

**GREENWICH PUBLIC SCHOOLS**  
**Purchasing Department**  
**290 Greenwich Avenue**  
**Greenwich, Connecticut 06830**  
**(203) 625-7411**  
**eugene\_watts@greenwich.k12.ct.us**

**EUGENE H. WATTS**  
**Director of Purchasing**

June 7, 2022

Dear Sir/Madam:

You are invited to submit a bid for Engine Driven Chillers the Greenwich Public School District. The attached bid specifications detail the requirements we are looking for.

Bidders are urged to read all documents carefully and fill out all information requested. Bids which are incomplete, obscure, or conditional, and which contain irregularities of any kind, will be subject to rejection for failure to comply strictly with these conditions.

Bids must be submitted on the schedule forms attached. All unit prices must be filled in and the cost sheet must be the first page of the submitted bid. Each bid must be submitted and clearly marked as (1) original and five (5) copies of the bid. Bidders must submit bids in a clear, concise and legible manner to permit proper evaluation of responsive bid. The cost sheet must be the first page of the submitted bid. Faxed or emailed bids will not be accepted however, hand delivered, mailed or overnight bids will be accepted Monday through Friday between the hours of 8:30am -12:00pm and 1:30 pm - 3:00pm at: Greenwich Public Schools 290 Greenwich Avenue Greenwich, CT 06831. Late bids will not be accepted.

The original bid and copies must be in a sealed envelope plainly marked with the Vendors name and address and the following information:

**Engine Driven Chillers Bid**  
**Opening Date: 6/21/22**  
**Opening Time: 10:30 AM**  
**Bid Number: 2373-22**

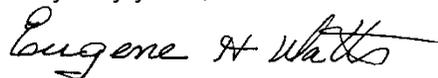
All responses are subject to change based on the status of the COVID 19 pandemic and Federal Ordinances.

The meeting for the Bid opening will be held remotely by telephone in real time. The details to join the meeting remotely are as follows:

**Dial-In by phone: 1 678-942-6516 PIN: 142 831 392#**

All Bidders and other interested people are invited to call in to hear Bid 2373-22 being read at 10:30 a.m.

Very truly yours,



---

Eugene H. Watts

**GREENWICH PUBLIC SCHOOLS  
GREENWICH, CT.**

**REQUEST FOR BID  
Engine Driven Chillers**

**1. Background**

The Town of Greenwich, CT is about 35 miles northeast of New York City and has a population of about 60,000 people. The Greenwich Public Schools enjoy a national reputation for excellence and have strong support from the community. Our fifteen public schools have a current enrollment of 9,000 students and consist of eleven elementary schools (K-5), three middle schools (6-8), and one comprehensive high school (9-12). Our district also offers some pre-K and alternative high school programs.

**2. Bid Evaluation Criteria:**

The following criteria guidelines will be used in analyzing and evaluating this Bid.

- Conformance to the requirements of this BID, i.e. conformance to Terms, Conditions and Scope of Work.
- Cost
- Item (s) must be in stock and ready to deliver no later than 6/30/22
- If additional Engine Driven Chillers are needed, the vendor must hold the price for 60 days
- Background on the firm.

**3. A narrative describing the approach to undertaking the scope of the work including:**

- a. Cost/service fee (overall cost to the Board of Education with all factors considered).

**4. Award of Contract:**

The contract will be awarded by the Board of Education to the qualified company or person at compensation determined to be fair and reasonable considering budgetary limitations, scope, complexity and the nature of goods and/or services.

This is a unit price for Natural gas-fired Engine Driven Chillers.

This agreement includes, but is not limited to, the supplying of all labor, material, equipment and supervision necessary and required to provide these services.

**5. Scope of Work**

Bidder shall furnish a unit price to manufacture chiller in accordance with specifications below, and deliver to Greenwich High School, 10 Hillside Road, Greenwich, CT.

Bid shall include unit price (including all taxes and delivery fees) as well as projected lead time for delivery at above destination.

## SECTION 236418: NATURAL GAS ENGINE-DRIVEN WATER CHILLERS

### PART 1 GENERAL

#### 1.1 SUMMARY

- A. This section includes design, performance criteria, refrigerant, controls, and installation requirements for factory-packaged natural-gas engine driven water chiller(s).

#### 1.2 QUALITY ASSURANCE

- A. Qualifications: Equipment manufacturer shall specialize in the manufacture of the products specified and have at least 20 years experience with the equipment and refrigerant offered.
- B. ANSI/ASHRAE – Safety Code for Mechanical Refrigeration
  1. ANSI/ASHRAE 90A
  2. ANSI/ ASME SEC 8
  3. ANSI/ UL 465
  4. ARI 550
- C. Regulatory Requirement: Comply with the codes and standards specified.
- D. Chiller manufacturer shall be experienced in the production of engine-driven chiller packages, with a minimum of 500 natural-gas engine driven chillers shipped to date.
- E. Chiller performance ratings shall be in accordance with *ARI Standard 550-92*.
- F. The chiller shall be ETL-listed, a nationally recognized independent testing laboratory. ETL listing shall be in compliance with the requirements of the Standard for Heat and Cooling Equipment as outlined in UL-1995 and the Performance & Safety Protocol Established by ANSI for Gas-Fired, Work Activated Air-Conditioning and Heat Pump Appliances (Internal Combustion), as outlined in ANSI Z21.40.2-1996.

#### 1.3 REGULATORY REQUIREMENT

- A. Conform to ARI 550 code for rating of screw chillers.
- B. Conform to ANSI/UL 465 code for construction of screw chillers.
- C. Conform to ANSI/ASME SEC 8 Boiler and Pressure Vessel Code for construction of screw chillers.
- D. Conform to ANSI/ASHRAE 15 for construction of screw chillers.

#### 1.4 SUBMITTALS

- A. Submit in accordance with provisions of Division 1.
- B. Shop drawings indicating components, assembly, dimensions, weights, and loadings, required clearances, and location and size of field connections. Indicate equipment, piping and connections, valves, strainers, and thermostatic valves required for complete system.
- C. Product data indicating rated capacities, weights, specialties and accessories, electrical requirements and wiring diagrams and factory statement confirming factory tests.
- D. Written certification that components of package not furnished by manufacturer have been selected in accordance with manufacturer's requirements.
- E. Manufacturer's Installation Instructions.
- F. Performance data indicating energy input versus cooling load output from 0 to 100 percent of full load at specified and minimum condenser water temperatures.
- G. Operation and Maintenance data, including start-up instructions, maintenance data, parts lists, controls, and accessories. Include trouble-shooting guide.

#### 1.5 FACTORY TESTING

- A. Each chiller shall undergo a factory run-test at full capacity, to ensure proper set-up and operation of all components.
- B. Factory testing shall be conducted on each complete chiller, including the final engines, compressors, vessels, and refrigeration components that will be installed onsite. Factory run-testing using partial assemblies, or components (such as vessels) other than those actual components to be installed in the field, or field run-testing in lieu of factory run-testing, shall not be acceptable. Tonnage shall be measured on the water side of the evaporator. Written certification shall be available from the factory.
- C. Piping within the confines of the system shall be tested in accordance with *ASHRAE Standard 15* and *ANSI B31.5 refrigeration piping code*.
- D. Cooler and Condenser shall include *ASME* "U" stamp and nameplate certifying compliance with *ASME Section VIII, Division 1* code for unfired pressure vessels.
- E. The entire chiller assembly shall be leak tested with dry nitrogen to 200 psig and the package shall be checked for leaks using *SNOOP Leak-Tec* or equal. After leak testing, the package shall be evacuated and charged with a full charge of R-134a refrigerant for shipment.

- F. The electrical system shall undergo a dielectric withstand test to 1200 volts for 1 second.

## 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Comply with manufacturer's installation instructions for rigging, unloading, and transporting units.
- B. Unit(s) shall be shipped to job site completely assembled, leak tested, and charged with refrigerant and compressor oil.
- C. Unit(s) shall not be shipped with any engine coolant or water in the heat exchangers.
- D. Unit(s) shall be shipped with a firmly attached metal nameplate containing the following information: manufacturer name, model number, serial number, refrigerant used, refrigerant charge, electrical requirements, gas requirement, customer flow requirements, and heat exchanger pressure drops (customer side).
- E. An ETL label shall also be affixed to the unit(s).
- F. Unit(s) shall be completely shrink-wrapped in plastic for protection from the elements during shipment. Unit shall not be stored outside.
- G. Unit(s) shall be riggable and installed with just four (4) points of contact.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Tecochill "DTx Series", by Tecogen, Waltham, MA.
- B. York *Millennium*.

### 2.2 MANUFACTURED UNITS

- A. Provide factory packaged and tested natural gas engine-driven liquid chiller. Each microprocessor-controlled chiller shall utilize not fewer than two (2) screw compressors, operating with Refrigerant-134a, each driven by a rich-burn type natural gas engine.
- B. Actual performance of each chiller shall be not less than as shown on equipment schedule on separate drawings and manufacturer's project-specific equipment submittal, including capacity in tons, flow rates, fuel input, and COP. Chiller performance ratings shall be in accordance with *ARI Standard 550-92*.
- C. Electrical requirement for each chiller shall be 208/230 volts, 4 kW, four-wire, single-phase, and 60-Hertz line current.

## 2.3 COMPRESSORS

- A. Each chiller shall be furnished with two (2) open-drive, single-screw compressors of the oil-injected type.
- B. Each compressor shall have the following characteristics:
  - 1. Input shaft shall be connected to the main rotor, which meshes with two (2) diametrically opposed star wheels (gate rotors).
  - 2. Housing shall be a single-piece casing, with removable side covers to give access for inspection and service without disturbance of associated pipework.
  - 3. Roller element bearings shall be used throughout.
  - 4. Main bearings shall have a minimum “L<sub>10</sub>” design life of 100,000 hours.
  - 5. Mechanical shaft seal shall consist of a carbon face, in rotating contact with a hardened steel (or similar material) ring. Seal shall remain flooded with oil during operation and shutdown of the compressor. Lubrication shall be provided to ensure proper cooling.
  - 6. Volume ratio shall be fixed at the factory at 1.8.
- C. For maximum part-load efficiency and simplicity, the capacity control of the compressor shall be accomplished by decreasing engine speed for continuous chiller unloading down to 14% capacity.
- D. The lubrication system for each compressor shall consist of the following components:
  - 1. The oil separator shall be of a horizontal-design, and also serve as an oil reservoir. Flow from each compressor discharge shall enter the separator at either end and be directed through a de-mister pad, where the oil shall be filtered out of the gas and fall to the sump below. The two streams of refrigerant gas shall join in the center and be discharged to the condenser.
  - 2. Three (3) 1200-watt thermostatically controlled electric heaters located in the oil reservoir shall maintain the oil temperature during off cycles.
  - 3. Two (2) 15-micron or finer filters shall be provided for each compressor.
  - 4. For simplicity and to reduce maintenance requirements, no compressor oil pump shall be allowed.

## 2.4 NATURAL GAS ENGINES

- A. Each chiller shall be furnished with two (2) natural gas engines, each of which shall be naturally aspirated and spark-ignited, with an 8-cylinder, vee-style block.
- B. The rating on each engine shall be as follows:
  - 1. Power: 161 horsepower @3600 rpm.
  - 2. Displacement: 454 cubic inches
  - 3. Bore and Stroke: 4.251 x 4.00 inches
  - 4. Compression Ratio: 9.2 to 1

- C. The ignition system shall include a High Energy Ignition (HEI) distribution with eight ignition wires and spark plugs. The starting system shall include a 12-volt dc power supply, a 12-volt sealed battery, a straight-drive starter motor, and related wiring. To reduce the size of the chiller's electrical connection, electric engine starting systems shall not be allowed.
- D. The engine lubrication system shall include an internal engine-driven oil pump, an oil pressure regulator, an oil filter, and an oil cooler that rejects heat to the engine coolant. Each engine's lubrication system shall also include a remote oil reservoir, consisting of a 55-gallon drum of oil, oil pump, level switches, hoses, and controls.
- E. A separate bulk oil system shall be provided for each engine, for greater redundancy during servicing. This engine oil lubrication system shall be furnished loose to the contractor with each chiller but installed at time of start-up by the chiller manufacturer's technician.
- F. Engine oil shall be constantly circulated between each engine and its corresponding remote sump (drum). The quantity of oil furnished with each engine shall be sufficient to allow a minimum oil change interval of 3,000 engine run-hours or 1,500 equivalent full-load hours, whichever comes first.
- G. The engine coolant system shall consist of a pressurized, closed-loop, direct-jacket cooling circuit requiring a city water make-up line and a pre-charged bladder-type expansion tank. For each engine, the coolant system shall include: an electric motor-driven pump powered internally from the chiller's control panel, a pressure relief valve, a thermostatic control valve, a two-pass shell-and-tube "dump" heat exchanger for rejecting the engine's heat to the cooling tower, and an air removal device with a vent. The cooling system shall provide cooling for the engine jacket, exhaust manifolds, and oil cooler. To ensure adequate heat transfer from the engine, the "dump" heat exchanger shall be oversized, capable of rejecting up to 1,696,000 Btu/hr to the cooling tower water loop.
- H. Each chiller package shall include a factory-installed thermostatic mixing valve and associated water piping and controls, to re-circulate engine coolant. This integral valve, piping, and controls shall maintain the proper minimum coolant temperature entering the engine(s).
- I. Each chiller package shall also incorporate a second factory-installed thermostatic mixing valve and associated piping and controls. This second valve shall direct the engine coolant, once it has been warmed above its minimum temperature, to the chiller package's heat recovery connections, where engine heat recovery shall be available. When the external heat recovery loads are satisfied (i.e., they do not require further heat), or if the chiller's optional heat recovery connections are not utilized, the valve shall automatically direct engine coolant flow to the chiller package's "dump" heat exchanger, for rejection of waste engine heat into the site's cooling tower water loop.

- J. Each chiller shall include a factory-mounted engine coolant water pump, to direct flow to either the external heat recovery load or to the integral dump heat exchanger. The pump shall be wired and controlled entirely from the chiller control panel.
- K. The fuel system shall be suitable for a low-pressure gas supply. For each engine, a factory-installed fuel system shall be provided that includes two (2) gas solenoid shut-off valves, a gas pressure regulator, a carburetor, and a throttle body assembly.
- L. The engine shall include a closed Positive Crankcase Ventilation system, which shall remove corrosive gases from the engine crankcase and direct them back into the intake manifold to be burned along with the regular fuel charge.
- M. For greater chiller redundancy each chiller shall be equipped with two (2) engines and compressors.
- N. Chiller capacity ratings shall be net of any tons required by any engine aftercoolers or intercoolers, for instance, if the engine(s) furnished are of the turbocharged type.

## 2.5 EVAPORATOR

- A. The evaporator shall be of the shell-and-tube, flooded design. Water shall flow inside the tubes and transfer heat to the liquid refrigerant that fills the shell side.
- B. Tubing shall be the high-efficient type, with integral fins rolled into tube sheets and individually replaceable.
- C. The vessel shall display an ASME nameplate indicating the “U” stamp for *ASME Section VIII, DIV 1* and the pressure rating of the vessel.
- D. The vessel shall be insulated with ¾” thick close-cell insulation.
- E. The shell side of the vessel shall contain one (1) refrigerant relief valve.
- F. The water side of the vessel shall be rated for 150 psig maximum working pressure.
- G. A water-side vent and drain shall be provided on each end bell of the vessel.
- H. The vessel shall have 8” *Victaulic* pipe connections.

## 2.6 CONDENSER

- A. The condenser shall be of the shell-and-tube design.
- B. Tubing shall be the high-efficient type with integral fins rolled into tube sheets and individually replaceable.
- C. The vessel shall display an ASME nameplate indicating the “U” stamp for *ASME Section VIII, DIV 1* and the pressure rating of the vessel.

- D. The water side of the vessel shall be rated for 150 psig maximum working pressure.
- E. A water-side vent and drain shall be provided on each end bell of the vessel.
- F. The vessel shall contain dual relief valves so a relief valve can be replaced without removal of the refrigerant charge.
- G. The vessel shall be cleanable with 8" *Victaulic* pipe connections.

## 2.7 REFRIGERANT FLOW CONTROL

- A. The chiller shall be provided with a microprocessor-controlled metering valve for regulating refrigerant flow from the condenser to the evaporator, in order to maintain the proper amount of liquid in each of the heat exchangers, at both full- and part-load conditions.
- B. The chiller's microprocessor shall interface with a stepper motor operator. The stepper motor shall be digitally controlled and provide small incremental, rotational movement of the valve stem.

## 2.8 CONTROLS

- A. The chiller shall be furnished with an electronic microprocessor-based control system mounted on the chiller, including the microprocessor, power supplies, a digital I/O board with relays, an analog sensor board including sensors, a two-line 40-character alpha-numeric display, start/stop keys, status lights, reset buttons, function keys, an emergency stop pushbutton, an engine overspeed device, a modem for remote communications, and related mechanical relays and wiring.
- B. For ease-of-service (and to ensure compatibility between control functions and single-source accountability to the chiller manufacturer), each chiller shall be furnished with a single microprocessor control panel, containing both engine and refrigeration-side controls. Separate control panels for engine and chiller functions shall not be permitted.
- C. The chiller shall only require a single electrical connection, located at the chiller control panel.
- D. The chiller's controls shall be fully electronic. No electromechanical devices shall be allowed for primary chiller control.
- E. Start-up and shutdown of the machine shall be manual or automatic. Automatic operation shall be activated by the temperature control panel.
- F. Chilled water setpoint shall be manually entered at the control panel or input to the system with a varying signal from a building management system as required.

- G. The control panel shall be able to output a signal to start the chilled water pump, start the condenser water pump, start the optional dump heat exchanger boost pump, and indicate when the unit is in alarm.
- H. The control panel shall be able to accept a mandatory input signal from a chilled water flow switch to confirm flow in the chilled water loop before starting.
- I. The control panel shall be equipped with a Remote Monitoring and Control System (RMCS) that allows monitoring and limited control of the unit from a remote site via the internet. At a minimum, the following data shall be retrievable via modem:
  - 1. Current detailed operating data and status
  - 2. List of 20 most recent alarms, with alarm type, date, and time for each
  - 3. Detailed “snapshot” data for the eight (8) most recent alarms, for period up to 10 minutes before each alarm, in 15-second intervals
  - 4. Operating load data, including total cumulative operating hours, Equivalent Full Load Hours (EFLH), and operating-hours at different rpm (speed) ranges
  - 5. Software revision date and current control settings.
- J. The remote monitoring and control system shall be provided with menu-driven IBM-compatible software for remote users and full operating instructions. The control panel shall be provided with a direct computer connection port.
- K. The control system shall have the option of controlling the chilled water return temperature rather than supply temperature.
- L. The control system shall be capable of automatically restarting the unit fifteen minutes after power is restored following a power outage.
- M. The control system shall be capable of automatically resetting basic alarms, as an option.
- N. The control system shall be programmable with a 7-day operating schedule and provide up to 64 schedule changes per week with both start/stop sequencing (with override) and setpoint. Scheduling shall be allowed on a 7-day basis to account for weekend operation.
- O. The control system shall be capable of cycling the chiller when it operates below 40% capacity for an extended period of time in order to facilitate oil return.
- P. The following functions shall be available from the control panel:
  - 1. start chiller
  - 2. stop chiller (normal & emergency)
  - 3. adjust chilled water setpoint
  - 4. adjust maximum engine speed setting
  - 5. clear alarms

6. clear prealarms
7. schedule start/stop sequence
8. schedule chilled water setpoint
9. set time and date
10. energize individual outputs for diagnostics
11. calibrate transducers
12. calibrate analog card
13. change control gains
14. change cycle restart temperature
15. change remote setpoint input signal range

Q. The following information shall be available from the standard display output:

1. chilled water outlet temperature
2. chilled water setpoint
3. engine rpm
4. runtime
5. EFLH
6. starts
7. average load
8. maximum speed setting
9. suction temperature
10. discharge temperature
11. compressor oil temperature
12. engine coolant temperature
13. superheat
14. suction pressure
15. compressor oil pressure
16. oil filter pressure drop
17. last 20 alarms
18. date and time

R. The sequence of operation shall initiate with a pump start sequence, followed by engine start, engine warm-up, engine speed ramp-up, and then setpoint control. Normal shutdowns shall occur with a gradual engine speed rampdown followed by compressor unloading. After the engine stops, pumps shall be circulated for a short time afterward.

S. Setpoint control shall be achieved by modulating engine speed in a range from 1000 to 3600 rpm. Engine speed control shall be achieved through the use of a stepper motor that drives the throttle linkage.

T. Chilled water setpoint shall be maintained to within one half of a degree from setpoint, eliminating hunting and decreasing part-load energy consumption.

## 2.9 SAFETIES AND DIAGNOSTICS

A. The control system shall automatically shut down the chiller when one of the following alarms occur (listed as displayed):

1. Engine Oil Level (low or high)
2. Evaporator Pump Fail
3. Hi Accel Time
4. Hi Comp Oil Temp
5. Hi Coolant Temp
6. Hi Discharge Press
7. Hi Discharge Temp
8. Keypad Failure
9. Lo Chiller Temp
10. Lo Comp Oil Press
11. Lo Comp Oil Temp
12. Lo Coolant Pressure
13. Lo Coolant Temp
14. Lo Eng Oil Pressure
15. Lo Suction Pressure
16. Overspeed
17. Processor Error
18. Start Failure
19. Starter Failure
20. Analog Card Failure
21. Ignition Power Failure
22. Underspeed
23. Lo Comp Oil Level
24. Lo Injection Oil Pressure
25. Hi Coolant Press
26. Hi Enclosure Temp
27. Hi Eng Oil Temp
28. Engine Emission Failure
29. Hi Catalyst Temp

B. The control system shall take corrective action by reducing capacity when it is detected that the system is approaching one of the following alarms:

1. Hi Discharge Press
2. Hi Coolant Pressure
3. Lo Comp Oil Press
4. Lo Suction Pressure
5. Hi Eng Oil Temp

C. Once the condition is within acceptable limits, the system shall resume normal operation.

- D. The control system shall include a diagnostic mode that allows all output devices to be energized individually when the system is shutdown for the purpose of troubleshooting. These outputs include pumps, solenoids, heaters, and relays. Also, the status of input switches shall be accessible in this mode.
- E. The control system shall be equipped with a redundant engine overspeed safety device independent of the microprocessor which shall interrupt power to the gas solenoid when it senses an overspeed.

## 2.10 ACCESSORIES TO BE PROVIDED

- A. Acoustic Enclosure
  1. The chiller shall be provided with a removable engine enclosure for each engine, with sound attenuating liner.
  2. Each chiller shall achieve sound attenuation down to 88 dBa at full-load, as measured at 1 meter, free-field, excluding wall-reflected noise.
  3. Each enclosure shall attractively package the unit and have easily removable panels for servicing.
  4. Each enclosure shall be equipped with a ventilation fan that is powered and controlled internally from the chiller's microprocessor control panel.
- B. Emissions Control System
  1. The chiller shall be equipped with an emissions control system for each engine that reduces engine exhaust emissions to not more than 0.15 grams NO<sub>x</sub>/ Bhp-hr, 0.60 grams CO/ Bhp-hr, and 0.15 grams NMHC/ Bhp-hr to comply with local requirements (air permitting is by others with assistance from chiller manufacturer).
  2. Emissions system shall also include a microprocessor-based air/fuel ratio controller, integral to the chiller.
  3. The emissions system controller shall be capable of relaying key emissions system operating parameters to a remote user, via modem and internet. This data shall be accessible through the chiller's microprocessor panel and remote monitoring and control system, rather than through a separate Ethernet connection.
  4. Emissions system shall be furnished with leaving overtemperature protection.
- C. Engine Heat Recovery
  1. The chiller shall be provided with engine jacket heat recovery. The engine heat recovery system shall be capable of supplying not less than 960,000 Btu/hr of available heat at full-load, at standard conditions.
- D. Exhaust Heat Recovery
  1. The chiller will be provided with exhaust gas heat recovery heat exchangers. These heat exchangers will augment the heat recovery available from the engine to a total of 1,660,000 Btu/hr of available heat at full-load at a water temperature of 235°F, at standard conditions. With the optional exhaust gas heat recovery heat exchangers, the leaving exhaust temperature from each engine will be below 500°F.

- E. Exhaust Thermal Expansion Joint
  1. Each chiller shall be provided with one (1) 4"-flanged exhaust thermal expansion joint per engine. Thermal expansion joints shall be furnished loose, for field installation by others in the exhaust piping. The thermal expansion joint shall provide for axial compression of up to 3 inches in the exhaust piping.
- F. Exhaust Silencer
  1. Each chiller shall be furnished with two (2) 4"-flanged, hospital-grade stainless-steel exhaust silencer per engine. Silencers shall be furnished loose, for field installation by others in the exhaust piping.
- G. Neoprene Pads for Chiller Isolation
- H. Engine Make-Up Line Expansion Tank
  1. Each chiller shall be furnished with an Amtrol Fill-Trol pre-pressurized, diaphragm-type expansion tank, with automatic pressure reducing valve. Tank assembly shall be furnished loose, for field installation by others in the chiller's make-up water line.
- I. Evaporator Flow Verification
  1. Each evaporator shall be furnished with one (1) thermal dispersion-type chilled water flow switch. The flow switch shall be factory wired into the TECOCHILL microprocessor control cabinet. The operation of the flow switch shall be factory tested prior to equipment shipment.
- J. Integral Motorized Refrigerant Discharge Valve
  1. Each chiller shall be furnished with an integral motorized refrigerant discharge control valve, to allow a minimum inlet condenser water temperature of approximately 40°F. Control of this valve shall be provided by the chiller's microprocessor.

## PART 3 EXECUTION

### 3.1 INSTALLATION

- A. Install chiller in accordance with manufacturer's instructions, including:
  1. Supply single-phase power to the unit at the voltage and frequency listed in the equipment schedule.
  2. Supply and install the main electrical power line, disconnect switches, circuit breakers, and electrical protection devices as per local code requirements.
  3. Wire flow switch(es) from the chilled water circuit to the chiller control circuit, to ensure water flow is present during chiller operation.

4. Wire the chilled water pump and condenser water pump circuits to the chiller output relays.
5. Provide wiring and any devices necessary to interface the chiller with the building control system, to start/stop the unit, control the chilled water setpoint, and receive an alarm output.
6. Provide piping to and from the chilled water system. Provide an external differential pressure-type flow switch (if a flow switch is not factory-installed integral to chiller), as well as flexible pipe connections, pressure gauges, temperature gauges, and butterfly valves at the inlet and the outlet of the evaporator.
7. Provide piping to and from the cooling tower system for the condenser, engine dump heat exchanger, and bypass balancing line. Provide flexible pipe connections, pressure gauges, temperature gages, and butterfly valves at the inlet and outlet of the condenser.
8. Provide piping connections from chiller to the heat recovery system, including an external heat load exchanger, gauges, valves, and strainer.
9. Provide water make-up line with a pressure reducing valve and pre-charged bladder-type expansion tank for the coolant system of each engine.
10. Route piping from engine coolant relief(s) to drain, per local codes.
11. Provide exhaust piping for each engine to a location outside the building in accordance with manufacturer's specifications and guidelines, *NFPA 31-1984 Standard for the Installation and Use of stationary combustion Engines and Gas Turbines*, *NFPA 211-1984 Standard for Chimneys, Fireplaces, Vents, and Solid Fuel Burning Applications*, and local codes. Exhaust system shall be insulated and provided with a thermal expansion joint, a muffler for sound attenuation, emissions test ports, suitable hangers/ rollers/ anchors, and a catalytic converter. Field mount exhaust temperature thermocouples per manufacturer's installation manual.
12. Provide natural gas piping and pressure regulating valve for each chiller in accordance with manufacturer's specifications and guidelines, *AGA Requirements for Gas-Fired Engine-Driven Air Conditioning Appliances No. 4-89*, and local codes.
13. Provide piping for the refrigerant pressure relief valves in accordance with *ANSI/ASHRAE 15-1978 Safety Code for Mechanical Refrigeration*.
14. Install the chiller on a concrete pad with neoprene-type isolator pads. Set unit level and anchor chiller to concrete pad.

15. Install and pipe the bulk oil storage system per manufacturer requirements. Provide secondary oil containment as shown on drawings.

### 3.2 MANUFACTURER'S FIELD START-UP SERVICE

- A. Chiller manufacturer's factory technician shall perform start-up of the chiller. This start-up service shall include:
  1. Site inspection
  2. Verification of site parameters such as flows, gas pressures, city water pressure, and electrical power connections
  3. Verification of chilled water flow safety switch
  4. Verification of refrigerant charge, engine pan oil level, and compressor oil in each chiller
  5. Installation of bulk oil system for each engine, including 55-gallon reservoir, circulating pump, and connecting hoses.
  6. pre-start check of chiller functions
  7. Verification that phoneline and modem are working properly, and downloading of updated software via modem as necessary
  8. Operation and set-up of each engine
  9. Running each chiller at various loads, and verification that operating parameters are within specifications
  10. Recording key operating data
  11. Write-up of any follow-up actions required by contractor and site
  12. Obtaining responsible site person's signature that start-up is complete and submit start-up report.
  13. Provide instruction on operation and maintenance of chiller to Owner's operating personnel.
- B. Manufacturer's start-up services shall be provided once the contractor has confirmed that each chiller is ready for start-up, including verification that all connections are made, flows and pressures checked, leaks checked, air removed, instrumentation installed, etc. Contractor shall assist the manufacturer's service technician during start-up.
- C. Chiller manufacturer shall assist the Owner during the air emissions source-testing and permitting process.

### 3.3 OPERATION AND MAINTENANCE MANUAL

- A. Provide four (4) sets of complete operation and maintenance manual(s), with descriptive literature, model, and serial number of all equipment, performance data, manufacturer's instructions for operation and maintenance, scheduled service and lubrication recommendation and schedule, and seasonal shutdown procedure.
- B. Provide detail operation and maintenance training to facility personnel on site.

3.4 SERVICE AND MAINTENANCE

- A. For each chiller, chiller manufacturer shall provide complete service and maintenance during the first year of operation, commencing at start-up.
- B. This “complete” service shall include both scheduled, as well as all unscheduled (“emergency”) service.
- C. Entire chiller (including its engines, compressors, refrigeration components, and controls) shall be covered by this program.

**6. PROJECT SCHEDULE:**

The Engine Driven Chillers delivery will start once the contract is awarded through June 30, 2022.

**NOTE:** The Town, at its discretion, may choose to extend the agreement for an additional option school year.

**Fee Bid:**

Please indicate your proposed fee for these items for 2022-2023, and 2023-2024 school years.

**Selection Procedure:**

Bids will be evaluated based on the responsiveness of this Bid, technical qualification, and previous experience with clients similar to Greenwich Public Schools and anticipated cost.

Greenwich Public Schools reserves the right to reject any and all Bids not deemed to be in the best interest of the Greenwich Public Schools.

**7. Include in your company’s submittal for Engine Driven Chillers, consideration of the four (4) items listed below:**

- a. The Proximity of the dealer/company with respect to Greenwich Public Schools must be within a 75-mile radius.
- b. Selected company must provide delivery to Greenwich High School 10 Hillside Road, Greenwich CT (FOB) cost in their bid.
- c. The Bidder should demonstrate familiarity with Connecticut school requirements and Connecticut State Building Codes.
- d. Units must be able to communicate with existing Tecogen Tecochill with the capability of alarms remotely monitored by manufacturer.

**8. Fee Bid:**

Indicate your proposed fee per unit for proposed items, including contract administration as described. The district reserves the right to provide payment in accordance with completion of services based on the project schedule.

**10. Questions:**

Questions concerning this Bid will be received by e-mail only directed to the Bid Department at: ([bid\\_department@greenwich.k12.ct.us](mailto:bid_department@greenwich.k12.ct.us)). In the subject line you must put Bid #2373-22 Engine Driven Chillers. All questions must be received no later than noon June 13, 2022. All answers will be posted as an addendum to our website, [www.greenwickschools.org](http://www.greenwickschools.org) no later than noon on June 15, 2022. Failure to comply with these conditions will result in the proposer waving his/her right to dispute the Bid specifications and conditions. It is the proposer's responsibility to check our website for all addenda up to the day before the opening date.

**11. Acceptance:**

The department will make determination of the acceptability of work. Work shall be completed in a responsive and professional manner and in accordance with the specifications.

**12. General Terms and Conditions:**

- a. Sealed Bids for furnishing Chillers for Greenwich Public Schools, as specified on the attached Bid specification sheets, will be received at the time and date above.
- b. The Board of Education reserves the right to waive any informality in the Bid or reject any or all Bids or to accept any Bid, which appears to be in the best interest of the Board. Any Bid may be withdrawn prior to the opening time and date. Any Bid received after the time and date as specified will not be considered.
- c. The Board of Education may consider proximity of vendor's service as a factor in determining lowest responsible Bid.
- d. If the Board of Education deems it necessary, the Board of Education may postpone the date for the opening of these Bids by notifying each proposer by telephone, mail or the issuing of an addendum.
- e. The Board of Education shall have the right to take such steps as it deems necessary to determine the ability of the proposer to perform the work and the proposer shall furnish the Board of Education with information and data for this purpose as the Board of Education may request. The right is reserved to reject any Bid where, on investigation, the evidence or information submitted by such Bidders does not satisfy the Board of Education that the proposer is qualified to carry out properly the terms of the contract.

- f. Consumption or use of alcohol and/or drugs is prohibited on school property. Any individual with alcohol or drugs will be removed from said property. Smoking is prohibited in all school buildings and on school grounds.
- g. Bidders are to respond to this request for bid by completing the attached Reply Sheets. Bidders shall indicate their pricing, and all other required information on the Reply Sheets. The pricing on the Reply Sheets shall be complete and shall include the costs of all shipping, delivery, insurance, certificates, permits, etc.
- h. Bidders shall also indicate if there may be changes in pricing for the optional years of the service agreement. If price changes are possible in the option years, bidders shall indicate the maximum percentage of the potential increases or decreases on the Reply Sheets. Pricing will be fixed for each annual contract term.
- i. The Bidder is required to do Employee Background Checks as imposed by Section 2 of Public Act 16-67, which amended Conn. Gen. Stat. 10-222c.

**13. Tax:**

No amount shall be added for the Connecticut Sales Tax or Federal Tax. The Greenwich Public School system is exempt from the payment of taxes imposed by the Federal Government and/or State of Connecticut. Taxes must not be included in the Bid price.

**14. Collusion among Bidders:**

- a. More than one offer from an individual, firm partnership, corporation or association under the same or different name will be rejected. Reasonable grounds for believing that a proposer is interested in more than one Bid for the work contemplated will cause rejection of all Bidders in which the proposer is interested. Any or all Bidders will be rejected if there is any reason for believing that collusion exists among the Bidders.
- b. Participants in such collusion may not be considered in future offers for the same work. Each proposer, by submitting a Bid, certifies that it is not a part to any collusive action.

**15. Employment Discrimination by Contractor Prohibited:**

- a. The successful proposer will not discriminate against any employee or applicant for employment because of race, religion, color, sex, or national origin, except where religion, sex or national origin is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor. The successful proposer agrees to post in a conspicuous place, available to employees and applicants for employment, notices setting forth the provision of this nondiscrimination clause. The successful Proposer in all solicitation or

advertisements for employees, placed by or on behalf of the contractor, will state that such successful Proposer is an Equal Opportunity Employer.

- b. Notices, advertisements, and solicitations placed in accordance with Federal Law, rules or regulation shall, be deemed sufficient for the purpose of meeting the requirements of this section.

**BID FORM**

Bids must be submitted to the Greenwich Public Schools, Havemeyer Building, and 290 Greenwich Avenue, Greenwich, Connecticut 06830.

Date \_\_\_\_\_  
Greenwich Public Schools  
Havemeyer Building  
290 Greenwich Avenue  
Greenwich, CT 06830

Re:

Gentlemen:

(I, We) \_\_\_\_\_ the undersigned having familiarized ourselves with the local conditions affecting the cost of the work and with Contract Documents and all addenda to said Documents, hereby propose to furnish all labor, tools, materials, equipment and insurance, to pay all applicable taxes, and to do and perform all things as provided in the Specifications, all in accordance with the Contract Documents.

**COST PER UNIT:** \_\_\_\_\_

**Bidder's Company Name:** \_\_\_\_\_

**Authorized Signature:** \_\_\_\_\_

INSURANCE REQUIREMENTS

PLEASE NOTE:

**THIS PAGE MUST BE RETURNED WITH YOUR BID/BID. FAILURE TO DO SO MAY RESULT IN YOUR BID/BID BEING REJECTED.**

Please take the insurance requirements for this purchase to your agent/broker immediately upon receipt of the bid documents to determine your existing coverage and any costs for new or additional coverage required for the work noted in this Request for Bid. Any bids with deficient insurance requirements will be rejected.

STATEMENT OF VENDOR:

I have read the insurance requirements for this work and have taken the documentation to my insurance agent/broker. The bid cost reflects any additional costs relating to insurance requirements for this work.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Contractor

**Insurance Requirements:** Before starting and until final completion and acceptance of the work called for in the Contract and expiration of the guarantee period provided for in the Contract, the Contractor and its subcontractors, if any, shall procure and maintain insurance of the types and amounts checked in paragraphs A through F below for all Contract operations.

- A. General Liability, with minimum coverages for combined bodily injury and property damage liability of **\$2,000,000** general aggregate, **\$1,000,000** per occurrence including:
  - 1. Commercial General Liability.
  - 2. Town as additional insured.
  - 3. Owners and Contractors Protective Liability (separate policy in the name of the Town).
- B. Comprehensive Automobile Liability, with minimum coverages of **\$1,000,000** combined single limit for bodily injury and property damage, including, where applicable, coverage for any vehicle, all owned vehicles, scheduled vehicles, hired vehicles, non-owned vehicles and garage liability.
- C. Excess Liability with minimum coverage of **\$5,000,000** in umbrella form, or such other form as approved by Town Department Head and Risk Management Director.
- D. Workers' Compensation and Employer's Liability, with minimum coverages as provided by Connecticut State Statutes.
- E. Professional Liability (for design and other professionals for Errors and Omissions) with minimum coverage of **\$1,000,000**. If the policy is on a claims-made basis, coverage shall be continually renewed or extended for three (3) years after work is completed under the Contract.
- F. Other (Builder's Risk etc.): \_\_\_\_\_.
- G. CERTIFICATE HOLDER: TOWN OF GREENWICH, GREENWICH BOARD OF EDUCATION, ATTN: BOARD OF EDUCATION (also fill in on ACORD Certificate of Insurance) 290 Greenwich Avenue, Greenwich, CT 06830.

The **Acord certificate of insurance form** must be executed by your insurance agent/broker and returned to this office. Company name and address must conform on all documents including insurance documentation. It is required that agent/broker note the individual insurance companies providing coverage, rather than the insurance group, on the Acord form. The Contract number (provided to the awarded Contractor), project name and a brief description must be inserted in the "Description of Operations" field. It must be confirmed on the Acord Form that the Town of Greenwich and the Greenwich Board of Education is endorsed as additional insured by having the appropriate box checked off and/or stating such in the "Description of Operations" field. A letter from the awarded vendor's agent/broker certifying that the Town of Greenwich has been endorsed onto the general liability policy as an additional insured is also mandatory. This letter must follow exactly the format provided by the board of Education and must be signed by the same individual authorized representative who signed the Acord form. (See page \_\_\_ for sample "Endorsement" letter).

The Contractor shall be responsible for maintaining the above insurance coverage's in force to secure all of the Contractor's obligations under the Contract with an insurance company or companies with an AM Best Rating of A: VII or better, licensed to write such insurance in Connecticut and acceptable to the Risk Manager, Town of Greenwich. For excess liability only, non-admitted insurers are acceptable, provided they are permitted to do business through Connecticut excess line brokers per listing on the current Connecticut White List of the State of Connecticut Insurance Department.

**ACORD**

# CERTIFICATE OF LIABILITY INSURANCE

PRODUCER	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER, THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.
	INSUREERS AFFORDING COVERAGE

INSURED	<b>Contract #</b>	INSURER A:
		INSURER B:
		INSURER C:
		INSURER D:
		INSURER E:

**COVERAGES**  
 THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OF CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSURER	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE(MM/DD/YY)	POLICY EXPIRATION DATE(MM/DD/YY)	LIMITS		
	GENERAL LIABILITY COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> _____ <input type="checkbox"/> _____ GENERAL AGGREGATE LIMIT APPLIES TO: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC				EACH OCCURENCE FIRE DAMAGE (Any one fire) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGRREGATE PRODUCTS-COMP/OP AGG		
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS <input type="checkbox"/> _____ <input type="checkbox"/> _____				COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)		
	GARAGE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> _____				AUTO ONLY-EA ACCIDENT OTHER THAN AUTO ONLY: <u>EA ACC</u> / <u>AGG</u>		
	EXCESS LIABILITY <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> DEDUCTIBLE <input type="checkbox"/> RETENTION \$				EACH OCCURENCE AGGREGATE		
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY				<table border="1"> <tr> <td>WC STATU-</td> <td>OTH-ER</td> </tr> </table> E.L. EACH ACCIDENT E.L. DISEASE-EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	WC STATU-	OTH-ER
WC STATU-	OTH-ER						
	Professional Liability						

**DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS** Additional Insured: The Town of Greenwich and the Greenwich Board of Education are named as additional insured for Contract # \_\_\_\_ It is agreed by both parties to Contract No \_\_\_\_ that the Contractors insurance will be primary and non-contributory

CERTIFICATE HOLDER	<input checked="" type="checkbox"/> ADDITIONAL INSURED; INSURER LETTER: __	CANCELLATION
--------------------	--	--------------

**Certificate Holder:**  
**Town of Greenwich**  
**Board of Education**  
**101 Field Point Road**  
**Greenwich, CT 06830**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE R NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OF REPRESENTATIONS

**INSURANCE PROCEDURE**

**PLEASE NOTE:**

**THIS PAGE MUST BE RETURNED WITH YOUR BID/BID. FAILURE TO DO SO MAY RESULT IN YOUR BID/BID BEING REJECTED.**

Please take the insurance requirements of the Contract to your agent/broker immediately upon receipt of the bid documents to determine your existing coverage and any costs for new or additional coverage required for the work noted in this Request for Bid/Bid. Any bids/Bids with deficient insurance requirements will be rejected. The firm who is awarded the Bid/Bid must return the contract, agent/broker and insurance form within two (2) weeks from the date on the award letter.

**PLEASE CHECK THE APPROPRIATE BOX**

**YES**

**NO**

- |  |                |                          |                          |
|--|----------------|--------------------------|--------------------------|
| 1. General Aggregate   | \$2,000,000.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Per Occurrence  | \$1,000,000.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Automobile Liability  | \$1,000,000.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Excess Liability  | \$5,000,000.00 | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Professional Liability  |                | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Worker's Compensation and Employer's Liability                                      |                | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Town as Additional Insured  |                | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Ability to Return Contract and Insurance Documents Within Two (2) Weeks             |                | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Able to Provide the Town with Thirty (30) Days Prior Written Notice of Cancellation |                | <input type="checkbox"/> | <input type="checkbox"/> |

**STATEMENT OF VENDOR:**

I have read the insurance requirements for this work and have taken the documentation to my insurance agent/broker. The bid/Bid cost reflects any additional costs relating to insurance requirements for this work.

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Contractor

**NON-COLLUSION AFFIDAVIT**

**GREENWICH PUBLIC SCHOOLS  
290 GREENWICH AVE  
GREENWICH, CONNECTICUT**

State of \_\_\_\_\_:

County of \_\_\_\_\_:s.s.

I state that I am the \_\_\_\_\_ of \_\_\_\_\_  
(TITLE) (NAME OF MY FIRM)

and that I am authorized to make this affidavit on behalf of my firm, and its owners, directors, and officers. I am the person responsible in my firm for the price(s) and the amount of this bid.

I state that:

- (1) The price(s) and amount of this bid have been arrived at independently and without consultation communication or agreement with any other contractor, bidder/proposer or potential bidder/proposer.
- (2) Neither the price(s) nor the amount of this RFP/BID, and neither the approximate price(s) nor approximate amount of this RFP/BID, have been disclosed to any other firm or person who is a bidder/proposer or potential bidder/proposer, and they will not be disclosed before RFP/BID opening.
- (3) No attempt has been made or will be made to induce any firm or person to refrain from bidding/proposing on this contract, or to submit a RFP/Bid higher than this RFP/BID, or to submit any intentionally high or noncompetitive RFP/BID or other form of complementary RFP/BID.
- (4) I fully understand that more than one offer from an individual, firm partnership; corporation or association under the same or different name will be rejected. Reasonable grounds for believing that a bidder/proposer is interested in more than one RFP/BID for the work contemplated may cause rejection of all RFP's/BIDs in which the bidder/proposer is interested. Any or all Proposers/Bidders will be rejected if there is any reason for believing that collusion exists among the Proposers/Bidders. Participants in such collusion may not be considered in the future offers for the same work. Each bidder/proposer by submitting a Proposal/Bid certifies that it is not a part to any collusive action.
- (5) The Proposal/BID of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive Proposal/Bid.

(6) \_\_\_\_\_ its affiliates, subsidiaries, officers,  
(NAME OF MY FIRM)

directors and employees are not currently under investigation by any governmental agency and have not in the last four years been convicted or found liable for any act prohibited by State or Federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding/proposing on any public contract, except as follows:

I state that \_\_\_\_\_ understands and acknowledges that  
(NAME OF MY FIRM)

the above representations are material and important, and will be relied on by Greenwich Public Schools in awarding the bid/Bid for which this is submitted. I understand and my firm understands that any misstatement in this affidavit is and shall be treated as

fraudulent concealment from Greenwich Public Schools of the true facts relating to the submission of RFP's/Bids for this contract.

(7) I agree to furnish and deliver all services on the date and time agreed on by \_\_\_\_\_ and the Greenwich Board of Education at \_\_\_\_\_  
(NAME OF MY FIRM)

The time the purchase order is placed. Furthermore, there will not be any cancellations to the Board of Education. If a bidder/proposer submits a bid/proposer on any item he/she will be responsible for delivering that item at the RFP/Bid cost, in accordance with the attached above specifications, which were submitted with this RFP/Bid and upon which the RFP/Bid was made.

(8) In submitting this RFP/Bid, the undersigned declares that this is made without any connection with any persons making another RFP/Bid on the same contract; that the RFP/Bid is in all respects fair and without collusion, fraud or mental reservation; and that no official of the Town, or any person in the employ of the Town, is directly or indirectly interested in said RFP/Bid or in the supplies or work to which it relates, or in any portion of the profits thereof.

(9) In submitting this bid, the undersigned further declares that it has not, and will not, induce or attempt to induce any Town of Greenwich employee or officer to violate the Greenwich Code of Ethics in connection with its offer to provide goods or services under, or otherwise in the performance of such contract.

(10) The undersigned further understands that the above declarations are material representations to the Town of Greenwich made as a condition to the acceptance of the RFP/Bid. If found to be false, the Town of Greenwich retains the right to reject said RFP/Bid and rescind any resultant contract and/or purchase order and notify the undersigned accordingly, thereby declaring as void said RFP/Bid and contract or purchase order.

(11) The Greenwich Code of Ethics can be found at [www.greenwichct.org](http://www.greenwichct.org). Code of Ethics stated as follows:

(2) **DEFINITION.** (1) Indirect interest, without limiting its generality, shall mean and include the interest of any subcontractor in any prime contract with the Town and the interest of any person or his immediate family in any corporation, firm or partnership which as a direct or indirect interest in any transaction with the Town. (2) Substantial financial interest shall mean any financial interest, direct or indirect, which is more than nominal and which is not common to the interest of other citizens of the Town. (3) Town Officer shall mean and include any official, commission, committee, legislative body or other agency of the Town. (4) Transaction shall mean and include the offer, sale or furnishing of any real or personal property, material, supplies otherwise, for the use and benefit of the Town for a valuable consideration, excepting the services of any person as a Town Officer.

(3) **GIFTS AND FAVORS.** No Town Officer or his immediate family shall accept any valuable gift, things, favor, loan or promise which might tend to influence the performance or nonperformance of his official duties.

(4) **IMPROPER INFLUENCE.** No Town Officer having a substantial financial interest in any transaction with the Town or in any action to be taken by the Town shall use his office to exert his influence or to vote on such transaction or action.

**VENDOR INFORMATION.** (Please print the following)

\_\_\_\_\_  
**VENDOR NAME**

\_\_\_\_\_  
**ADDRESS**

\_\_\_\_\_  
**TELEPHONE**

\_\_\_\_\_  
**FAX #**

\_\_\_\_\_  
**E-MAIL**

\_\_\_\_\_  
**WEB SITE**

\_\_\_\_\_  
**AUTHORIZED SIGNATURE**

\_\_\_\_\_  
**TITLE**

(12) By signing this bid/Bid the bidder/proposer understands and agrees to the attached terms, conditions, and specifications, including Collusion among Bidders/Bidders Employment Discrimination by the Contractor Prohibited.

\_\_\_\_\_  
**SIGNATURE**

**SWORN AND SUBSCRIBED TO BEFORE ME, A NOTARY PUBLIC, IN AND FOR THE COUNTY OF \_\_\_\_\_ AND THE STATE OF \_\_\_\_\_**

\_\_\_\_\_ **THIS** \_\_\_\_\_

**DAY OF \_\_\_\_\_, 2022** \_\_\_\_\_

\_\_\_\_\_  
**NOTARY PUBLIC**

**MY COMMISSION EXPIRES** \_\_\_\_\_

