

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
OFFICE OF PROCUREMENT SERVICES
4200 SURFACE ROAD, COLUMBUS, OH 43228-1395

MANDATORY USE CONTRACT FOR: CHEMICALS FOR TREATMENT OF WATER AND WATER SANITATIONS

CONTRACT No.: RS901511

EFFECTIVE DATES: 06/01/11 to 04/30/14

The Department of Administrative Services has accepted bids submitted in response to Invitation to Bid No. RS901511 that opened on 03/30/11 and Invitation to Bid No. RS901611 that opened on 03/30/11. The evaluation of the bid response(s) has been completed. The bidder(s) listed herein have been determined to be the lowest responsive and responsible bidder(s) and have been awarded a contract for the items(s) listed. The respective bid response, including the [Terms and Conditions for Bidding, Standard Contract Terms and Conditions, and Supplemental Contract Terms and Conditions](#), special contract terms & conditions, any bid addenda, specifications, pricing schedules and any attachments incorporated by reference and accepted by DAS become a part of this Requirements Contract.

This Requirements Contract is effective beginning and ending on the dates noted above unless, prior to the expiration date, the Contract is renewed, terminated or cancelled in accordance with the Contract Terms and Conditions.

This Requirements Contract is available to all State agencies, State institutions of higher education and properly registered members of the Cooperative Purchasing Program of the Department of Administrative Services, as applicable.

Agencies are eligible to make purchases of the listed supplies and/or services in any amount and at any time as determined by the agency. The State makes no representation or guarantee that agencies will purchase the volume of supplies and/or services as advertised in the Invitation to Bid.

SPECIAL NOTE: State agencies may make purchases under this Requirements Contract up to \$2500.00 using the state of Ohio payment card. Any purchase that exceeds \$2500.00 will be made using the official state of Ohio purchase order (ADM-0523). Any non-state agency, institution of higher education or Cooperative Purchasing member will use forms applicable to their respective agency.

Questions regarding this and/or the Requirements Contract may be directed to:

Peggy J. Canada, CPPB
peggy.canada@das.state.oh.us

This Requirements Contract and any Amendments thereto are available from the DAS Web site at the following address:

<http://www.ohio.gov/procure>

Signed: _____ Date _____
Robert Blair, Director

TABLE OF CONTENTS

<u>CLAUSES</u>	<u>PAGE NO.</u>
Contract Award	3
Delivery	3
Evaluation	3
Minimum Order	3
Transportation Charges	3
Fixed Price with Economic Adjustment	4
Cooperative Purchasing Contract	5
Contractor Quarterly Sales Report	5
Contractor Revenue Share	6
Usage Reports	6
Specifications	7-19
<u>CONTRACT ITEMS</u>	
Price Schedule	20-22
Contractor Index	23

SPECIAL CONTRACT TERMS AND CONDITIONS

AMENDMENTS TO CONTRACT TERMS AND CONDITIONS: The following Amendments to the Contract Terms and Conditions do hereby become a part hereof. In the event that an amendment conflicts with the Contract Terms and Conditions, the Amendment will prevail.

DELIVERY AND ACCEPTANCE: Supplies will be delivered to the participating agency within twenty one (21) days after receipt of order and, in accordance with paragraphs S-8, S-9, and S-10 of the Supplemental Contract Terms and Conditions. The delivery location will be noted on the purchase order issued by the participating agency. Acceptance (transfer of title) will occur upon the inspection and written confirmation by the ordering agency that the supplies delivered conform to the requirements set forth in the Contract. Unless otherwise provided in the Contract, acceptance shall be conclusive except as regards to latent defects, fraud, or such gross mistakes as amount to fraud.

MINIMUM ORDER: No order shall be placed against a contract awarded pursuant to this bid for less than twenty-five (\$25.00) dollars. The minimum dollar value of any order placed against a contract awarded pursuant to this bid for delivery F.O.B. destination, transportation charges prepaid, at any one time to one destination, shall not be less than one hundred fifty (\$150.00) dollars.

ON ORDERS TOTALING LESS THAN ONE HUNDRED FIFTY (\$150.00) DOLLARS: Shipment is to be made by freight, parcel post, express or commercial package delivery, whichever is the most economical method for proper delivery of the item F.O.B. destination. The cost of transportation from the Contractor's address to the destination on such orders shall be prepaid and added to the invoice.

TRANSPORTATION CHARGES: Any item(s) ordered from a contract awarded pursuant to this bid shall be shipped F.O.B. destination, freight prepaid, unless noted in a Minimum Order clause above. Shipment shall be made to any state agency, state vocational school, state university, state community college or any properly registered cooperative purchasing participants located within the state of Ohio.

EVALUATION: Bids will be evaluated in accordance with Article I-17 of the "Instructions to Bidders". In addition, the state will award one (1) award per line item to the lowest responsive and responsible bidder. Line item award will be determined by multiplying the Unit Price which will include FOB Dest. Freight Prepaid by the estimated usage listed in the bid unless otherwise noted. Although there will be separate line item awards made, bidders are eligible to receive awards of multiple line items providing he/she is the lowest responsive and responsible bidder meeting all bid specifications and requirements listed within the line items. Items that have dilution rates or more than one container size to be quoted will be evaluated as follows:

Items #4, #5 and #6: The bid will be evaluated by line item based on dilution rate price per one hundred (100) pounds of laundry. Where concentration level ranges are listed by a bidder for a product the evaluation will be based on the maximum high range amount price per one hundred (100) pounds of laundry.

Items #3, #10, #11, #12, #14 and #19: The bid will be evaluated by line item based the average price quoted per gallon or pound. To determine the average price, the sum of the prices of all container sizes quoted for a line item will be divided by the number of container sizes quoted.

CONTRACT AWARD: There will be one (1) award per line item to the lowest responsive and responsible bidder meeting all bid specifications and requirements listed herein.

MATERIAL SAFETY DATA SHEET: The contractor shall provide, with all initial shipments, Material Safety Data Sheet (MSDS). The MSDS shall verify the contractor's compliance with OSHA's Hazard Communications Standard 29 CFR 1910.1200.

PRODUCT SAMPLES: The bidder(s) may be required to submit samples of the supplies being offered. The samples will be used in the evaluation process to determine the lowest responsive and responsible bidder. If not included as part of their bid response, the bidder will be required to provide the samples within ten (10) calendar days after notification. Failure to provide the samples within the stated time period will result in the bidder being deemed not responsive. After award of the contract, the samples will be used as a basis of comparison with actual product delivered under contract. Any variation between the samples and product being delivered will be considered as an event of default. Any variations between the samples and actual product being delivered that are due to manufacturer changes may be acceptable and shall require prior written approval from DAS.

AFFIDAVIT OF COMPLIANCE OR CERTIFIED ANALYSES: As part of the evaluation the state may require may require (1) an affidavit from the manufacturer or supplier that the product furnished under these specifications complies with all applicable requirements of ANSI/AWWA standards; (2) certified analyses of the product furnished by the manufacturer or supplier, covering such items as required; or (3) both. Cost, if any, for such affidavit or analyses shall be the responsibility of the manufacturer or contractor.

DOCUMENTATION: The following documentation is requested to be submitted with your bid. If not, the bidder must provide the said documentation within seven (7) business days, after notification, to the Office of State Purchasing. Failure to provide the documentation, as applicable, within the stated time period may result in the bidder being deemed as not responsive for applicable item(s).

- A. **Technical Data Sheet(s):** Bidder shall provide, with the bid response, a technical data sheet for each product offered in their bid response. Failure to submit technical data sheet(s) may deem your bid not responsive for applicable item(s).
- B. **Technical Data Sheet(s) For Items #4, #5 and #6:** Bidder shall provide, with the bid response, a technical data sheet for each product offered in their bid response. Concentration level of these products will vary in accordance with local water conditions, etc., and technical specification sheets should address the recommended concentration level range (number of ounces of the product per 100 pounds of laundry). The information on the technical data sheets shall coincide with the recommended usage indicated by the bidder on the bid pricing page. Any discrepancy between information provided on the bid pricing page and information provided on the technical data sheet(s) may deem your bid not responsive for applicable item(s). Failure to submit technical data sheet(s) may deem your bid not responsive for applicable item(s).

Material Safety Data Sheet(s): Bidder should submit, with the bid response, a Material Safety Data Sheet (MSDS) for each product offered on the bid. The MSDS' shall be designed to meet OSHA requirements pursuant to any hazardous effect which may be caused due to any chemical compound and/or formulation of the product offered. If the chemical composition of the compound(s) offered on the bid does not contain any hazardous effect, the MSDS must indicate same. Failure to submit MSDS' may deem your bid not responsive for applicable item(s).

- D. **Product Label(s):** Bidder should submit a product label for each product offered on the bid. Label should indicate directions for use, recommended usage, and precaution statements. If the product label does not indicate the recommended usage, such information shall be provided on some other documentation (e.g. technical data sheet). Such documentation shall not have been specifically printed for the state of Ohio and shall be information which is freely available as offered to other public and private commercial users. Failure to submit label(s) may deem your bid not responsive for applicable item(s).
- E. **Letter:** Bidder should submit a letter, signed by a duly authorized officer, attesting that the bidder has sufficient inventory capacity to meet the delivery requirements of the bid and that all products offered in the bid response meet or exceed bid specifications. Failure to submit letter may deem your bid not responsive.

FIXED-PRICE WITH ECONOMIC ADJUSTMENT: The contract prices(s) will remain firm for the first six (6) months duration of the contract. Thereafter, the Contractor may submit a request to increase their price(s) to be effective (30) calendar days after acceptance by DAS. No price adjustment will be permitted prior to the effective date of the increase received by the Contractor from his suppliers, or on purchase orders that are already being processed, or on purchase orders that have been filled and are awaiting shipment. If the Contractor receives orders requiring quarterly delivery, the increase will apply to all deliveries made after the effective date of the price increase.

The price increase must be supported by a general price increase in the cost of the finished supplies, due to increases in the cost of raw materials, labor, freight, Workers' Compensation and/or Unemployment Insurance, etc. Detailed documentation, to include a comparison list of the contract items and proposed price increases, must be submitted to support the requested increase. Supportive documentation should include, but is not limited to: copies of the old and the current price lists or similar documents which indicate the original base cost of the product to the Contractor and the corresponding increase, and/or copies of correspondence sent by the Contractor's supplier on the supplier's letterhead, which contain the above price information and explains the source of the increase in such areas as raw materials, freight, fuel or labor, etc. Additional supportive documentation should include invoices from sub-contractors, transportation, or raw material suppliers as applicable. Contractors shall retain copies of invoices from material suppliers for the duration of the contract and may provide copies upon request as justification.

Should there be a decrease in the cost of the finished product due to a general decline in the market or some other factor, the Contractor is responsible to notify DAS immediately. The price decrease adjustment will be incorporated into the contract and will be effective on all purchase orders issued after the effective date of the decrease. If the price decrease is a temporary decrease, such should be noted on the invoice. In the event that the temporary decrease is revoked, the contract pricing will be returned to the pricing in effect prior to the temporary decrease. For quarterly deliveries, any decrease will be applied to deliveries made after the effective date of the decrease. Failure to comply with this provision will be considered as a default and will be subject to the provisions of Article 6, "Contract Terms and Conditions".

COOPERATIVE PURCHASING CONTRACT: This Contract may be relied upon by Ohio institutions of higher education and Ohio political subdivisions. Ohio political subdivisions include any county, township, municipal corporation, school district, conservancy district, township park district, park district created under Chapter 1545 of the Revised Code, regional transit authority, regional airport authority, regional water and sewer district, port authority or any other political subdivision as described in the Ohio Revised Code. To qualify to use this Contract the political subdivision must be currently enrolled in the State's Cooperative Purchasing Program. Purchases made from this Contract by a political subdivision that is not properly registered with the State's Cooperative Purchasing Program will be a violation of law and may be contrary to the political subdivision's competitive bidding requirements. If a political subdivision or institution of higher education relies upon this Contract to issue a purchase order or other ordering document, the political subdivision or institution of higher education "steps into the shoes" of the State under this Contract. The political division's or institution of higher education's order and this Contract are between the Contractor and the political subdivision or institution of higher education. The Contractor must look solely to the political subdivision or institution of higher education for performance, including payment. The Contractor agrees to hold the state of Ohio harmless with regard to political subdivisions and institution of higher education's orders and political subdivision's and institution of higher education's performance. DAS may cancel this Contract and may seek remedies if the Contractor fails to honor its obligations under an order from a political subdivision or institution of higher education.

CONTRACTOR QUARTERLY SALES REPORT: The Contractor must report the quarterly dollar value (in U.S. dollars and rounded to the nearest whole dollar) of the sales, to include both state agencies and political subdivisions, under this Contract by calendar quarter (e.g. January-March, April-June, July-September and October-December). The dollar value of the sale is the price paid by the Contract user for the products and/or services listed on the purchase order or other encumbering document, as recorded by the Contractor.

The Contractor shall be required to report the quarterly dollar value of sales to the Department of Administrative Services (DAS) on a form prescribed by DAS. If no sales occur, the Contractor must show zero. The report must be submitted thirty (30) days following the completion of the reporting period.

The Contractor shall also submit a close-out report within one hundred and twenty (120) days after the expiration of this Contract. The Contract expires upon the physical completion of the last outstanding task or delivery order of the Contract. The close-out report must cover all sales not shown in the final quarterly report and reconcile all errors and credits. If the Contractor reported all contract sales and reconciled all errors and credits on the final quarterly report, then the Contractor should show zero "0" sales in the close-out report.

The Contractor must forward the Quarterly Sales Report to the following address:

Department of Administrative Services
General Services Division, Term Contract Program
4200 Surface Road
Columbus, OH 43228-1395

If the Contractor fails to submit sales reports, falsifies reports or fails to submit sales reports in a timely manner, DAS may terminate or cancel this Contract.

CONTRACTOR REVENUE SHARE: The Contractor must pay the Department of Administrative Services (DAS) a revenue share of the sales transacted under this contract. The Contractor must remit the revenue share in U.S. dollars within thirty (30) days after the end of the quarterly sales reporting period. The revenue share equals 0.75% of the total quarterly sales reported. Contractors must include the revenue share in their prices. The revenue share is included in the award price(s) and reflected in the total amount charged to ordering agencies which includes both state agencies and political subdivisions using this Contract.

The contractor must remit any monies due as the result of the close-out report at the time the close-out report is submitted to DAS. The Contractor must pay the revenue share amount due by check. To ensure the payment is credited properly, the Contractor must identify the check as a "Revenue Share" and include the following information with the payment:

Applicable State Term Contract Number, report amount(s) and the reporting period covered.

The Contractor should make the check payable to: Treasurer, State of Ohio and forward the check to the following address:

Department of Administrative Services
General Services Division – Term Contract Program
4200 Surface Road
Columbus, OH 43228-1395

If the full amount of the revenue share is not paid within thirty (30) calendar days after the end of the applicable reporting period, the non-payment constitutes a contract debt to the State. The State may either initiate withholding or setting off payments or employ the remedies available under Ohio law for the non-payment of the revenue share.

If the Contractor fails to pay the revenue share in a timely manner, DAS may terminate or cancel this Contract.

FEDERAL TAXPAYER IDENTIFICATION NUMBER: The Department of Administrative Services (Department) requires vendors and contractors wishing to do business with the State to provide their Federal Taxpayer Identification Number to the Department. The Department does this so that it can perform statutorily required "responsibility" analyses on those vendors and contractors doing business with the State and, under limited circumstances, for tax reporting purposes. If you are a vendor or contractor using your Social Security Number as your Federal Taxpayer Identification Number, please be aware that the information you submit is a public record, and the Department may be compelled by Ohio law to release Federal Taxpayer Identification Numbers as a public record. If you do not want to have your Social Security Number potentially disclosed as a Federal Taxpayer Identification Number, the Department encourages you to use a separate Employer Identification Number (EIN) obtained from the United States Internal Revenue Service's to serve as your Federal Taxpayer Identification Number.

USAGE REPORTS: Every three (3) months the Contractor must submit a report (written or on disk) indicating sales generated by this contract. The report shall list usage by customer, by line item, showing the quantities/dollars generated by this contract. The report shall be forwarded to the Office of State Purchasing, 4200 Surface Road, Columbus, OH 43228-1395, Attn: Peggy J. Canada, CPPB.

SPECIFICATIONS

I. SCOPE AND CLASSIFICATION

This bid and any resulting contract, is issued to obtain various chemicals (water treatment, laundry, boiler water sludge conditioning, re-circulating cooling water system, etc.) for various state agencies and members of the Cooperative Purchasing Program.

A. Classification

These specifications include, but are not limited to, chemical products for:

1. Laundry
2. Boiler water sludge conditioning
3. Re-circulating cooling water systems
4. Water treatment systems

II. APPLICABLE PUBLICATIONS

Where applicable, unless otherwise stated in these specifications, the following standards form a part OF these specifications.

- A. American Water Works Association Standards (AWWA) for Potassium Permanganate, Hydrofluosilicic Acid, Sodium Hydroxide, Aluminum Sulfate, Hypochlorites
- B. Federal Regulation 7-CFR-362
- C. Federal Regulation 21-CFR-201.3 (good manufacturing practices)
- D. Federal Regulation 40-CFR-162
- E. Federal Regulation 49-CFR-Subchapter C
- F. Federal Specification BB-C-1206
- G. Federal Specification O-S-571F (Anhydrous Sodium Carbonate)
- H. Federal Specification P-L-130C (Laundry Sour)
- I. Federal Specification O-S-635D (Sodium Hexametaphosphate)
- J. Federal Specification O-C-114B (Calcium Hypochlorite, Technical)
- K. FDA Regulations 121.1088 and 173.310
- L. EPA-Rules and Regulations for "Laundry Additives-Residual Self-Sanitization and Bacteriostasis"
- M. Protocol pub. by Petrocci and Clarke (J AOAC 52:836-842) and American Association of Textile Chemists and Colorists
- N. ASTM E-412
- O. ASTM D2022
- P. ASTM 2111
- Q. Military Specification MIL-V-2 III.

III. REQUIREMENTS

A. Hydrofluosilicic Acid (H₂SiF₆) - (Item 1)

1. Applicable Documents: AWWA Standard ANSI/AWWA #B703-97 and latest amendments thereof.

SPECIFICATIONS (Cont'd.)

2. Requirements: The product shall conform to the following:

<u>Property</u>	<u>Requirements</u>
Hydrofluosilicic Acid (H ₂ SiF ₆), wt. percent	25.0 min.
Arsenic (AS), wt. percent	0.025 max.
Antimony (Sb), wt. percent	0.025 max.
Lead (Pb)	0.02 max.
Iodine (I)	0.025 max.
Molecular Weight	144.08
pH of 1% solution	1.2
Density of 1% solution	10.29lb./gal.
Boiling Point	105.8 degrees C
Physical State	Aqueous Solution

3. Packaging: 55 gallon drums (approx. 550 lb.)

B. Potassium Permanganate (KMnO₄) – (Item 2)

1. Applicable Documents: AWWA Standard ANSI/AWWA #B603-98 and latest amendments thereof.
2. Condition: This product shall be a free flowing powder (suitable for either solid or solution) 97% by weight.
3. Requirements: The product shall conform to the following:

<u>Property</u>	<u>Requirements</u>
State	Solid
Color	Purple to Grayish hue
Molecular Weight	158
Melting Point	240° C
Density	2.703 g/ml
KMnO ₄ , wt. Percentage	97.0 min

4. Labeling: product must be labeled NSF Standard 60 (for Human Consumption).
5. Packaging: 110 gallon drum. Drums shall be ODOT authorized. Product must comply with applicable requirements with "good mfg. practices" as defined by Food and Drug Administration (FDA) part 210.3 of 21 Code of Federal Regulations (CFR).

C. Sodium Hydroxide Solution, 50% (NaOH Solution) – (Item 3)

1. Applicable Documents:
 - a. AWWA Standard ANSI/AWWA #B501-98 and latest amendments thereof.
 - b. FDA Federal Regulation 173.310
2. Requirements: Shall conform to the following:

<u>Property</u>	<u>Requirements</u>
Appearance	Colorless to slightly colored
Odor	No odor or faint odor
NaOH	50 ± 1%

SPECIFICATIONS (Cont'd.)

Water	Balance
Iron	20ppm max.
Boiling Point	Approx. 145°C
Specific Gravity	Approx. 1.52

3. Packaging: Sodium Hydroxide solution shall be available in bulk quantities--3,500 - 4,000 gallon transport load. Data sheet (documenting the chemical content and actual amount of the shipment) furnished at time of delivery.

D. Laundry Sour With Nile Blue Color – (Item 4)

1. This specification covers laundry sour with bluing agent and/or optical brightener.
2. Applicable Documents: Federal Specification P-L-130C; Type I, preferably light tint
3. Requirements: Laundry sour shall be a clean, uniform, free-flowing granulated powder containing a mixture of high neutralizing laundry sour components specified below:

<u>Property</u>	<u>Requirements</u>
Sodium Silico Fluoride, wt. percent	65 min.
Bluing Agent and remainder	2.5
pH of 0.2 percent solution	3.60

4. Neutralizing Capacity: It shall take not less than 500 mg. NaOH per gram of laundry sour to adjust the pH to 7.0 when tested.
5. Solubility: Ninety-five (95) percent of the laundry sour shall dissolve in water at 113°F within two (2) minutes.
6. Labeling: The containers shall be labeled in accordance with the Federal Hazardous Substances Act. Label shall contain the following information:
 - a. Recommended use dilution per 100 lb. of soiled laundry
 - b. Warning statement
 - c. Directions for use
7. Packaging: 100 lb. fiber drums

E. Fabric Softener – (Item 5)

1. Requirements: A Free flowing powdered textile softening agent containing cationic quaternary ammonium chloride compounds, fluorescent brightener and other compounds as given below:

<u>Property</u>	<u>Requirements</u>
Cationic quat. ammonium chloride, wt. percent	4 min. - 30 max.
Fluorescent brightener, salts, sulfates, carbonates	Remainder

2. Labeling: Label shall contain the following information:
 - a. Recommended use dilution per 100 lb. of soiled laundry
 - b. Warning statement, if any, and directions for use
3. Packaging: 100 lb. fiber drums

SPECIFICATIONS (Cont'd.)

F. Fabric Softener With Bacteriostat – (Item 6)

1. Applicable Documents:
 - a. Environmental Protection Agency - Rules and Regulations for "Laundry Additives - Residual Self-Sanitization and Bacteriostasis".
 - b. Protocol published by Petrocci and Clarke (J AOAC 52:836-842) and American Association of Textile Chemists and Colorist.
2. Requirements: A free flowing powdered fabric softener, shall have bacteriostatic properties against *S. aureus* (ATC 6538), *K. pneumoniae* (ATCC 4352) and *Protus mirabilis* (ATCC 9240) as required by E.P.A. for labels claiming residual microbial activity on laundered materials. Products shall conform to the following:

<u>Property</u>	<u>Requirements</u>
Cationic Quaternary Ammonium Chlorides, wt. Percent	4 min. - 25 max.
Phenolic derivatives, may contain	Optional
Brightener, salts, sulfates, carbonates, etc.	Remainder

3. Labeling: Label shall contain the following information:

- a. E.P.A. registration number
- b. Dosage requirement
- c. Warning statement, if any
- d. Directions for use

4. Intended Use: Hospital linens, etc.

5. Packaging: 100 lb. fiber drums

NOTE: If the product contains any amounts of 5 Chloro-2 (2,4-Dichlorophenoxy) Phenol, it shall not be used on baby diapers and a warning statement of such effect shall appear on the label.

G. Sodium Hexametaphosphate (NaP₀₃)₆ – (Item 7)

1. Applicable Documents: The American Water Works Association B502-94; Federal Specification 0-S-635D; Type II, Form 2 and latest amendments thereof.
2. Requirements: Clean, free flowing white granules of sodium hexametaphosphate, shall have no odor. The product shall be approved by the American Water Works Association and F.D.A. for treatment of potable water and boiler water additives which may be safely used in the preparation of steam which comes in contact with food as per Federal Register 121.1088. The product shall conform to the following:

<u>Property</u>	<u>Requirements</u>
Total P ₂₀₅ , wt. percent, min.	66.5
pH, 1% solution	6.6-7.0
Insoluble matter, wt. percent, max.	0.1

SPECIFICATIONS (Cont'd.)

Heavy metal (as Pb), ppm, max.	10
Density, bulk, lb./cu. ft., min.	84
Solubility, lb./gallon, min. at 75°F	12
Grade	granular

3. Packaging: 100 lb. bags

H. (Ground) Aluminum Sulfate (A1₂(SO₄)₃14H₂O – (Item 8)

1. Applicable Documents: The American Water Works Association B403-98; Federal Specification O-A-429C, Type I, Class 2 and any latest amendments thereof.
2. Classification: - Purified, ground hydrated aluminum sulfate.
3. Requirements: The product shall conform to the following:

<u>Property</u>	<u>Requirements</u>
Appearance	Ground
Grade	Commercial
Total soluble alumina as Al ₂ O ₃ , wt. percent	17.0 min.
Total avail. water soluble aluminum as Al, wt. percent	9.0 min.
Water soluble iron as Fe ₂ O ₃ , wt. percent	0.75 max.
Insoluble matters, wt. percent	0.5 max.
Specific gravity	1.61 approx.
pH 1% solution	3.5 approx.

4. Packaging: 50 lb. bags

I. (Liquid) Aluminum Sulfate (A1₂(SO₄)₃14H₂O – (Item 9)

1. Applicable Documents: The American Water Works Association B403-98; Federal Specification O-A-429C, and any latest amendments thereof.
2. Classification: Liquid Alum
3. Requirements: The product shall conform to the following:

<u>Property</u>	<u>Requirements</u>
Appearance	Clear Liquid
Grade	Commercial
Total soluble alumina as Al ₂ O ₃ , wt. percent	8.0 min.
Total avail. water soluble aluminum as Al, wt. percent	4.25 min.
Water soluble iron as Fe ₂ O ₃ , wt. percent	0.35 max.
Insoluble matters, wt. percent	0.2 max.
Specific gravity	1.33 approx.
pH 1% solution	3.5 approx.
Content	48.5% dry Al ₂ (SO ₄) ₃ 14H ₂ O in water min.

4. Packaging: 55 gals. drums

SPECIFICATIONS (Cont'd.)

J. Scale and Corrosion Inhibitor – (Item 10)

1. This product is to be used in recirculating cooling water systems to prevent the formation of scale and corrosion of the metal and shall include the following ingredients at the percentages shown.

<u>Composition</u>	<u>Minimum Percentage by Weight</u>
Dequest 2010 4.0% as HEDP	13.4
Polyacrylic Acid 2.0% as PAA	6.4
Tolytriazole 0.9% as TTA	4.0
Sodium Molybdate	2.0% as MoO ₄
Potassium Hydroxide or Sodium Hydroxide -	As needed for stabilization
Specific Gravity at 25°C:	1.2208

2. Packaging: 15, 30, 55 gal. non returnable drums (fiber drums unacceptable)

K. Biocide A – (Item 11)

1. This is a microbiocide for use in controlling the growth of algae, bacteria, and fungi found in recirculating cooling water systems.

2. Requirements:

<u>Composition</u>	<u>Minimum Percentage by Weight</u>
Microbiocide Z106	
Active Ingredient:	
Poly [oxyethylene (dimethyliminio) ethylene dichloride]	15 %
Inert Ingredients	<u>85 %</u>
Total:	100 %

3. Packaging: 15, 30, 55 gal. non returnable drums (fiber drums unacceptable)

L. Biocide B (Liquid) – (Item 12)

1. This is a microbiocide for use in controlling the growth of algae, bacteria, and fungi found in recirculating cooling water systems.

<u>Composition</u>	<u>Minimum Percentage by Weight</u>
Active Ingredients:	
5-chloro-2-met by 1-4-izothiazolin e-3-one	1.15 %
2-methyl-4-isothiazolin-3-one	0.35 %
Inert Ingredients	<u>98.50 %</u>
Total::	100.00 %

2. Packaging: 30 or 55 gal. non returnable drums (fiber drums unacceptable)

M. Biocide B (Pellets) – (Item 13)

1. This is a microbiocide for use in controlling the growth of algae, bacteria, and fungi found in recirculating cooling water systems.

SPECIFICATIONS (Cont'd.)

<u>Composition</u>	<u>Minimum Percentage by Weight</u>
--------------------	-------------------------------------

Active Ingredients:	
1-Bromo-3-Chloro-5, 5-dimethylhydantoin	96 %

INERT INGREDIENTS:	
Total:	<u>4 %</u> 100 %

2. Packaging: 50 lb. containers

N. Closed Recirculating System Treatment (Dry Formulation) – (Item 14)

1. This product is to be used in the closed recirculating systems, both hot and cold to prevent the formation of scale and corrosion of the metal and shall include the following ingredients at the percentages shown.

2. Condition: This product shall be a free flowing powder

<u>Property:</u>	<u>Percentage</u>
Sodium Nitrite	75.0 %
Sodium Tetraborate	24.5 %
Mercapto Benzothiazol	<u>0.5 %</u>
Total:	100.0 %

3. Packaging: 25, 50, 100 lb. drums

O. Closed Recirculating System Treatment (Liquid Formulation) – (Item 15)

1. This product is to be used in the closed recirculating systems, both hot and cold to prevent the formation of scale and corrosion of the metal and shall include the following ingredients at the percentages shown.

2. Condition: Clear, Light, Amber Liquid

<u>Property:</u>	<u>Percentage</u>
Demineralized Water	84.87 %
Sodium Nitrite	11.00 %
Sodium Tetraborate	3.18 %
Mercapto Benzothiazole	0.50 %
Sodium Hydrozide	0.15 %
50% Polyacrylic Acid	<u>0.30 %</u>
Total:	100.00 %

3. Packaging: 30 gal. plastic drums

4. Net Weight: 30 Gal. – 281 Lbs.

P. Sodium Hypochlorite (Solution) – (Item 16)

1. Classification: - This covers only Type I - 12.5% sodium hypochlorite (NaOCl) by weight.

2. Applicable Documents: - The following documents shall apply and any latest revisions thereof:

- a. Federal Specification O-S-602E
- b. ASTM D2022 - Standard methods of sampling and chemical analysis of chlorine containing bleaches.

SPECIFICATIONS (Cont'd.)

4. Ohio E.P.A. Registration - The product shall be registered by the Ohio E.P.A., as per rule 3745-83-03 of the Ohio Administrative Code, and shall comply to all the rules and regulations stipulated therein.
5. Shipping Requirements: - Calcium Hypochlorite will be packaged 100 lb. container or any other safe, industry standard container, approved by Dept. of Transportation.
6. Marking: - Labeling requirements of E.P.A. and/or DOT shall be fulfilled by the contractor.
7. Packaging: 100 lb. drums

R. Ferric Chloride (Liquid) – (Item 18)

1. Applicable Document: The following document shall apply and latest revision thereof: American Water Works Association B407-98, Liquid Ferric Chloride
2. Requirements:

<u>Composition</u>	<u>Requirements</u>
Ferric Chloride (FeCL3)	37% min.
Ferrous Chloride (FeCL2)	0.5% max.
Free Acid as HCl	0.9% max.
Insolubles (Anhydrous base)	0.2% max.
3. Ohio E.P.A. Registration - The product shall be registered by the Ohio E.P.A., as per Rule 3745-83-03 of the Ohio Administrative Code and shall comply to all the rules and regulations stipulated therein.
4. Packaging: - Liquid ferric chloride shall be packaged in 55 gallon drum with a minimum weight of 580 pounds.

S. Rotary Hydrated Lime – (Item 19)

1. Applicable Document: American Water Works Association Specification B202-93 and latest amendments thereof.
2. Requirements: Finely divided powder shall be free flowing. Hydrated lime shall not contain any impurities or heavy metals in quantities capable of producing deleterious or injurious effects upon the health of those consuming water that has been treated with this product. The product must be free of objectionable materials such as sand, pebbles, and core. Shall conform to the following:

<u>Property</u>	<u>Requirements</u>
Available Calcium Oxide CaO, wt. percent	73.0 min.
Available Calcium Hydroxide Ca(OH)2, wt. percent	96.5 min.
Magnesium Oxide MgO, wt. percent	0.4 max.
Silica, iron oxide, sulfur, wt. percent (total)	0.5 max.
Free H2O	0.7 max.
Calcium Carbonate CaCO3, wt. percent	1.0 max.
Ph	12.4
Mean Particle Size	2.0 Micron
Passing through 100 mesh, percent	100% min.
Passing through 325 mesh, percent	94% min.

3. Packaging 50 lb. bags or bulk

SPECIFICATIONS (Cont'd)

T. Quick Lime – (Item 20)

1. Applicable Documents: American Water Work Association Standard #B202-93 and any latest revision thereof. ASTM Specification C-53-77.
2. Requirements: Calcinated lime stone, shell or equivalent. Shall be in pebble form of approximately 1/2" size (Range 0.75" – 0.188"). Using agency may require on its purchase order that bulk shipments shall be accompanied by weight certificates of certified weighers or the weight may be checked by the purchaser at delivery. Quick lime shall conform to the following:

<u>Property</u>	<u>Requirements</u>
Available lime as CaO	93% - 97%
Calcium Carbonate CaCO ₃ , wt. percent	4.0 max.
Sulfur, wt. percent	0.05 max.
Silica, SiO ₂ , wt. percent	1.10 max.
Iron Oxide, Fe ₂ O ₃ , wt. percent	0.12 max.
Magnesium Oxide MgO, wt. percent	1.50 max.
LOI, Loss on Ignition	1.50 max.
Bulk Density	54-60 lb./cu. ft.
Reactivity	40°C temp. raise in 3 minutes and complete reaction in 10 minutes.

3. The quicklime shall be of the quality known as "quick slaking" and shall readily disintegrate into a suspension of fine powder.
4. Workmanship: AWWA Standard - the quicklime supplied under this standard shall contain no mineral or organic substances in quantities capable of producing deleterious, or injurious affects upon the health of those consuming water that has been treated with this product.
5. Approx. Minimum Order: 23 Tons

U. Cyclohexylamine Diethylaminoethanol Morpholine Neutralizing Amine – (Item 21)

1. Applicable Documents: FDA Regulation 121.1088
2. Intended use: This amine solution will be used to neutralize the carbonic acid from boilers with long or short circuit steam lines. This steam may come in contact with food.
3. Requirements:
 - a. Free flowing solution shall contain minimum of 20% by weight diethylaminoethanol and a minimum of 20% cyclohexylamine and 10% morpholine in water with stabilizing agents, if any.
 - b. Product shall be readily miscible in water and shall have light amber color.
 - c. Odor – Mild ammoniamal.
 - d. Bidder shall submit with the bid an affidavit stating the weight percent of diethylaminoethanol, cyclohexylamine and morpholine in the solution and total weight of liquid in drums.

SPECIFICATIONS (Cont'd)

- e. Specific gravity of this solution approximately 0.955.
 - f. Freezing point shall be less than 5 degrees F.
 - g. Ph of this solution shall be 12.3 ± 0.1 standard unit.
 - h. MSDS shall be for this product and not for the raw product.
4. Packaging - Packaged in nominal 30 gallon drums, liquid content shall be 30 gallon + pint. Fiber drums or drums with removable lids are not acceptable.

ITEMS 22, 23 and 24 - PREPAID F.O.B. - CENTRAL WAREHOUSE, 3201 ALBERTA ST., COLUMBUS, OH 43204

V. Boiler Water Sludge Conditioner – (Item 22)

- 1. Requirements:
 - a. Free flowing, liquid shall consist of these ingredients:

Sodium Polymethacrylate (molecular weight 4500-5500)	40 %
Inert	60 %
 - b. The product shall be Rohm & Haas Tamol 960 or equal.
 - c. The specific gravity in gm/cc @ 25°C shall be 1.282 +/- .010
 - d. If the weight percent of any component is higher than specified, provided it does not affect the consistency of the product, please state the actual percentage. The award will be based on the cost per pound of the active ingredient.
- 2. Packaging: Packaged in nominal 30 gallon drums, liquid content shall be 30 gallon + 1 pint if not shipped by weight. Fiber drums and drums with removable lids are not acceptable.
- 3. Minimum Shipment: 50 drums per order

W. Neutralizing Amine – (Item 23)

- 1. Applicable Document: FDA Regulation 121.1088
- 2. Intended use: This amine solution will be used to neutralize the carbonic acid from boilers with long or short circuit steam lines. This steam may come in contact with food.
- 3. Requirements:
 - a. Free-flowing solution shall contain minimum of 40% by weight diethylaminoethanol in demineralized water with stabilizing agents, if any.
 - b. Product shall be readily miscible in water and shall have light amber color.

SPECIFICATIONS (Cont'd)

- c. Odor - mild ammoniacal
 - d. Bidder shall submit with the bid an affidavit stating the weight percent of diethylaminoethanol in the solution and total weight and specific gravity of liquid in drums.
 - e. Freezing point shall be less than 5 degrees F.
 - f. MSDS shall be for this product and not for the raw product.
 - g. Product must be formulated so as not to be DOT regulated and not bear corrosive hazard warnings.
4. Packaging: Packaged in nominal 30 gallon drums, liquid content shall be 30 gallon + 1 pint, if not shipped by weight. Fiber drums or drums with removable lids are not acceptable.
5. Minimum Shipment: 50 drums per order
- X. Catalyzed Sodium Sulfite (Na₂So₃) – (Item 24)

- 1. Applicable Documents: Federal Specifications O-S-00650 and latest amendments thereof.
- 2. Requirements:
 - a. Catalyzed sodium sulfite shall be a free flowing powder which is to be used as an oxygen scavenger in boiler water treatment where the steam may come in contact with food.
 - b. Sodium sulfite supplied under this contract shall contain no mineral or organic substances in quantities capable of producing deleterious effects on its performance.

<u>Property</u>	<u>Requirements</u>
Sodium Sulfite, wt. percent	95 min.
Sodium Sulfate, wt. percent	4 max.
Sodium Carbonate, wt. percent	2 max.
Cobalt Sulfate Monohydrate, wt. percent	0.4 min.
Heavy Metals	less than 10 ppm
Sodium Chloride, wt. percent	1.0 max.

- 3. Packaging - 50 lb. bags
- 4. Minimum Shipment: 100 bags per order

IV. PACKAGING AND DELIVERY REQUIREMENTS

- A. Unless otherwise specified, all chemicals shall be packed in containers (drums, bags, etc.) to assure carrier acceptance and safe arrival at destination, at the lowest transportation rate, for such supplies. Containers shall be in compliance with Uniform Freight Classification or National Motor Freight Classification and/or Department of Transportation, as applicable
- B. Packaging and shipping of all Hypochlorites shall be in approved containers as outlined in the American Water Works Association (AWWA) standards and in accordance with Department of Transportation regulations.

SPECIFICATIONS (Cont'd)

- C. Drums: Unless otherwise specified, all drums shall be lever-pak or lock-rim type (both those types must have lid liners). Drums shall be leak-free, in good condition, clean and rust resistant to avoid having the contents contaminated.
- D. Bags: Shall be multiwall bags in good condition as standard to the industry.
- E. Pallets: All bags shall be shipped on 48" x 40" four-way pallets meeting GMA standards. Bidder shall indicate cost of pallets where applicable.
- F. Packaging and shipping: Water treatment chemicals for cooling towers, SC Inhibitor (Item 10) and Biocide A (Item 11) shall be packaged in fifteen (15), thirty (30) and fifty-five (55) gallon non-returnable drums. Biocide B (liquid) (Item 12) shall be packaged in thirty (30) and fifty-five (55) gallon non-returnable drums. Biocide B (pellets) (Item 13) shall be packaged in fifty (50) pound containers to assure carrier acceptance and safe arrival at destination. Containers shall be in compliance with the Uniform Freight Classification or National Motor Freight Classification and/or Department of Transportation regulations, as applicable. Fiber drums are not acceptable for liquid products.

V. WORKMANSHIP

All liquid chemicals specified herein shall be blended properly and shall not indicate precipitation. Composition, specified by the vendor, shall be maintained throughout the life of this contract. Products not meeting the workmanship requirements shall be returned to the contractor at his own expense.

PRICE SCHEDULE

ITEM NO.	OAKS ITEM ID. NO.	DESCRIPTION	CONTAINER CAPACITY	CONCENTRATION RANGE PER 100# LAUNDRY (WHERE APPLICABLE)	MANUFACTURER & BRAND NAME	UNIT PRICE - FOB DEST. FREIGHT PREPAID	CONTRACTOR
1	0038	Hydrofluosilicic Acid	55 Gal. Drum	0.75 oz.	Ecolab Inc. 16158 Eco-Star Sour	\$ 6.10 per Gal.	ECOLAB
2	9919	Potassium Permanganate	55 Lb. Drum			\$ per Lb.	NO AWARD*
3	19218	Sodium Hydroxide Solution, Minimum Shipment 45,000 Lbs.	Bulk	50% Solution (Wet)		\$.15 per Lb.	ALTIVIA
4	7813	Laundry Sour With Nile Blue Color	50 Lb. Drum	1 oz. to oz. 1	Ecolab #71209 Econo Sour #100 lb.	\$ 1.20 per Lb.	ECOLAB, INC.
5	2683	Fabric Softener	100 Lb. Drum	0.5 oz. to oz. 1	Ecolab #70086 Tex Special #100 lb.	\$ 1.15 per Lb.	ECOLAB, INC.
6	7604	Fabric Softener With Bacteriostat	100 Lb. Drum	5 oz. to oz. 5	Ecolab #17418 Bacstate Liquid 5 gal.	\$ 10 .30 per Lb.	ECOLAB, INC.
7	5414	Sodium Hexametaphosphate	50 Lb. Bag			\$ per Lb.	NO AWARD*
8	18034	Aluminum Sulfate (Ground)	50 Lb. Bag			\$ per Lb.	NO AWARD*
9	18035	Aluminum Sulfate (Liquid)	55 Gal. Drum			\$ per Gal.	NO AWARD*

*To advise product has not been awarded on this contract. Using agency shall procure items through Direct Procurement Authority pursuant of Ohio Revised Code Section 125.05.

PRICE SCHEDULE (cont'd.)

ITEM NO.	OAKS ITEM ID. NO.	DESCRIPTION	CONTAINER CAPACITY	MANUFACTURER & BRAND NAME	SHIPMENTS OF	UNIT PRICE - FOB DEST. FREIGHT PREPAID	CONTRACTOR
10	19219	Scale and Corrosion Inhibitor	15 Gal. Drum	SC INHIBITOR	15 Gals.	\$ 10.60 per Gal.	QUES INDUSTRIES
	19220		30 Gal. Drum	SC INHIBITOR	30 Gals.	\$ 9.35 per Gal.	QUES INDUSTRIES
	19221		55 Gal. Drum	SC INHIBITOR	55 Gals.	\$ 8.10 per Gal.	QUES INDUSTRIES
11	9914	Biocide A	15 Gal. Drum	QUES 2106	15 Gals.	\$ 13.10 per Gal.	QUES INDUSTRIES
	5171		30 Gal. Drum	QUES 2106	30 Gals.	\$ 12.05 per Gal.	QUES INDUSTRIES
	9915		55 Gal. Drum	QUES 2106	55 Gals.	\$ 10.80 per Gal.	QUES INDUSTRIES
12	5172	Biocide B (Liquid)	30 Gal. Drum	QUES 2108CF	30 Gals.	\$ 15.05 per Gal.	QUES INDUSTRIES
	9916		55 Gal. Drum	QUES 2108CF	55 Gals.	\$ 13.80 per Gal.	QUES INDUSTRIES
13	5173	Biocide B (Pellets)	50 Lbs.	QUESBROM	50 Lb. Cont.	\$ 4.75 per Gal.	QUES INDUSTRIES
14	5176	Closed Re-circulating System Treatment (Dry)	25 Lb. Drum	CRSTD	25 Lb.	\$ 1.55 per Gal.	QUES INDUSTRIES
	9920		50 Lb. Drum	CRSTD	50 Lb.	\$ 1.35 per Gal.	QUES INDUSTRIES
	5177		100 Lb. Drum	CRSTD	100 Lb.	\$ 1.15 per Gal.	QUES INDUSTRIES
15	9938	Closed Re-circulating System Treatment (Liquid)	30 Gal. Drum	CRSTL	30 Gal.	\$ 6.589 per Gal.	QUES INDUSTRIES

*To advise product has not been awarded on this contract. Using agency shall procure items through Direct Procurement Authority pursuant of Ohio Revised Code Section 125.05.

PRICE SCHEDULE (cont'd.)

ITEM NO.	OAKS ITEM ID. NO.	DESCRIPTION	CONTAINER CAPACITY	MANUFACTURER & BRAND NAME	SHIPMENTS OF	UNIT PRICE - FOB DEST. FREIGHT PREPAID	CONTRACTOR
16	18036	Sodium Hypochlorite Solution Minimum Shipment	15 Gal. Drum		15 Gal.	\$ per Gal.	NO AWARD*
17	18037	Calcium Hypochlorite (Granular) Minimum Shipment	100 Lb. Drum		100 Lb.	\$ per Lb.	NO AWARD*
18	9939	Ferric Chloride Minimum Shipment	55 Gal. Drum		55 Gal.	\$ per Liq. Lb.	NO AWARD*
19	18038	Rotary Hydrated Lime	50 Lb. Bag		Bulk	\$ per Lb.	NO AWARD*
	18039	Minimum Shipment	Bulk		Bulk	\$ per Ton	NO AWARD*
20	18040	Quick Lime Minimum Shipment	Bulk		Bulk	\$ per Ton	NO AWARD*
21	0040	Cyclohexylamine Diethylaminoethanol Morpholine Neutralizing Amine	30 Gal. Drum	State of Ohio Triamine	30 Gal. Drum	\$ 10.85 per Gal.	QUES INDUSTRIES
22	19222	Boiler Water Sludge Conditioner Net Weight per Drum	30 Gal. Drum	BWSC	50-30 Gal. Drums	\$ 1.54 per Lb.	QUES INDUSTRIES
23	5347	Neutralizing Amine	30 Gal. Drum	40% DEAE	50 -30 Gal. Drums	\$ 1.00 per Lb.	QUES INDUSTRIES
24	5178	Catalyzed Sodium Sulfite	50 Lb. Bag	Catalyzed Sodium Sulfite 1202C	100 – 50 Lb. Bags	\$.69 per Lb.	QUES INDUSTRIES
25	18041	Sulfur Dioxide	60 Cyl.		150 lb. Cyl.	\$ per 150 lb. Cyl.	NO AWARD*
26	18042	Chlorine Gas	460 Cyl.		150 lb. Cyl.	\$ per 150 lb. Cyl.	NO AWARD*

*To advise product has not been awarded on this contract. Using agency shall procure items through Direct Procurement Authority pursuant of Ohio Revised Code Section 125.05.

CONTRACTORS INDEX

CONTRACTOR AND TERMS:

VENDOR I.D. 191784
ALITIVIA Corporation
1100 Louisiana, Ste. 3160
Houston, TX 77002

BID CONTRACT NO.: RS901511-4 (04/30/14)

DELIVERY: Within 21 Days A.R.O.

TERMS: Net 30 Days

CONTRACTOR'S CONTACT: Gayle Tullier

Toll Free: (866) 258-4842
Telephone: (713) 658-0102
FAX: (713) 658-0102

E-mail: gtollefsen@ATLIVIA.com

ITEM ID NO.: 4473 - Freight charges on orders totaling less than \$150.00.

CONTRACTOR AND TERMS:

VENDOR I.D. 99448
Ecolab, Inc.
370 Wabasha St.
St. Paul, MN 55102

BID CONTRACT NO.: RS901511-2 (04/30/14)

DELIVERY: Within 21 Days A.R.O.

TERMS: Net 30 Days

REMITTANCE ADDRESS:

Ecolab, Inc.
P.O. Box 905327
Charlotte, NC 28290

CONTRACTOR'S CONTACT: Bruce Kottom

Toll Free: (800) 352-5326
Telephone: (651) 293-2892
FAX: (651) 293-2682

E-mail: bruce.kottom@ecolab.com

ITEM ID NO.: 4756 - Freight charges on orders totaling less than \$150.00.

CONTRACTOR AND TERMS:

VENDOR I.D. 60295
Ques Industries, Inc.
5420 West 140th Street
Cleveland, OH 44142

BID CONTRACT NO.: RS901511-3 (04/30/14)

DELIVERY: Within 21 Days A.R.O.

TERMS: Net 30 Days

CONTRACTOR'S CONTACT: Quent Meng,

Toll Free: (800) 340-8989
Telephone: (216) 267-8989
FAX: (216) 267-8998

E-mail: quent@quesinc.com

ITEM ID NO.: 12933 - Freight charges on orders totaling less than \$150.00.