



ADDENDUM MEC-002

Project: Canadian Space Agency - Cleaning of the ventilation and distribution

Description: Modifications to specifications

Project no.: 2020-134-1012

Division: Mechanical

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1. This addendum forms an integral part of the original plans, specifications and contractual documents. Bidders shall make sure that the cost of this addendum is included in the bid amount.
2. Documents:
 - 2.1 Included documents:
 - 2.1.1 Specifications:
 - Section 23 01 31, page 4.
 - Section 23 05 00, pages 3 and 3a.
3. Description of work:
 - 3.1 See attached documents.
4. Clarification following questions from bidders:
 - 4.1 Cancellation of section 4.2 from Addendum MEC-001

- .2 For each system, submit the inspection report prior to carrying out the work for analysis to the Owner and the Engineer.
- .3 Submit the detailed video controlled cleaning plan following the inspection.
 - .1 Carry out a visual examination of the systems to be cleaned to be able to establish the type of work, tools and equipment required in order to perform the cleaning of the systems.
 - .2 Verify the accuracy of plans and specification.
 - ② .3 Cancelled.
 - .4 Make sure that the inspection plan clearly indicates the camera entry points.
 - .5 Attach photos of each insertion point allowing the analysis of the accumulation of dust in the ventilation ducts.
- .4 Provide the following number of camera entry points, depending on the type of ventilation system inspected:
 - .1 Air Handler Unit: two (2) points verification points in the system.
 - ① .2 Low pressure returns ducts: at least four (4) verification points, two (2) in the main branches and two (2) in the limit terminal runs upstream of the diffusers.
 - ① .3 Cold supply ducts: at least four (4) verification points, two (2) in the main branches and two (2) in the limit terminal runs upstream of the diffusers.
 - .4 Hot supply ducts: at least two (2) verification points.
 - .5 Exhaust ducts: at least two (2) verification points.
 - ① .6 Fresh air duct: at least two (2) verification points upstream of the ventilation system.
- .5 The inspection of the systems must not disturb the normal operations of the premises nor have an impact on the environment.

1.5 SUBMITTALS

- .1 Submit documents in accordance with section 01 00 10 – Mechanical and electrical general instructions.
- .2 Submit the detailed video controlled cleaning plan following a site visit.
 - .1 Ensure that the plan clearly indicates the sequence of operations, the camera and cleaning device insertion points, as well as the work calendar.
- .3 Product data:
 - .1 Submit the required data sheets, as well as the manufacturer documentation relating to antimicrobial agents used in the work. Data sheets must list the product characteristics, performance criteria and limitations.
 - .2 Submit, for antimicrobial agents and coatings, the MSDS required by WHMIS.



- .2 The following sections are included in the scope of the ventilation work and complement each other to form a whole.
 - .1 23 01 31 – Air duct cleaning for HVAC systems.
 - .2 23 05 00 – Common work results for HVAC.
 - .3 23 05 93 – Testing, adjusting and balancing for HVAC.
 - .4 23 07 13 – Duct insulation.
 - .5 23 31 13.01 – Metal Ducts – Low pressure to 500 Pa.
 - .6 23 33 00 – Air duct accessories.
- .3 Scope of work:
 - .1 Work included:
 - .1 The work includes, in general, labor, supply, and installation of all materials and equipment necessary for ventilation – air-conditioning work indicated on the drawings and in the specification.
 - .2 This work includes, but is not limited to:
 - .1 Inspection and cleaning of ventilation ducts according to the requirement of section 23 01 31 – Air duct cleaning for HVAC systems.
 - .2 All access doors required for inspection and cleaning.
 - .3 The insulation repair work required following the inspection and cleaning work.
 - .4 All tests.
 - .5 All balancing and adjustment of air quantities.
 - ② .1 In the case of ventilation duct cleaning work on a system, the complete balancing and adjustment of the air quantities of the ventilation network will be carried out once the cleaning work is completed.
 - ② .2 In the case that the system is not to be cleaned, the Contractor may proceed directly to the complete balancing and adjustment of air quantities.
 - ① .3 Access doors installed on exposed painted ventilation ducts must be painted the same color as the duct on which they are installed. This also applies where there is exposed external thermal insulation.
 - .1 Work included:
 - .1 The work includes, in general, labor, supply, and installation of all materials and equipment necessary for ventilation – air-conditioning work indicated on the drawings and in the specification.
 - .2 This work includes, but is not limited to:
 - .1 Inspection and cleaning of ventilation ducts according to the requirement of section 23 01 31 – Air duct cleaning for HVAC systems.
 - .2 All access doors required for inspection and cleaning.
 - .3 The insulation repair work required following the inspection and cleaning work.
 - .4 All tests.
 - .5 All balancing and adjustment of air quantities.
 - ② .1 In the case of ventilation duct cleaning work on a system, the complete balancing and adjustment of the air quantities of the ventilation network will be carried out once the cleaning work is completed.
 - ② .2 In the case that the system is not to be cleaned, the Contractor may proceed directly to the complete balancing and adjustment of air quantities.
 - ① .3 Access doors installed on exposed painted ventilation ducts must be painted the same color as the duct on which they are installed. This also applies where there is exposed external thermal insulation.
 - .4 Documents to provide:
 - .1 Provide the following documents:
 - .1 The certificates of approval from the concerned authorities.
 - .2 Shop drawings, device drawings, and coordination drawings.
 - .2 A full report of the results requested in the article "VENTILATION SYSTEMS' TAB REPORT" from the section 23 05 93 – Testing, adjusting and balancing for HVAC



- .5 Submissions – Prices to provide:
 - .1 Provide with the submission, a global inclusive price covering all the "VENTILATION – AIR-CONDITIONING" work.

Part 2 Product

2.1 NOT USED

- .1 Not Used.

