

BOROUGH OF SOMERSET PROPOSAL

Corrosion and Scale Inhibitor

The Borough of Somerset will receive bids for the year 2016 for a Liquid Blend Ortho/Poly Phosphate for use in its potable water system. The bids will be received until 10:00 a.m. Monday, March 21, 2016 at which time they will be opened and read.

General Specifications

Product shall be a liquid blend of sodium and potassium orthophosphate and polyphosphate ingredients. There must be at least two (2) distinct and active phosphate ingredients intentionally combined to form a blended product, both of which are present at 5 percent or greater based on dry weight. Dry weight shall be defined as the weight of ingredients other than added water and without regard to waters of hydration.

Vendor shall supply the Borough with a list of ingredients included in the product proposed. Since formulations of blended phosphate are normally proprietary in nature, percentage of product components will not be required.

The product supplied shall be of food grade and shall not contain any soluble mineral or organic substance in quantities capable of producing deleterious or injurious effects to the health of persons consuming water that has been properly treated with the product.

Product shall be certified to meet ANSI/NSF Standard 60 Direct Additives for Drinking Water, and shall be found to be acceptable for potable use in Pennsylvania by State Regulatory Agencies.

Technical Specifications

Product shall meet the following technical specifications:

Color: Clear

Specific Gravity: 1.3 to 1.4

Weight/Gallon: 10.5 – 11.5

PH: 5.0 (+/- 1.0)

Water Insoluble Matter: not more than 0.1% (by weight)

Typical Properties:

Appearance: Clear Liquid

Phosphate (as PO₄): 36%

Polyphosphate: 50%

Orthophosphate: 50%

Shelf Life: 2+ Years

pH (+/- 1.0): 5.0

Pounds Per Gallon: 11.3 #/Gallon

Certification: Certified by NSF to NSF/ANSI Standard 6
Maximum Use Level: 5.0 mg/L
Handling & Safety: See Material Safety Data Sheet
Packaging: 15 Gallon Returnable Drums

Liquid product shall contain 35% +/- 2% orthophosphate measured as PO. This percentage is determined by the ratio of orthophosphate to total phosphate measured as PO in the liquid product. Ingredients containing zinc in concentrations such that the finished water zinc concentration exceeds 0.20 mg/l will not be acceptable.

Effectiveness of the Inhibitor and Sequestering Agent will be monitored by the Borough. Problems will then be forwarded to the supplier. Failure to resolve any problem may result in rejection of the bid.

Inspection and Testing Requirements

Bidder(s) may be required to furnish satisfactory samples for testing for compliance with these specifications, or otherwise prove to the satisfaction of the Borough that the proposed material complies with the requirements. Each bidder shall supply, if requested, three current references of users they are supplying the specific material proposed to meet these specifications.

A determination of the percentage of orthophosphate to total phosphate measured as orthophosphate will be by the colormetric method as described in APHA Standard Methods, 17th Ed. in Section 4500, or by any other approved method before and after hydrolysis. Any product delivered that does not test within the required range will be rejected.

Product stability shall be such that storage in a polyethylene tank for four (4) months will not affect compliance with 35% +/- 2% orthophosphate requirement.

The Borough reserves the right to make inspections to manufacturing site or product tests as necessary, to ensure the delivery of a satisfactory product. Any inferior product received may be rejected and the balance of the order cancelled immediately.

Distribution system performance will be measured by copper and lead leaching analysis of distribution system and plant samples, and system tests for Ortho Phosphate and total phosphate. These tests will be performed and results evaluated by the Borough to determine acceptable performance.

General Requirements

The vendor must have technical service capability to provide the Borough of Somerset consultation and resolve field problems on site at no cost to the Borough for up to 12 days per year during the contract period.

All bid proposals shall be accompanied by the required material Safety Data Sheets in accordance with the Federal "right to know" regulations implemented by the Occupational Safety and Health Administration. No bids will be accepted without this required information.

Liability insurance requirements will be part of the final bid documents.

Vendor and/or manufacturer will be required to carry \$10 million of liability insurance. Certificate of Insurance will be required prior to issue of purchase order.

Delivery

Product will be delivered in returnable fifteen (15) gallon drums. Drums are to meet AWWA standards for transportation and storage of this product. All drums must be tamper-proof with sealed caps. Product with a broken seal will not be accepted upon delivery. Product is to be delivered to the Water Treatment Plant(s) identified by the Borough of Somerset; all freight costs to be paid by the supplier. The current estimated usage is 1,400 gallons annually.

<u>Locations</u>	<u>Estimated # of 15 Gallon Drums</u>
Laurel Hill WTP	24
Coxes Creek WTP	24
Quemahoning Chemical Feed Building	48

Only the Bid Form supplied by the Borough of Somerset may be used. No bidder may withdraw his bid within 60 days after the opening thereof. Place Bid Form in envelope with any descriptive material you wish to submit. In upper left corner of envelope print or type your firm's name and address; in center of envelope face, print or type:

CORROSION AND SCALE INHIBITOR BID
COUNCIL, BOROUGH OF SOMERSET
P.O. BOX 71
SOMERSET, PA 15501-0071

Bids must be received by 10:00 a.m. Monday, March 21, 2016 at which time the bids will be opened and read aloud. Council reserves the right to reject any and/or all bids so that the best interests of the Borough are served.

BIDS CLOSE 10:00 A.M. MONDAY, MARCH 21, 2016

**BOROUGH OF SOMERSET
BID FORM**

Corrosion and Scale Inhibitor

The undersigned proposes to supply the Borough of Somerset for the year 2016, a Liquid Blend Ortho/Poly Phosphate for use in its potable water system. Price shall be firm for one year.

Product Name: _____

Cost Per Gallon: _____

Product Requirement
Per million gallons
Of surface water: _____ **Gallons**

Cost/Million Gallons
.4 mg/l Orthophosphate
Residual \$ _____

Product Requirement
Per million gallons
Of well water: _____ **Gallons**

Cost/Million Gallons
.4 mg/l Orthophosphate
Residual \$ _____

Firm's Name: _____

By: _____

Address: _____

Phone: _____

Date: _____

BIDS CLOSE 10:00 A.M. MONDAY, MARCH 21, 2016