



# SUNSHINE COAST REGIONAL DISTRICT

ADDENDUM NO. # 4

Request for Proposal No. 19 384

Sunshine Coast Arena Chiller Replacement & Refrigeration Plant Upgrade

**Date: April 3, 2019**

This addendum forms part of the contract documents and shall be read, interpreted, and coordinated with all other parts. The costs of all work contained herein shall be included in the tender submission. The following revisions, clarifications, changes, additions, or deletions supersede the information contained in the original documents to the extent referenced and shall become part thereof:

Number of pages including attachments: 4 pages.

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Addendum #4

Contains a revised answer from addendum #3, to question 7 and additional requirements and specifications to provide additional pricing for the following, a price reduction to eliminate the external oil pot, requirement for separate additional price to do partial power upgrade and separate additional price to do the electrical engineering, design drawings and specifications for MCC upgrade.

**Item #1**

Contains revised answer from addendum #3, to question 7, How thick should the compressor housekeeping pad be?

From:

Answer:

6 inches with rebar reinforcement. The new housekeeping concrete pad shall be tied into the existing floor by drilling and installing rebar into the existing floor. Structural design or review is required.

To:

Answer:

6 inches with rebar reinforcement. The new housekeeping concrete pad shall be tied into the existing floor by drilling and installing rebar into the existing floor. Structural design or review is required.

If a concrete pad base is to be installed for the chiller package instead of a steel frame base, similar requirements are to be applied.

**Item #2**

Pricing request to provide a price reduction to eliminate the external oil pot

The bidders shall provide a price deduction to eliminate the external oil pot with a drip pan.

The related vent line (3/4" piping, related valves, and insulation), the oil drain line from the internal oil pot, and the pressure relief valve and individual RV line will be eliminated from the work scope.

The oil drain piping (one isolating valve, a deadman valve, and related oil drain pipe) shall be installed at the internal oil pot.

The internal oil pot shall be partially insulated.

**Item #3**

Contains a requirement to provide a separate additional price to do partial power upgrade in 2019 based on site meeting discussion.

The bidders shall provide a separate additional price to do partial power upgrade of the refrigeration plant to upgrade existing equipment and MCC to 575 volt. Pricing to include supply, install and commissioning.

The work includes but is not necessarily limited to the following:

- 1) The Contractor is responsible for providing necessary professional electrical engineering service for the related upgrade.
- 2) The Contractor is responsible for obtaining and paying the fees for refrigeration installation permit, electrical installation permit, and other necessary permits.
- 3) The Contractor is responsible for calling the electrical and other inspectors and paying all the fees for the inspections.
- 4) The new equipment, the existing equipment modification, the site installation, and the field wiring shall be CSA certified and in compliance with related electrical codes and TSBC regulations.
- 5) The Contractor is to provide a site modification service of the existing MCC to convert it from 480V/3Phase/60HZ power service to 575V/3Phase/60HZ.

The modification to include but not limited to the followings:

- New MCC Control Power Transformers (575V/120V) to provide 120V control powers for the refrigeration system and equipment
  - Compressor C-1 power breaker and starter  
Compressor C-2 power break and starter
- \* If overload cannot be adjusted to operate with 575 volt load or cannot be replaced separate from motor starter. Please provide an separate additional price for new soft starters installations.
- Under Floor Heating Glycol Pump breaker and starter confirmation. To be replaced if required.
  - Provide power feed to the Condenser Fan VFD

- Provide power feed to the cold brine pump VFD
- Power Factor Capacitors
- Related wiring, disconnects and switches required to complete 575 volt existing equipment and existing MCC upgrade
- Provide a thermal imaging test for the electrical contacts & the modified MCC.

6) The Contractor is to provide decommissioning of the existing 480Volt transformer and connect the 575 Volt power supply from the Hydro panel to the existing MCC.

7) To replace the following existing 480 Volt Motors to 575 Volt motors.

The replacement to include but not limited to the followings:

- Compressor C-2 60 HP Motor
- Under Floor Heating Glycol Pump Motor
- Condenser Fan Motor

All motors to be premium efficiency motors and match the Specifications 5.3.18.

8) To replace the existing 480 Volt remote installed condenser fan VFD to 575 Volt VFD C/W power feeder breaker.

Accepted Manufacturer: ABB

#### **Item #4**

Contains a requirement to provide a separate additional price to do the electrical engineering, design drawings and specifications for future MCC & control replacement and field wiring upgrade for the remaining 575V power upgrade of the refrigeration plant.

The work includes but is not necessarily limited to the following:

- 1) The Contractor shall hire an electrical engineer to provide professional electrical engineering design service for the future upgrade.
- 2) The ice plant electrical distribution review and design shall be included in the work scope.
- 3) Fault study, short circuit study, and arc flash study for the related electrical system of the new MCC and the ice plant shall be included in the work scope.
- 4) Provide design and specifications of the new MCC & control and related field wiring for the remaining 575Volts power upgrade of the refrigeration plant.
- 5) Provide tender assistance
  - a) Site meeting with bidders
  - b) Technical Q and A
  - c) Review of tenders received and assistance of tender evaluation
- 6) Provide construction administration
  - a) Shop drawing review and project coordination
  - b) Regular Inspections, reviews, and meetings, and reports
  - c) Final inspection and review with a deficiency list report
  - d) Confirmation and communication of deficiency correction
  - e) Contractor payment certifications
  - f) Project completion confirmation and substantial completion certification

g) Provide any required assurance letters.

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Addendum No. # 4 is issued prior to receipt of submission and shall form part of the contract documents. The revisions shall clarify the information contained in the original Proposal documents issued on March 15, 2019.

If you have any questions regarding the above, please contact the undersigned.

Gordon Rischaneck - Purchasing Officer  
Sunshine Coast Regional District