

**REQUEST FOR QUOTATION**  
**ICE BUILDER, AGRICULTURE INDUSTRIES – JONES FARM CPP**

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The New Jersey State Department of Corrections is seeking quotations to furnish and install a replacement ice builder at the DOC Agriculture Industries – Jones Farm CPP, 721 Bear Tavern Road, West Trenton, NJ 08625. Jones Farm is a minimum security correctional facility housing approximately 24 inmates. The Contractor will be required to relocate one operating ice builder, remove and dispose of the inoperable equipment off-site, furnish a replacement ice builder as described and install and make fully operational the replacement ice builder.

**I. BACKGROUND**

The Department of Corrections, Agriculture Industries maintains several dairy farms, which provide productive employment for inmates and produce milk/beverages for sale to State agencies. Utilizing commercial equipment owned by the Department, milk/beverages is processed and packaged into ½ pint and bulk containers. This equipment will be used to lower the temperature of the pasteurized milk, so the product can be packaged.

Due to age (purchased around 1995), exposure and utilization, the current ice builder has deteriorated to the point where replacement is warranted.

**II. SCOPE OF WORK**

The Contractor shall:

- Relocate the existing operable ice builder on site and remove the inoperable ice machine. Contractor shall dispose of the old inoperable unit, with the exception of any parts the facility determines to retain. Contractor shall properly cap all refrigeration and water lines, as needed.
- Furnish and install replacement ice builder, utilizing existing condensing unit, refrigerant and refrigerant piping, water circuitry piping, controls and control wiring as per specification.
- Provide fully operation, complete turnkey system; any errors or emissions are the responsibility of the contractor and shall be remediated without further compensation.
- Provide proper training at a minimum of a half day to approximately 2-3 employees on system operations of the ice builder.
- A **MANDATORY** site visit will be conducted at Jones Farm CPP on **March 31, 2016** for all interested vendors at 10:00 AM.

### **III. SPECIFICATIONS**

The following identifies detailed specifications as minimum requirements for the request. Any alternate item quoted shall be clearly identified and described within the bid for the State to confirm those variations as acceptable as approved equal. The bidder must validate and warrantee all machine components and accessories as original equipment manufacturer (OEM) or approved equal.

**Ice Builder** will have the capability to supply 10,000 lbs. of ice in a 12 hour period.

Ice Builder components to be supplied are the ice building tank and adjustable ice thickness control panel.

#### **Tank Construction**

The basic tank shall be constructed of 3/16" thick stainless steel.

#### **Insulation**

The unit shall be sufficiently insulated to minimize heat loss with a minimum of 2" rigid foam or approved equal.

#### **Covers**

Stainless steel sheet metal covers supplied are of overlapping, drip proof design with 2" foam insulation.

#### **Exterior Covering**

Exterior of the unit shall be sheathed in stainless steel for permanent weather resistance.

#### **Refrigerant Circuit**

The unit shall be equipped with stainless steel, serpentine 1 1/4" schedule 40 pipe coils, as a minimum. There shall be an individual thermal expansion valve for each coil. All coils shall be connected to liquid and suction headers with an individual liquid and an individual suction connection for each coil. The coil construction shall be so configured as to assure proper refrigerant distribution over the internal surfaces of the coil. Each coil shall be mounted on a stainless steel sheet to provide a secondary refrigeration surface, promote accelerated ice growth between the coil pipes during the storage phase, and to serve as a rigid coil support to eliminate possibility of fracture during shipment.

#### **Water Circuitry**

The unit shall have a fully controlled water flow circuit to provide long passage and long dwell time of water to ice. The design of this circuit shall be such that water flow over all ice surfaces is positive, assuring that there are no "dead" spots where the ice can bridge across. There shall be a minimum of 4" between the ice surfaces with the ice at rated 2 1/2" thickness. The water circuit shall also be so constructed as to provide agitation to the water. This agitation shall not require auxiliary devices requiring energy input. The water circuit shall be designed to provide for progressive ice melt-off so that effective utilization may be made of increasing amounts of the evaporator surface in a load-leveling installation.

**Control Compartment**

The unit shall have a compartment on one end which shall contain the refrigerant connections, thermal expansion valves and driers and the automatic ice thickness controls.

**Reverse Water Flow**

The ice water connections, overflow and drain shall be on the end opposite the refrigeration headers and expansion valves.

**Automatic Ice Thickness Control**

The automatic ice thickness control shall be securely mounted to the frame of the storage unit. They will be externally adjustable to provide for ice thickness of 1" - 3", as required.

**Temperature Gauges**

Temperature gauges, complete with Thermowells, monitor supply and return water temperatures, and shall be mounted on the chilled water inlet and chilled water outlet.

**Warranty**

Warranty for the ice builder tank and coils shall be in effect for a minimum of 5 years from date of final acceptance by the New Jersey Department of Corrections. This acceptance will be requested by the contractor and provided to the New Jersey Department of Corrections in writing.

Bidder shall provide a one year warranty on all parts and labor associated with the installation of the equipment. If the equipment shall malfunction within one year from date of acceptance by the New Jersey Department of corrections, the contractor is responsible for all parts and labor at no additional cost to the state.

**Brand/Model**

The ice builder is to be a Girton Model, or an approved equivalent. Bidders offering alternate brands or models must provide specifications, including diagrams, with the quotation. Equipment provided must physically fit into the area designated at the mandatory site visit.

**IV. ADDITIONAL REQUIREMENTS**

**Mandatory Site Visit**

Attendance at the site visit is required for vendors to submit quotations. Attendance at the site will be registered. Quotations from firms that did not attend the mandatory site visit will not be considered.

Attendees must call Mark Fournier, at (609) 292-4036 x5425 at least five days in advance to register for entry into the facility. A valid driver's license must be provided to the facility at the time of the visit.

**Delivery Date**

Delivery should be achieved within 16 weeks or less from receipt of purchase order. Indicate the estimated time frame for completion of the project, in days or weeks, from issuance of a purchase order by the State. This is to include removal of the existing ice builder, delivery and installation of the replacement ice builder, testing, and training of DOC personnel.

Please provide time frame for completion of the project (days/weeks) from the issuance of the purchase order in the space below.

➡ Time frame for completion of project: \_\_\_\_\_ days / weeks from issuance of order.

**Agency Request For Quotation**

Please include all requested information on the *Agency Request For Quotation* form, including, but not limited to, the date to which prices are firm, total cost, and the vendor’s signature.

**State Registration/Documentation Requirements**

The following documents are included and must be completed, signed where indicated and submitted upon award of the purchase order:

- Standard Terms and Conditions Delegated Purchasing Authority
- Contractor Certification and Disclosure of Political Contributions, P.L. 2005, Chapter 51
- Ownership Disclosure Form
- Disclosure of Investment Activities in Iran
- Source Disclosure Certification (EO129)
- MacBride Principles and Northern Ireland Act of 1989
- Affirmative Action Supplement/Affirmative Action Employee Information Report
- Set Off for State Tax form
- New Jersey Business Registration Certificate
- Proof of Insurance (ACORD form)

The forms are also available at the Treasury Division of Purchase and Property Website: <http://www.state.nj.us/treasury/purchase/forms.shtml> in the *Doing Business - Vendor/ Agency Forms* section, fill out “Consolidated DPA Forms Packet”.

Businesses must be registered with the Division of Revenue, of the Department of the Treasury. The NJ-REG process allows all businesses to register for all taxes and related liabilities to which a new business may be subject. Business registration forms and instructions are available at: <http://www.state.nj.us/njbgs/bgsclientreg.htm>

If the successful bidder is not currently registered on the State of New Jersey NJSTART vendor file, they must register at [njstart@treas.nj.gov](mailto:njstart@treas.nj.gov).