZED UNITARY HVAC EQUIPMENT

3.7.1 Extra Materials

Submit spare parts data for each different item of equipment specified, after approval of detail drawings and not later than 2 months prior to the date of beneficial occupancy. Include in the data a complete list of parts and supplies, with current unit prices and source of supply, a recommended spare parts list for 1 year of operation, and a list of the parts recommended by the manufacturer to be replaced on a routine basis.

26 32 15.00- Engine-Generator Set Stationary 15-2500 Kw, With Auxiliaries

1.7.2 Maintenance Manual

d. list of spare parts for each piece of equipment and a complete list of materials and supplies needed for operation

1.6 Extra Materials

Provide two sets of special tools and two sets of filters required for maintenance. Special tools are those that only the manufacturer provides, for special purposes, or to reach otherwise inaccessible parts. One handset must be provided for each electronic governor when required to indicate and/or change governor response settings. Furnish 4 liters one gallon of identical paint used on engine-generator set in manufacturer's sealed container with each engine-generator set. Wrenches and tools specifically designed and required to work on the new equipment, which are not commercially available as standard mechanics' tools, must be furnished to the Contracting Officer. Provide proposed operating instructions for the engine-generator set and auxiliary equipment laminated between matte-surface thermoplastic sheets suitable for placement adjacent to corresponding equipment. After approval, install operating instructions where directed

26 33 53- Static Uninterruptible Power Supply (Ups)

1.4.2 Spare Parts

Furnish the following spare parts, of the same material and workmanship, meeting the same requirements, and interchangeable with the corresponding original parts.

- a. Fuses: Two of each type and rating.
- b. Circuit boards: One circuit board for each critical circuit.
- c. Air Filters: One set of filters, when used on the UPS unit.
- d. Special tools, calibration devices, and instruments required for operation, calibration, and maintenance of the equipment: One complete set

3.1.1 Control Cable

Install UPS control wiring in individual separate rigid steel conduits, unless connections are made between side-by-side matching cabinets of UPS. Tag control wires with numeric identification tags corresponding to the terminal strip location to where the wires are connected. In addition to manufacturers' requirements, **provide four additional spare conductors between UPS module and remote alarm panel in same conduit.** When routing control cables inside UPS module, maintain a minimum 6 inches separation from power cables.

26 42 13 -Galvanic (Sacrificial) Anode Cathodic Protection (Gacp) System

1.5.1 Spare Parts

After approval of shop drawings, furnish spare parts data for each different item of material and equipment specified. The data must include a complete list of parts, special tools, and supplies, with current unit prices and source of supply. After approval of shop drawings, furnish revised spare parts for any changes made from original submittal. One spare anode of each type must be furnished. In addition, supply information for material and equipment replacement for all other components of the complete system, including anodes, cables, splice kits and connectors, corrosion test stations, and any other components not listed above. Furnish one reference electrode on a hand reel with 350 feet of conductor, one digital voltmeter that can be used in the maintenance of this CP system. Demonstrate use of furnished equipment in actual tests during the training course. Provide a description of equipment of the pipe-to-soil protected structure and foreign structures at electrical isolation between the utility supplier and the facility piping.

1.5.2 Extra Materials

Furnish one reference electrode on a hand reel with 350 feet of conductor, one high-input-impedance digital multimeter that can be used in the maintenance of this CP system. Demonstrate use of furnished equipment in actual tests during the training course. Provide a description of equipment of the pipe-to-soil protected structure and foreign structures at electrical isolation between the utility supplier and the facility piping. Include a description of the equipment and measurement of the pipe-to-soil potentials, anode voltage, anode current and soil condition.

27 10 00 - Building Telecommunications Cabling System

2.4.3 Connector Blocks

Provide insulation displacement connector (IDC) Type 110 for Category 6 systems. Provide blocks for the number of horizontal and backbone cables terminated on the block plus 25 percent spare

2.4.5 Patch Panels

Provide ports for the number of horizontal and backbone cables terminated on the panel plus 25 percent spare. Provide pre-connectorized optical fiber and copper patch cords for patch panels. Provide patch cords, as complete assemblies, with matching connectors as specified. Provide fiber optic patch cables with crossover orientation in accordance with TIA-568.3. Patch cords shall meet minimum performance requirements specified in TIA-568.1, TIA-568.2 and TIA-568.3 for cables, cable length and hardware

3.1.6.2 Patch Panels

Patch panels shall be mounted in equipment cabinets racks with sufficient ports to accommodate the installed cable plant plus 25 percent spares

28 31 76- Interior Fire Alarm and Mass Notification System, Addressable

1.11.1 Spare Parts

Furnish the following spare parts in the manufacturers' original unopened containers:

- a. Five complete sets of system keys.
- b. Two of each type of fuse required by the system.
- c. One manual stations.
- d. Two of each type of detector installed.
- e. Two of each type of detector base and head installed.
- f. Two air sampling smoke detection system filter assemblies.
- g. Two of each type of audible and visual alarm device installed.
- h. One textual visual notification appliance.
- i. Two of each type of addressable monitor module installed.
- j. Two of each type of addressable control module installed.

33 52 40

2.3.1 Electric Valve Operator

- i. The actuator must be supplied with a start-up kit comprising installation instruction, electrical wiring diagram and spare cover, screws and seals