



Village of Archbold Water Department
archbold.com

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Archbold, Ohio 43502
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Scott L. Schultz Superintendent
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LEGAL NOTICE

SEALED BIDS will be received by the Village Administrator of the Village of Archbold, Ohio, at the Office of said Administrator in the Municipal Building, 300 North Defiance Street P.O. Box 406 Archbold, Ohio, until 10:00 a.m, D.S.T. on the 15th day of October 2020 for furnishing the Village of Archbold with all quick lime, ferrous chloride, liquid chlorine, activated carbon, potassium permanganate, sodium tri-polyphosphates, hydrofluosilicic acid, liquid carbon dioxide, caustic soda, liquid ferric chloride, sodium hypochlorite, rock salt and sodium carbonate peroxyhydrate to be used in the Municipal Water and Wastewater Systems of said Village during the year of 2021, in such amounts as may be ordered from time to time during the contract year, according to the specifications on file in the Village Administrator's Office of said Village.

SUCH BID must be made on the forms supplied by the Village and must contain the full name of the person or company interested in the same, and be accompanied by a Surety Bond in the amount of \$500.00, or a Certified Check in the amount of \$200.00 on some solvent bank as a guaranty that if the bids are accepted a contract will be entered into and its performance properly secured. Should any bid be rejected, such check will be forthwith returned to the bidder and should any bid be accepted, such check will be returned upon the proper execution and securing of a contract.

THE RIGHT is reserved by the Village Council of the Village of Archbold, Ohio, to reject any and all bids, or to waive informalities in bidding in the interest of the Village.

Scott Schultz
Archbold Water Department Superintendent

**CHEMICALS TO BE SUPPLIED
TO THE VILLAGE OF ARCHBOLD, OHIO
FOR 2021**

Quick Lime - - - - -	850 tons more or less
Liquid Chlorine - - - - -	30 tons more or less
Sodium Hypochlorite - - - - -	45,000 gallons more or less
Ferrous Chloride - - - - -	50,000 gallons more or less
Activated Carbon - - - - -	50 tons more or less
Sodium Tri-polyphosphate - - - - -	3 tons more or less
Potassium Permanganate, free flowing -	4 tons more or less
Potassium Permanganate, nuggets - - - -	5 tons more or less
Liquid Carbon Dioxide - - - - -	70 tons more or less
Hydrofluosilicic Acid - - - - -	10 tons more or less
Liquid Ferric Chloride - - - - -	60 dry tons more or less
Caustic Soda - - - - -	50 dry tons more or less
Coarse Rock Salt- - - - -	100 dry tons more or less
Sodium Carbonate Peroxyhydrate - - -	2 tons more or less

"NOTE"

The bidder shall provide a toll-free or collect-call telephone number for the ordering of chemicals.

The bidder shall make himself acquainted with the unloading equipment and the methods which are used at the Water and Wastewater Treatment Plants.

All shipments must be adaptable to these methods and equipment.

All shipments to the water plant must be received between 0500-1500 Monday thru Friday
All shipments to the waste water plant must be received between 0700-1430 Monday thru Friday

All shipments shall be by truck. All delivery trucks with palletized materials shall be equipped with a pallet jack for unloading purposes.

All bids shall be F.O.B. Archbold, Ohio.

A typical analysis of each chemical to be supplied by the bidder shall be included in these bids According to Rule 3745-83-03 of the Ohio Administrative Code all chemicals used in a public water system must be approved by the National Sanitation Foundation or Underwriters Laboratories. Bids for chlorine, lime, ferric chloride, sodium tripolyphosphate, potassium permanganate, liquid carbon dioxide, hydrofluosilicic, copper sulfate, caustic soda, activated carbon and sodium carbonate peroxyhydrate will **not** be accepted unless accompanied by written approval from one of these organizations. The approval must refer to the specific production facility which will be supplying the chemical. **OHIO EPA DOES NOT APPROVE CHEMICALS USED IN DRINKING WATER. OEPA APPROVALS FROM PREVIOUS YEARS ARE NOT VALID AND WILL NOT BE ACCEPTED.**

Bids shall be submitted on forms supplied by the Village of Archbold, Ohio.

Each bid must be marked "**BID FOR CHEMICALS 2021**".

QUICK LIME 850 tons more or less, shall conform to the AWWA specifications B202-07 standards for quick lime. Purchases will be based on 90 percent available calcium oxide content. Purchase will be based on approximately 25 ton truckload lots to be delivered to the Water and Wastewater Plants. Quick lime shall be supplied in bulk with the pebble size of 3/4 to 1-inch in diameter. **Proof of NSF or UL approval for use in potable water must be supplied. Price shall be bid per ton.**

LIQUID CHLORINE 30 tons more or less, shall conform to the AWWA specifications B301-10 standards for liquid chlorine. Liquid chlorine shall be packaged in one-ton cylinders made especially for this purpose. Water Department purchases will be made in 1-ton lots. Wastewater Department purchases will be made in 1 ton lots. The owner of the cylinders shall pay for their return. **Proof of NSF or UL approval for use in potable water must be supplied.** Deliveries shall be to the Water and Wastewater Treatment Plants. **Price shall be bid per ton.**

FERROUS CHLORIDE (PICKLE LIQUOR) 50,000 gallons more or less, Concentration - 8% - 13% Fe; Free Acid - 1.5% approximate; Specific Gravity - 1.17 to 1.35. Filtration - Ferrrous Chloride is to be filtered through a filter mesh of at least 300 microns. Bidder shall include in the bid a description of how this filtration will be accomplished. Crystallization - No crystallization to -20 Degrees F; Heavy Metals - Heavy Metals concentration shall not interfere with the biological processes and/or sludge quality for land application. Bidder must supply laboratory analysis showing heavy metal concentration of the proposed Ferrous Chloride. Shipments shall be delivered in self unloading truck loads of 4500 to 5000 gallons to the Wastewater Treatment Plant. Shipper is responsible for making proper connections to the Village's storage tank. Bidder shall specify how many years he/she has been providing Ferrous Chloride to municipalities. Bidder shall also provide a list of municipalities which are currently purchasing Ferrous Chloride. **Bid price shall be per pound of Iron (Fe) and include delivery.**

POWDERED ACTIVATED CARBON 50 tons more or less, shall conform with AWWA specifications B600-10 standards for activated carbon. Powdered activated carbon shall be delivered in bulk truckload with blower in truckloads of 25 tons. The powdered activated carbon supplied shall be in the type and quality suitable for use in the treatment of a public water supply. It shall have the property to remove objectionable tastes and odor producing materials, and also have the property to remove herbicides such as atrazine and related compounds. The Village reserves the right to purchase carbon with an iodine number in the ranges of 500 mg/g to 968 mg/g also Total Organic Compound (TOC) removal. Carbon product is subject to request from the village for TOC removal using Archbold raw water as test water. Documentation of proven product capability must accompany bid. The Village purchases will be made in 20 to 25 ton lots. Delivery shall be to the Water Treatment Plant. **Proof of NSF or UL approval for use in potable water must be supplied.**
Price shall be bid per ton

SODIUM TRI-POLYPHOSPHATES 3 tons more or less, shall conform with AWWA specifications B503-11 standards for sodium tri-polyphosphates. Granular light sodium tri-polyphosphate shall be packaged in 50-pound multi-walled bags (moisture-proof bags). The tri-polyphosphate supplied shall be suitable for use in the treatment of a public water supply. It shall have the property to sequester excess calcium carbonate or iron that may be present in a water supply. The purchase will be made in 1 or 2-ton lots. Delivery shall be to east side of the Water Treatment Plant. **Proof of NSF or UL approval for use in potable water must be supplied.** **Price shall be bid per ton.**

POTASSIUM PERMANGANATE, FREE FLOWING. 4 tons more or less, shall conform to the AWWA specifications B603-10 standards for potassium permanganate. All material shall be acceptable for use in the treatment of municipal water. The **free-flowing** grade is required. The potassium permanganate shall contain not less than 95 percent by weight. Damaged containers will not be accepted. Delivery shall be to the west side of the Water Treatment Plant. The only acceptable packaging will be 25 kg plastic pails or 55 kg drums. Drums and pails must be palletized and shrink wrapped. **Proof of NSF or UL approval for use in potable water must be supplied.** **Price shall be bid per ton.**

POTASSIUM PERMANGANATE, NUGGET 5 tons more or less, shall conform to the AWWA specifications B603-10 standards for potassium permanganate. All material shall be acceptable for use in the treatment of municipal water. The **nugget** grade is required. The potassium permanganate shall contain not less than 95 percent by weight. Damaged containers will not be accepted. Delivery shall be to the west side of the Water Treatment Plant. The only acceptable packaging will be 25 kg plastic pails or 55 kg drums. Drums and pails must be palletized and shrink wrapped. **Proof of NSF or UL approval for use in potable water must be supplied.** **Price shall be bid per ton.**

LIQUID CARBON DIOXIDE 70 tons more or less, shall conform to AWWA specifications B510-95 standards, as well as the United States FDA specifications for Water Treatment Plant chemicals. Deliveries where the Village's Water Treatment Plant personnel will be required to assist in unloading shall be made before 4:00 p.m. to facilitate unloading at regular hours. The Village owns a 6-ton CO₂ storage tank which is located at the rear of the Water Treatment Plant and is accessible via a blacktop driveway. The supplier will be required to fill and keep supplied on a regular basis the existing storage tank. The Village's usage will be approximately 480 pounds per day. Delivery shall be made to the Water Treatment Plant. The supplier shall be a firm established in the production and distribution of liquid carbon dioxide. **Proof of NSF or UL approval for use in potable water must be supplied.** **Bid price shall be per ton.**

HYDROFLUOSILICIC ACID 10 tons more or less, shall conform to the AWWA specifications B703-11 standards, for hydrofluosilicic acid. Delivered in 55-gallon plastic returnable drums of 25% H₂SiF₆, 550 lbs per drum. The owner of the drums shall pay for their return. Delivery shall be to the Water Treatment Plant. **Proof of NSF or UL approval for use in potable water must be supplied.** **Bid price shall be per ton.**

LIQUID FERRIC CHLORIDE 60 dry tons more or less shall conform to the AWWA specifications B407-12 for liquid ferric chloride. It shall be food grade suitable for the purification of potable water. Analysis shall be furnished with each truckload. It shall contain approximately 35% ferric chloride. To be delivered in truckload lots of approximately 4,000 gallons. The supplier shall provide pumps for pumping the solution to the Village storage facilities. The Village facilities consist of two (2) 3,000 gallon tanks. Delivery shall be made to the Water Treatment Plant. **Proof of NSF or UL approval for use in potable water must be supplied.** **Bid price shall be per ton.**

CAUSTIC SODA, 50% 50 dry tons more or less shall conform to AWWA specification B501-08 and ANSI/NSF Standard 60. Material shall be supplied in a 50% sodium hydroxide solution by weight. An analysis of each truck load delivered shall be supplied. Delivery shall be in bulk truckloads of approximately 4,000 gallons or less. The delivery truck shall be equipped with all pumping equipment to deliver product into one of the Village's two underground bulk storage tanks. Delivery shall be made to the Water Treatment Plant. **Proof of NSF or UL approval for use in potable water must be supplied.** **Bid price shall be per ton.**

SODIUM CARBONATE PEROXYHYDRATE 2 tons more or less, shall be USEPA approved and NSF certified for drinking water. The free flowing grade is required. Will contain active ingredients of sodium carbonate peroxyhydrate and come packaged Sodium carbonate peroxyhydrate and carry the UN Identification UN3378, in 50lb multiwall kraft bags. Bags must be palletized and shrink wrapped. Damaged bags will not be accepted. Delivery shall be to the west side of the Water Treatment Plant. **Proof of NSF or UL approval for use in potable water must be supplied.** **Bid price shall be per ton.**

SODIUM HYPOCHLORITE minimum 12.5%, 45,000 gallons more or less, shall conform fully to the most current AWWA Standard B300. The material is to be manufactured only, no by-products. It will be chemically and physically suitable for chlorination of water, containing a minimum of 15% available chlorine by weight (trade percentage). The solution will not contain more than 0.15 percent soluble matter by weight. In addition the solution, shall have the following properties and specifications. NaOCl, %wt of 12.5 minimum, NaOH less than 12gm/liter, Available Cl₂, %wt 12.0 minimum, Available Cl₂ % volume 15.0 minimum, Available Cl₂ grams/liter 150 minimum, Specific Gravity 20 degrees C 1.223 (approx), Density, 20 degrees C lbs/gal 10.20 (approx), Color Greensih-yellow. Deliveries shall be made by tank truck equipped with proper unloading pump in the volume of 4000 gallons per delivery. **Bid price shall be per gallon.**

COARSE ROCK SALT 200 tons more or less, shall be manufactured in compliance with American Water Works Association Standard B200-07. Delivery shall be in 20-25 ton and unloaded pneumatically. **Bid price shall be per ton.**

COARSE ROCK SALT

PRODUCTION LOCATION

Cote Blanche, Louisiana

PRODUCT DESCRIPTION

Rock salt obtained by conventional mining methods, crushed, and screened to size.

Compass Minerals Coarse Rock Salt is manufactured in compliance with American Water Works Association Standard B200-07.

TYPICAL SCREEN ANALYSIS

Retained and Cumulative (99.7% Confidence)

U.S.S Mesh	Tyler Mesh	Open. (In.)	Ret. %	Range %	Cum. %	Range %
3/8	0.375	0.3750	8.5	4 – 21	8.5	4 – 21
0.265	3	0.2650	25.8	7 – 47	34.3	4 – 64
4	4	0.1879	20.7	12 – 30	55.0	21 – 89
6	6	0.1320	23.2	11 – 36	78.3	48 – 100
8	8	0.0937	12.1	0 – 23	90.3	70 – 100
12	10	0.0661	4.8	0 – 12	95.2	81 – 100
16	14	0.0469	2.6	0 – 9	97.8	89 – 100
Pan	Pan		2.2	0 – 10	100.0	

Average Particle Size 0.207 inches (3.78 mesh)

PHYSICAL PROPERTIES

Bulk Density 74 lbs/cubic foot

Chemical Analysis (99.7% Confidence)			Typical	Range
Sodium Chloride	NaCl	(%)	98.60	97.70 – 99.49
Calcium Sulfate	CaSO ₄	(%)	1.21	0.08 – 1.92
Calcium Chloride	CaCl ₂	(%)	0.04	0.00 – 0.26
Magnesium Sulfate	MgSO ₄	(%)	0.00	0.00 – 0.01
Magnesium Chloride	MgCl ₂	(%)	0.01	0.00 – 0.11
Sodium Sulfate	Na ₂ SO ₄	(%)	0.12	0.00 – 0.53
Moisture		(%)	0.03	0.00 – 0.10
Water Insolubles		(%)	0.12	0.00 – 0.78
Calcium	Ca	ppm	3440	294 – 6587
Magnesium	Mg	ppm	8	0 – 26
Sulfate	SO ₄	ppm	8761	1408 – 16005

METHOD OF ANALYSIS

American Society for Testing and Materials Procedures E534 and D632. All other testing is from Compass Minerals' internal quality control procedures, which are available upon request.

Product Description and Codes	UPC code	Product Code
Bulk		7517

ADMIXTURE

No additives – pure salt

PLEASE INCLUDE THIS FORM WITH EACH CHEMICAL THAT IS BID

Name of chemical to be supplied _____

Total delivered price:

Chemical price _____
(Must be bid in quantity specified)

*There shall be **no** transportation surcharges until such time as the national average weekly retail price for diesel fuel exceeds \$4.00 per gallon, as published on the US Department of Energy website. When the national index price exceeds \$4.00 per gallon, a \$15.00 per delivery surcharge may be applied. Should the national index price exceed \$5.00 per gallon, the allowed surcharge shall be \$25.00 per delivery. If the national index price exceeds \$6.00 per gallon, the supplier under contract shall contact the Village Administrator to negotiate a fair surcharge. In all cases, when diesel fuel falls below the threshold price, the surcharge shall be removed.*

Number of days required for delivery _____

Demurrage rate _____

Deposit rate _____
(if applicable)

List any exceptions or deviations to the Village of Archbold's chemical specifications:

Any major exceptions to these specifications shall be considered sufficient cause for rejection of bid.

REQUIRED - list toll-free or collect-call telephone number for the ordering of chemicals.

Include analysis of chemicals to be supplied:

NOTE: National Sanitation Foundation or Underwriters Laboratories Approvals shall be submitted. Failure to submit approvals with bid will result in rejection of bid.

BIDDER'S FORM

Enclosed herewith is my ____ Bid Bond in the amount of \$500.00, or ____ Certified Check in the amount of \$200.00 to be used as a security so that a contract could be entered into in the event that my bid would be accepted. (Please check the appropriate box.)

Name of Bidder _____

Address _____

Telephone Number _____

Contact printed name _____

Contact email address _____

Ordering printed name _____

Ordering email address _____

Signed by _____
Authorized Representative

Printed Name