

Specifications For: Peracetic Acid (PAA) 40,000 Lbs Available PAA

PAA will be used at the City of Daytona Beach Bethune Point Wastewater Treatment Plant (BPWWTP) located at 1 Shady Place, Daytona Beach, Florida 32114 and the Regional Wastewater Treatment Plant, located at 3651 LPGA Boulevard, Daytona Beach, Florida 32124 to aid in disinfection of the effluent.

The VENDOR will supply PAA manufactured to meet the product specifications contained herein. Adherence to the recommended product specifications is critical to ensure consistent performance for projects with very stringent effluent quality requirements.

A. SUBMITTALS

The VENDOR will furnish the following WITH THE BID:

- 2) Technical data sheets
- 3) MSDS
- 4) The address for the intended primary location of manufacture and any alternative locations that could be utilized for production.
- 5) An emergency plan that describes the protocol that will be utilized to assure uninterrupted product supply in the event that the primary facility is damaged or impacted by a severe Emergency.
- 6) In order to demonstrate performance history, supplier will submit a list of at least five (5) current municipal wastewater treatment plant users of its product as references. At least two of the references will be serviced by the same primary manufacturing location intended for use under this bid. Information will include:
 - a. Plant name
 - b. Contact name
 - c. Phone number
 - d. E-mail address
 - e. Plants annual average design (MGD)
 - f. Actual annual average (MGD)
 - g. Annual average usage of vendor's neat product in gallons.
- 7) At least one year of quality control sampling data that demonstrates that the PAA being supplied is of consistent quality.
 - a. The one year of Quality control data must represent all production of the product and will include:
 - i. The point of origin and batch date
 - ii. Measurements of:
 1. % Peracetic Acid
 2. % H₂O₂ per batch
 3. pH

4. Specific Gravity

- iii. For each, the Peracetic Acid, H₂O₂, pH, and Specific Gravity parameters, will deviate no more than 5% of the reported values from the table below.

Insufficient data, missing data or failure to meet the above standards in 6.a.vi will render the Bid non-responsive and ineligible for consideration for award.

B. PAA SPECIFICATIONS

All bids will be expressed as the cost per pound of available PAA (Reference Special Instructions). All PAA products will be manufactured to meet the most stringent product specifications and will adhere to the following specifications:

Appearance	Clear, Colorless
Available Peracetic Acid 22% or Available Peracetic Acid 15%	21 – 23 % by Weight or 14-16 % by Weight
H ₂ O ₂ for 22% PAA or H ₂ O ₂ for 15% PAA	4 - 6 % by Weight or 21-24 % by Weight
Density (specific gravity @ 20° C)	1.11-1.17
Peracetic Acid 22% pH	<1 S.U.
Peracetic Acid 15% pH	<1 S.U.
Freeze Point	<-8° C
Stability	> 9 months

C. MANUFACTURING FACILITIES

1. In order to ensure a consistent and uninterrupted supply of product, manufacturer will maintain sufficient facilities to service the contract.
2. Cross contamination of the PAA will be strictly avoided by the vendor and/or manufacture. The manufacturing facility will have processing tanks, holding tanks and piping designed to ensure that cross contamination of the PAA will not occur.

D. ORDERS

All orders will be placed in increments of a minimum of 300 gallons product in totes. The Vendor will deliver the product within 3 to 5 days of placement of the order via issuance of a City Purchase Order.

E. DELIVERY

1. All deliveries will be made between 8:00 AM and 3:00 PM, Monday through Friday, unless approved otherwise by the City. **Suppliers will provide 24 hour notice prior to**

delivery and will be responsible for unloading at the delivery site. (There is no loading dock and delivery must be onto the ground.) With each delivery provided under the contract, the supplier must provide a Certificate of Analysis (COA) that includes, at minimum; point of origin, batch date, % Peracetic Acid, % H₂O₂, pH, and Specific Gravity. A sample may be collected from each delivery of product from one of the totes at the delivery site prior to accepting the delivery. Should the sample not meet specifications the delivery maybe refused or the supplier will be required to give an appropriated credit.

2. Product will be delivered FOB Destination, City of Daytona Beach Bethune Point Wastewater Treatment Plant (BPWWTP) located at 1 Shady Place, Daytona Beach, Florida 32114 or the Regional Wastewater Treatment Plant, located at 3651 LPGA Boulevard, Daytona Beach, Florida 32124.

IN THE EVENT THE SUPPLIER IS UNABLE TO SUPPLY PAA, THE CITY OF DAYTONA BEACH, RESERVES THE RIGHT TO PURCHASE SUPPLIES FROM THE BEST AVAILABLE SOURCE. ANY DIFFERENCE IN COST WILL BE BACK-CHARGED TO THE SUPPLIER.

BID SCHEDULE
ITB Number 0117-0180
ANNUAL TERM CONTRACT FOR PERACETIC ACID FOR WASTEWATER

Description	Unit of Measure	Est. Annual Quantity	Unit Price	Total Price
Available PAA	Pound	40,000	<u>\$ 4.01</u>	<u>\$ 160,400</u>

Date Signed: January 11, 2017

By: 
(Signature)

Name Typed: Brent Bankosky

Title: Sr. Vice President, Business Operations

Company Name: Enviro Tech Chemical Services, Inc.

FOR REFERENCE ONLY:

Peragreen 22WW (22% PAA)
300 gallon tote, 22% PAA with a specific gravity of 1.11:
 $300 \times 0.22 \times 1.11 \times 8.34 = 610.98$ Pounds of Available PAA in a 300 gallon tote of 22% PAA
40,000 Pounds of Available PAA, $40,000 / 610.98 = 65.47$ totes of 22% PAA (300 gallon totes)