

STATEMENT OF WORK (SOW)
Provide and Install Air Compressor - Chelmsford CMOP

1. Summary: CMOP plans to install a new air compressor in the compressor room to become the main supply source for the production equipment. The existing compressors will remain in place as a contingency source. This contract is to provide and install the air compressor, with components, as well as install new electrical service.

2. Scope:

Contractor is responsible for all labor, equipment, tools, materials, parts, supplies, transportation, supervision, and any other items and services necessary. CMOP will allow the Contractor to utilize its scissor lift in lieu of renting one. If utilized, the CMOP scissor lift must be returned to its original state, clean and in working order.

Air Compressor:

- a. Provide and install one (1) Kaeser SFC 22S air compressor, or similar. The size is planned to handle the entire CMOP air capacity with one unit as well as allow for growth. It must be an oil flooded rotary screw compressor that is air cooled with a variable frequency drive. The 30 HP motor must be premium efficiency TEFC. The refrigerated dryer must be fully integrated. Refer to the installation data sheet.
- b. Provide and install a condensate treatment system and Eco-Drain to automatically remove condensate.
- c. Provide and install a 240 gallon vertical storage tank. The tank must be properly secured to the concrete flooring and include a 4", visible, pressure gauge.
- d. Provide a mechanism for heat recovery by including fabricated rigid ductwork for discharge air that can be utilized to heat the CMOP space. So the duct would include a damper that can be discharge to the exterior during cooling season and into occupied space during heating season. Duct size is shown on the installation data sheet. Exterior discharge location shall be turned down, and include a bird screen with anti-instrusion bars.
- e. All existing piping is black iron. All new piping shall be SmartPipe aluminum. Replace existing 1" black iron piping with 40mm SmartPipe aluminum. Tie-in the new compressor into the existing 2" black iron after the existing Ultra Air UA 201 dryer. All new equipment shall be valved for isolation and bypassing to perform maintenance.
- f. Equipment installation and start up shall be performed by manufacturer certified technicians. Commissioning shall be performed in accordance with the manufacturer requirements, to include testing all gauges and alarms. If certain devices were tested during the manufacturing process, the contractor shall provide that documentation.
- g. During the commissioning process, factory authorized personnel shall provide CMOP staff, one session, with 4 hours of operator and troubleshooting training.
- h. Provide one year of warranty for material and workmanship from the date of start up.

Electrical Service:

- a. Provide a 100A/3P circuit breaker in the main distribution panel, Electrical Room 059. The breaker type shall match existing manufacturer.
- b. Provide a 480V/3P/100A feed from the main distribution panel in the Electrical Room, 059, to the Compressor Room, 064. Refer to the building drawing and one-line diagram. Estimated horizontal distance is approximately 195 feet. Ceiling height is approximately 20-25 feet.

STATEMENT OF WORK (SOW)
Provide and Install Air Compressor - Chelmsford CMOP

- c. Provide a 480V /3P/100A cabinet in the Compressor Room located next to the existing panels. Panel shall match manufacturer of existing panels. Include arc flash labeling.
- d. Provide a 70A breaker in the panel.
- e. Provide a 70A disconnect adjacent to the panel.
- f. All circuits shall be copper in EMT, located along the same pathway as existing circuits, away from personnel and equipment.
- g. Properly label and identify all circuits, breakers, panels, and disconnects by name and source.
- h. The electrical contractor shall be licensed with the state of Massachusetts.
- i. All work shall comply with the local authority as well as NEC and OSHA.

Rebates:

The contractor will be responsible for coordinating the rebate application and documentation with Mass Save and CMOP. Refer to the 2016 Compressed Air Application enclosure. The rebate will be applied to the cost of the project, and is expected to be approximately \$6,000.

Maintenance Responsibility:

Recurring operations and maintenance for the air compressors will be the responsibility of CMOP. Electrical equipment will be the responsibility of the building owner.

Enclosures:

- a. Kaeser SFC 22S Installation Data Sheet in PDF



Kaeser SFC 22S
(Sept 2015)

- b. Chelmsford CMOP Floor Plan in PDF. CAD is available upon request.



Chelmsford CMOP -
Architectural (July 20

- c. Electrical On-line Diagram in PDF.



Chelmsford CMOP -
One-Line (April 2014)

- d. Mass Save 2016 Compressed Air Application New Construction Program



Mass Save 2016
Rebate App

Documentation: City permitting for CMOP records.

STATEMENT OF WORK (SOW)
Provide and Install Air Compressor - Chelmsford CMOP

Submittals: Provide submittals for the air compressor, breaker, panel, and disconnect prior to purchase in accordance with the specifications. Submittals shall be in electronic format and submitted to the VA Personnel listed below. VA shall respond within 5 days concurring with the planned product, or a detailed explanation if disapproved.

Information Systems Officer, Information Protection: Not Applicable.

Privacy Officer: The contractor will not have access to Patient Health Information (PHI) nor will they have the capability of accessing patient information during the services provided to the VA.

Safety Requirements: See enclosed specification.



Specification - Safety

Security: The CMOP is a secure location. All contractors shall comply with local policies and procedures. Contractors must wear badges at all times and be escorted while working in sensitive areas.

Place of Performance: 10 Industrial Avenue / Chelmsford, MA 01824

3. Specifications: Perform work in accordance with journeyman trade practices, municipality permitting requirements, and the enclosed specs.



Specification -
Electrical



Specification -
Plumbing

4. Work Hours & Outages: Work shall be scheduled with CMOP to limit the impact to production and staff during working hours. Typically, working hours are from 6:00 AM to 4:30 PM, Monday through Friday.

All outages shall be scheduled in advance. The tie-in shall be scheduled for after working hours, and not performed live. All work will need to be accomplished after working hours.

The contractor will be allocated space within the compressor room to store tools and materials as well as perform work.

5. Performance Period: The contractor shall provide CMOP with a project schedule. It is expected that the entire project shall be completed within 120 days of the Notice to Proceed, to include material ordering and mobilization as well as design and permitting.

6. Bid: Provide a bid utilizing local prevailing wages in accordance with the Davis-Bacon Act and WDOL.gov. Also, separate the bid by RS Means trade/division. Include permitting costs as necessary.

STATEMENT OF WORK (SOW)
Provide and Install Air Compressor - Chelmsford CMOP

7. VA Personnel:

Chelmsford POC:

Mike Graybeal, Facility Manager

10 Industrial Avenue / Chelmsford, MA 01824

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Contracting Officer:

Joetta Eagle

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