



DATE: APRIL 25, 2022

## REQUEST FOR SEALED BID PROPOSAL

CITY OF SAGINAW- PURCHASING OFFICE  
RM #105, CITY HALL  
1315 S. WASHINGTON AVENUE  
SAGINAW, MICHIGAN 48601  
(989) 759-1483

**SEALED BID: #P1873-22**

**DUE BY: MAY 10, 2022 @ 3:00 PM**

THE CITY OF SAGINAW IS SOLICITING SEALED BID PROPOSALS FOR WATER TREATMENT AND WASTE WATER TREATMENT CHEMICALS WITH SPECIFICATIONS AS FOLLOWS: BIDS MUST BE RECEIVED IN THE PURCHASING OFFICE, 1315 S. WASHINGTON AVE., SAGINAW, MI 48601, RM #105, PRIOR TO 3:00 PM ON THE BID OPENING DATE. EACH CITY RESERVES THE RIGHT TO SPLIT SAID BID TO THEIR BEST BENEFIT.

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The Purchasing Office closes at 4:00pm daily. Bids may be hand-delivered prior to the above mentioned deadline.

"All or None" means bidders are required to submit pricing for all years and/or all items requested. Any proposal received that does not meet this requirement may be disqualified. If said bid is not listed as "All or None" the City reserves the right to split said bid to our best benefit.

**WE DO NOT ACCEPT SEALED BIDS VIA FAX OR EMAIL.** A hard copy of this document is available on the City of Saginaw web site, [www.saginaw-mi.com](http://www.saginaw-mi.com), click on the "Find A Bid" tab. You can also refer to this site for information on future bid requirements as well as bid results.

Substitutions and Alternates: If a document is issued with the language "No Substitutions", then none will be considered. If a document does not include this language the respective bidder can include a substitution and/or alternate of which the City reserves the right to determine equivalent.

A bid tabulation sheet showing the initial results will be posted on our website within 48 hours of the bid opening date. Once the respective department reviews the bids they will make a recommendation on who our City Council should award the bid to. At that time the recommendation will also be posted on the tabulation sheet as a secondary notice. If you receive a bid copy from our web site, and have never conducted business with us you can also complete a copy of our "Vendor Compliance Form" and return it to us or contact our Purchasing Office so you can be formally added to the respective bidders list for that good or service. (989) 759-1430.

BIDDER NAME: \_\_\_\_\_

**PROPOSAL FORM FOR BID NO. P1873-22**  
**ANNUAL WATER & WASTEWATER TREATMENT CHEMICALS**  
**BID OPENING: May 10, 2022 AT 3:00 P.M.**

In compliance with the Cities of Bay City and Saginaw and Bay County's specifications and Standard Instructions to Bidders, the undersigned hereby proposes to supply during the 7/1/22 – 6/30/23 period for the price of:

ITEM	EST.QTY	DESCRIPTION	UNIT PRICE	TOTAL PRICE
A.	36,000 Lbs./yr	<b>Aluminum Chlorohydrate</b> of 23.5% +/- 0.5 of AL2O3 and 12.5%+/-0.5 of AL NSF 60 certified, delivered to Bay Area Water Treatment Plant per attached specifications.	\$ /lb	\$
B.	1850 tons	<b>Calcium Oxide</b> ¾" x ¼" pebble, min 94% available CaO, AWWA Standard B202-19 delivered to Saginaw Water and Waste Water Plants in 35-40 ton shipments per attached specification. *(1)	\$ /ton	\$
C.	200 dry tons	<b>Ferric Chloride liquid</b> , AWWA Standard B407-18 delivered to the Saginaw Water Plant in 4,000 gallon shipments per attached specification. *	\$ /ton	\$
D.	58 dry tons	<b>Ferric Chloride liquid</b> , AWWA Standard B407-18 delivered to the Saginaw Wastewater Plant in 4,000 gallon shipments per attached specification. *	\$ /ton	\$
E.	150 tons	<b>Ferric Chloride, liquid</b> , AWWA Standard B407-18 in 8,000-gallon shipments to Bay City Wastewater. *(2)	\$ /ton	\$
F.	150 tons	<b>Hydrofluorosilicic Acid liquid</b> , AWWA Standard B703-19 delivered to the Saginaw Water Plant in 1,500 gallon max shipments per attached specification. *(3)	\$ /ton	\$
G.	50 Tons	<b>Hydrofluorosilicic Acid liquid</b> , NSF 60 AWWA Standard B703-19 Delivered to Bay Area Water Treatment Plant in 2,000 gallon max bulk loads. Per Attached Specifications	\$ /ton	\$
H.	24,000 lbs.	<b>Liquid PolyDADMAC</b> , AWWA Standard B451-16 per the attached specs delivered to the Saginaw Water Plant in 450lb drums per attached specification. *	\$ /lb	\$
I.	5,280 gal	<b>Liquid Polymer (Emulsion)</b> Clarifloc CE-1716 or owner approved equal in 250-275 gallon totes per specifications delivered to Bay City Wastewater Plant	\$ /gal	\$
J.	120,000 gals.	<b>Liquid Sodium Hypochlorite</b> , AWWA Standard B300-18 delivered to the Saginaw Water Plant in 4,800 gallon shipments per attached specification. *	\$ /gal	\$
K.	175,000 gal	<b>Liquid Sodium Hypochlorite</b> , per the attached specifications delivered for Saginaw Wastewater Treatment Plant (various locations).	\$ /gal	\$
L.	50,000 gal	<b>Liquid Sodium Hypochlorite</b> , per the attached specifications delivered to Bay City Wastewater Treatment Plant.	\$ /gal	\$
M.	31,000 gal/yr	<b>Liquid Sodium Hypochlorite</b> , per the attached specifications delivered to the Bay Area Water Treatment Plant, N. Euclid Ave. Bay City (Bulk Tanker Loads)	\$ /gal	\$

O.	70,000 lbs.	<b>Powdered Activated Carbon</b> , AWWA Standard B600-16 delivered to the Saginaw Water Plant in 50 pound bags per attached specification. *(4)	\$	/lb	\$
P.	12,000 lbs.	<b>Copper Sulfate</b> , AWWA Standard B602-17 delivered to the Saginaw Water Plant in 50 pound bags per attached specification. *(4) (equivalent bags may be approved at the cities discretion)	\$	/lb	\$
Q.	7,000 gal/yr	<b>Sodium Hydroxide 25%</b> , must be manufactured in accordance with AWWA Standard B501-19, Delivered to Bay Area Water Treatment Plant in bulk tanker per attached specification sheet	\$	/gal	\$
R.	100,000 lb/yr	<b>Phosphoric Acid 75%</b> Manufactured in accordance with AWWA standard B507-16 delivered to Bay Area Water Treatment Plant by Tanker or in IBC totes.	\$	/lb	\$
S.	3,500 gal/yr	<b>Citric Acid 50% NSF 60</b> , Delivered to Bay Area Water Treatment Plant per the attached specifications in IBC totes or bulk tanker.	\$	/lb	\$
T.	10,000 lbs./yr	<b>Sulfuric Acid 40% NSF 60</b> Delivered to the Bay Area Water Treatment Plant in bulk tanker or in IBC totes	\$	/lb	\$
U.	17,000 lbs./yr	<b>Sodium Bisulfite 40%</b> Delivered to Bay Area Water Treatment Plant per the attached specifications in IBC totes or bulk tanker.	\$	/lb	\$

\* Drivers are responsible for cleanup of all spilled material during delivery

- (1) Delivery driver must possess a minimum of 40' of hose.
- (2) Delivery amounts from 4,000 to 8,000 gallons may be requested by the vendors.
- (3) Delivered price shall be based on 23% concentration.
- (4) Shipments shall be in 50 pound, moisture-proof, multi-wall paper bags on wooden pallets.

The Sodium Hypochlorite bid shall be for a 6 month period, from 07/01/2022 thru 12/31/2022, with the Cities of Bay City and Saginaw and Bay County having the option to extend at the same bid price for the second 6 months, from 01/01/2023 to 06/30/2023. Due to the volatility of the market, the Cities of Bay City and Saginaw and Bay County reserve the right to rebid in lieu of extending the accepted bid above.

**All bidders must enclose a Certificate of Compliance to ANSI/NFS Standard 60 with their bid responses. All bidders must enclose a current SDS for the respective chemical.**

**IF VARIATIONS ARE PROPOSED, LIST VARIATIONS ON SEPARATE SHEET OF PAPER AND RETURN WITH THE BID RESPONSE FORM. ENCLOSE MANUFACTURER'S DESCRIPTIVE LITERATURE OR BROCHURE.**

I hereby state that all of the information I have provided is true, accurate, and complete. I hereby state that I have the authority to submit this bid, which will become a binding contract, if accepted by the City of Bay City, City of Saginaw and/or Bay County. I hereby agree to abide by all City ordinances, rules and regulations including the suspension process for poor performance arising out of this contract, if awarded.

COMPANY NAME

BY (Signature)

STREET ADDRESS OR PO BOX

(Print Name of Above)

CITY STATE ZIP CODE

TITLE OF SIGNATORY

TELEPHONE NUMBER

DATE OF OFFER

TERMS OF PAYMENT

ESTIMATED DELIVERY AFTER RECEIPT OF ORDER

Bids shall be returned to the City of Saginaw-Purchasing Office, RM #105, City Hall , 1315 S. Washington Ave, Saginaw, MI 48601 no later than the time and date listed above. Sealed envelopes shall be marked with the bid number, title, and opening date.

Tabulations will be available at our website, under the Purchasing Department.

LATE BIDS WILL BE REJECTED.

**CITY OF BAY CITY  
ANNUAL WASTEWATER PLANT  
CHEMICALS**

***Wastewater Treatment Plant***

· **FERRIC CHLORIDE, LIQUID AWWA Standard B407-12**

Quantity - 150 tons (in - 8,000 gallon shipments as-needed)

A certified analysis as to the percent of ferric chloride, exact weight and number of tons must be furnished for each shipment.

Submit current Material Safety Data Sheet with bid package.

Driver's responsible for clean-up of all spilled material during delivery.

All bidders must enclose a Certificate of Compliance to ANSI/NFS Standard 60 with their bid responses.

Shipped to: City of Bay City's Wastewater Treatment Plant  
2905 N. Water Street, Bay City, MI 48708

· **LIQUID SODIUM HYPOCHLORITE**

Quantity - 50,000 gallons (as-needed)

Liquid Sodium Hypochlorite (NAOCl) in 15 to 16% concentration

Shipped to: City of Bay City's Wastewater Treatment Plant  
2905 N. Water Street, Bay City, MI 48708

· **LIQUID POLYMER (EMULSION) CLARIFLOC CE- 1716 OR OWNER APPROVED EQUAL**

Quantity – 5280 gallons (in 250 to 275 gallon totes as-needed) liquid polymer.

Delivery to the Wastewater Treatment Plant shall be made within 72 hours after telephonic placement of the order. Deliveries will be accepted between the hours of 7:00 AM and 3: 00 PM, Monday through Friday.

Driver's responsible for clean-up of all spilled material during delivery.

All bidders must enclose a certificate of compliance to ANSI/NFS Standard 60 with their bid.

A product material Safety Data Sheet [MSDS] and/or detailed safe handling instruction; including information pertaining to spill clean-up shall accompany EVERY delivery.

Shipped to: City of Bay City's Wastewater Treatment Plant  
2905 N. Water Street, Bay City, MI 48708

**2022 SAGINAW WATER AND WASTEWATER TREATMENT PLANTS  
SPECIFICATIONS FOR SODIUM HYPOCHLORITE, (NaOCL)**

**BID DURATION**

The Sodium Hypochlorite bid shall be for a 6 month period, from 07/01/2022 thru 12/31/2022, with the City having the option to extend at the same bid price for the second 6 months, from 01/01/2023 to 06/30/2023. Due to the volatility of the market, the City reserves the right to rebid in lieu of extending the accepted bid above.

**PROPERTIES**

1. The Sodium Hypochlorite Solution must meet State of Michigan, Department of Environment, Great Lakes and Energy, Drinking Water and Environmental Health Division requirements for water treatment chemicals and NSF/ANSI Standard 60-2020 Drinking Water Treatment Chemicals – Health Effects.
2. Material must be manufactured in accordance with AWWA Standard B300-18 for Sodium Hypochlorite in all areas not in conflict with ANSI 60.
3. An affidavit of compliance shall be provided, which states that the Sodium Hypochlorite Solution furnished complies with all applicable requirements of NSF/ANSI 60 and AWWA B300-18. A Safety Data Sheet must be provided.
4. This material shall be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with NSF/ANSI Standard 60-2020 Drinking Water Treatment Chemicals – Health Effects. A copy of product certification under ANSI 60 must be submitted with the bid.
5. All material furnished under these specifications shall contain no soluble mineral or organic substances in quantities capable of producing deleterious or injurious effects on the health of those consuming water which has been treated properly with Sodium Hypochlorite Solution.
6. The Sodium Hypochlorite Solution shall meet minimum solution strength of 15-16% available chlorine by volume.

**DELIVERY REQUIREMENTS: WATER TREATMENT PLANT**

1. Orders shall be made as required and requested by telephone. Delivery is normally within 5 days of the request. Deliveries will be accepted from 8:00 a.m. to 3:00 p.m. Monday through Friday except on City Holidays.
2. The Sodium Hypochlorite shall be delivered to the Saginaw Water Treatment Plant at the following address:  
522 Ezra Rust Drive  
Saginaw, MI 48601  
(989) 759-1640
3. The Sodium Hypochlorite shall be delivered as required by the City of Saginaw in truckload shipments of approximately 4,800 gallons per load, bulk delivery. The supplier must also provide an analytical statement with each delivery. The bidder shall indicate the minimum strength, 15-16% available chlorine by volume, on the delivery sheet for evaluation.

4. The Sodium Hypochlorite is to be unloaded through a 2" quick-coupled connection. Weight tickets from approved scales are required for each shipment. Each weight shall show the Gross Wt., Tare Wt. and Net Wt.
5. The cost of delivery must be included in the bid price.
6. There shall be provisions made for security of the Water Treatment Plant.
  - A) A fax or email will be sent to the plant prior to receipt of shipment. It shall include the driver's picture, his identity, shipping company name and truck number.
  - B) Proof of driver identity and receipt of the fax will be required before any shipment will be received.
7. Cost for security provisions must be included in the bid price.
8. The Water Plant assumes no liability for additional costs in the event the above provisions are not met causing delay or return of shipment.

**DELIVERY REQUIREMENTS: WASTEWATER TREATMENT PLANT**

1. The supplier shall provide Sodium Hypochlorite Solution (15-16% strength) for the City of Saginaw Wastewater Treatment Division to be delivered to the following addresses in Saginaw:

14 <sup>th</sup> Street Pump Station	2050 Motor Place	2" discharge fittings
Hancock St. Pump Station	120 N. Niagara	2" discharge fittings
Weiss St. Pump Station	3732 Carrollton Rd	2" discharge fittings
Webber St. Pump Station	45 Webber St	2" discharge fittings
Emerson St. Pump Station	725 S. Water St	2" discharge fittings
Salt/Fraser St Pump Station	904 S. Niagara St	2" discharge fittings
Fitzhugh St. Pump Station	121 Symphony Lane	2" discharge fittings

2. Deliveries will be accepted from 7:30 a.m. to 1:30 p.m. except on weekends and City Holidays. The supplier shall give a thirty minute minimum notice before delivery is made by calling (989) 759-1630 or (989) 737-5598. The bidder shall indicate the minimum strength of Sodium Hypochlorite Solution on the bid sheet for evaluation.
3. Deliveries may be split between facilities listed above. Any additional cost for split shipments must be added to the bid.
4. Average shipping load = 4,800 gallons per load.
5. Other than mentioned above, deliveries may be requested on short notice due to storm conditions.
6. The bid quantity of the solution is estimated and will vary with the amount of rainfall and the pumpage into the Retention Basins.
7. All deliveries shall meet the minimum solution strength of 15 to 16%. Payments will be made on unit price per gallon delivered.

**2022 SAGINAW WATER AND WASTEWATER TREATMENT PLANTS  
SPECIFICATIONS FOR LIQUID FERRIC CHLORIDE, (FeCl<sub>3</sub>)**

**PROPERTIES**

1. The Liquid Ferric Chloride must meet State of Michigan, Department of Environment, Great Lakes and Energy, Drinking Water and Environmental Health Division requirements for water treatment chemicals and NSF/ANSI Standard 60-2021 Drinking Water Treatment Chemicals - Health Effects.
2. Material must be manufactured in accordance with AWWA Standard B407-18 for Liquid Ferric Chloride in all areas not in conflict with ANSI 60.
3. An affidavit of compliance shall be provided, which states that the Liquid Ferric Chloride furnished complies with all applicable requirements of NSF/ANSI 60 and AWWA B407. A Safety Data Sheet must be provided.
4. This material shall be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with NSF/ANSI Standard 60-2021 Drinking Water Treatment Chemicals - Health Effects. A copy of product certification under ANSI 60 must be submitted with the bid.
5. All material furnished under these specifications shall contain no soluble mineral or organic substances in quantities capable of producing deleterious or injurious effects on the health of those consuming water which has been treated properly with Liquid Ferric Chloride.
6. The supplier shall bid on the unit price per ton as Ferric Chloride on a dry basis.

**DELIVERY REQUIREMENTS: WATER TREATMENT PLANT**

1. Orders shall be made as required and requested by telephone. Delivery is to proceed to the plant within 5 days of the request. Deliveries will be accepted from 8:00 a.m. to 2:30 p.m. Monday through Friday, except on City Holidays.
2. The Liquid Ferric Chloride shall be delivered to the Saginaw Water Treatment Plant at the following address:  
522 Ezra Rust Drive  
Saginaw, MI 48601  
(989) 759-1640
3. The Liquid Ferric Chloride shall be delivered as required by the City of Saginaw in truckload shipments of approximately 4,000 gallons per load, bulk delivery. The supplier will also provide an analytical statement with each delivery.
4. Saginaw Water Treatment Plant personnel will collect a sample at the time of delivery. Acceptance of the load will be made only if immediately specific gravity and relative clarity test results are acceptable.
5. The Liquid Ferric Chloride is to be unloaded through a 3" quick-coupled connection. Weight tickets from approved scales are required for each shipment. Each weight shall show the Gross Wt., Tare Wt. and Net Wt.
6. The cost of delivery must be included in the bid price.

7. There shall be provisions made for security of the Water Treatment Plant.
  - A) A fax or email will be sent to the plant prior to receipt of shipment. It shall include the driver's picture, his identity, shipping company name and truck number.
  - B) Proof of driver identity and receipt of the fax will be required before any shipment will be received.
8. Cost for security provisions must be included in the bid price.
9. The Water Plant assumes no liability for additional costs in the event the above provisions are not met causing delay or return of shipment.

#### **DELIVERY REQUIREMENTS: WASTEWATER TREATMENT PLANT**

1. Deliveries to the Wastewater Treatment Plant facilities shall be to the following address:  
2406 Veterans Memorial Parkway  
Saginaw, MI 48601  
(989) 759-1632
2. The Liquid Ferric Chloride shall be delivered as required by the City of Saginaw in truckload shipments of approximately 4,000 gallons per load, bulk delivery unloaded through a 3" quick-coupled connection. The supplier will also provide an analytical statement with each delivery.
3. The delivery time is 8:00 a.m. to 4:30 p.m. EST Monday through Friday except on City holidays. There can be variations in delivery time with close coordination and approval by Wastewater Treatment Division personnel.
4. Weigh tickets from approved scales are required for each shipment.
5. The cost of delivery must be included in the bid price.

#### **TESTING OF LIQUID FERRIC CHLORIDE**

1. Samples for testing shall be taken from the delivered load at the plant by City personnel to assure a representative sample.
2. Samples will be tested in accordance with current standards to verify percent Ferric Chloride.

**2022 SAGINAW WATER TREATMENT PLANT  
SPECIFICATIONS FOR LIQUID POLY(DIALLYDIMETHYLAMMONIUM CHLORIDE)**

**PROPERTIES**

1. The Liquid Poly(Diallyldimethylammonium Chloride) or PolyDADMAC must meet State of Michigan, Department of Environment, Great Lakes and Energy, Drinking Water and Environmental Health Division requirements for water treatment chemicals and NSF/ANSI Standard 60-2021 Drinking Water Treatment Chemicals – Health Effects.
2. Material must be manufactured in accordance with AWWA Standard B451-16 for Liquid Poly(Diallyldimethylammonium Chloride) in all areas not in conflict with ANSI 60.
3. An affidavit of compliance must be provided, which states that the Liquid PolyDADMAC furnished complies with all applicable requirements of NSF/ANSI 60 and AWWA B451-16. A Safety Data Sheet must be provided.
4. This material shall be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with NSF/ANSI Standard 60-2021 Drinking Water Treatment Chemicals – Health Effects. A copy of product certification under ANSI 60 must be submitted with the bid.
5. All material furnished under these specifications shall contain no soluble mineral or organic substances in quantities capable of producing deleterious or injurious effects on the health of those consuming water which has been treated properly with Liquid PolyDADMAC.

**LIQUID PolyDADMAC PHYSICAL SPECIFICATIONS**

1. Liquid PolyDADMAC must be Polydyne Clarifloc<sup>®</sup> C-308P, or approved equal. Equality will be based upon total active PolyDADMAC content, molecular weight, jar-testing results and full-scale results. Equality is subject to evaluation and determination by the City of Saginaw.
2. Liquid PolyDADMAC must be non-reactive to chlorine. It must also be effective over a wide temperature range and moderate pH range. It must be easily applied via chemical metering pumps.
3. It is the scope of this bid to accept only very high molecular weight Liquid PolyDADMAC coagulants as listed below. Any product bid that has a molecular weight outside the range of 750,000 – 1,000,000, is not of this chemistry, is a blend of more than one polymer chemistry or a blend of a metal salt coagulant and PolyDADMAC will therefore not be considered, and the bid will be rejected.

**Liquid PolyDADMAC**

Maximum Dosage: 50 mg/L  
Specific Gravity: 1.02 – 1.04  
Weight: 8.5 – 8.7 lbs/gal  
Odor: Slight  
Appearance: clear – straw colored  
pH (neat) @ 25°C: 6.0 su – 8.0 su  
Solubility: 100%  
Boiling Point:  $\geq 100^{\circ}\text{C}$  or  $\geq 212^{\circ}\text{F}$   
Freezing Point:  $-2.78^{\circ}\text{C}$  or  $27^{\circ}\text{F}$   
Volatile:  $\approx 80\%$  by volume  
Active Solids: 20%  
Molecular Weight: 750,000 – 1,000,000

## DELIVERY REQUIREMENTS

1. Orders shall be made as required and requested by telephone. Delivery is normally within 12 days of the request. Deliveries will be accepted from 8:00 a.m. to 1:30 p.m. Monday through Friday except on City Holidays.
2. The Liquid PolyDADMAC shall be delivered to the Saginaw Water Treatment Plant at the following address:  
522 Ezra Rust Drive  
Saginaw, MI 48601  
(989) 759-1640
3. The Liquid PolyDADMAC shall be delivered as required by the City of Saginaw in truckload shipments packaged in accordance with AWWA B451-16, Section 6.2. Packaged in new, sealed 55 gallon drums not to exceed 450 pounds. The freight shall be delivered on pallets constructed to allow the use of hand operated pallet trucks to unload. Driver to provide hand operated pallet truck to move pallets to the end of the trailer. Saginaw does not have a loading dock. Product must be prevented from freezing during shipment.
4. The cost of delivery must be included in the bid price.
5. There shall be provisions made for security of the Water Treatment Plant.
  - A) A fax or email will be sent to the plant prior to receipt of shipment. It shall include the driver's picture, his identity, shipping company name and truck number.
  - B) Proof of driver identity and receipt of the fax will be required before any shipment will be received.
6. Cost for security provisions must be included in the bid price.
7. The Water Plant assumes no liability for additional costs in the event the above provisions are not met causing delay or return of shipment.

**2022 SAGINAW WATER AND WASTEWATER TREATMENT PLANTS  
SPECIFICATIONS FOR CALCIUM OXIDE (QUICKLIME, CaO)**

**PROPERTIES**

1. The Calcium Oxide must meet State of Michigan, Department of Environment, Great Lakes and Energy, Drinking Water and Environmental Health Division requirements for water treatment chemicals and NSF/ANSI Standard 60-2021 Drinking Water Treatment Chemicals – Health Effects.
2. Material must be manufactured in accordance with AWWA Standard B202-19 for Quicklime and Hydrated Lime in all areas not in conflict with ANSI 60.
3. An affidavit of compliance shall be provided, which states that the Quicklime furnished complies with all applicable requirements of NSF/ANSI 60 and AWWA B202. A Safety Data Sheet must be provided.
4. This material shall be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with NSF/ANSI Standard 60-2021 Drinking Water Treatment Chemicals – Health Effects. A copy of product certification under ANSI 60 must be submitted with the bid.
5. A certificate of analysis is required with each delivery. The Calcium Oxide supplied to the Water and Wastewater Treatment Plant must be a ¾ " by ¼" hard burned material with a minimum of 94% available Calcium Oxide.

**DELIVERY REQUIREMENTS: WATER TREATMENT PLANT**

1. Orders shall be made as required and requested by telephone. Delivery is to proceed to the plant within 24 hours of an emergency call and within 5 days for normal deliveries. Deliveries will be accepted from 8:00 a.m. to 1:30 p.m. EST Monday through Friday except on City Holidays.
2. The desired delivery date will be stated when the telephone order is placed. Should the contractor fail to make delivery of Calcium Oxide as specified the City shall have the right to procure Calcium Oxide from any other source. If the cost of the Calcium Oxide so purchased is greater than the amount specified in the Calcium Oxide contractor's bid, the contractor will be required to reimburse the City for the difference in cost.
3. Overtime costs between 4:00 p.m. and 8:00 a.m. caused by trucking contractor's failure to deliver and start unloading between 8:00 a.m. and 1:30 p.m. shall be charged to the shipper's account. Unloading time should not exceed two and one half hours under normal conditions. The City of Saginaw will not pay demurrage unless unloading time exceeds four hours, and only when such excess time is due to the City's failure to unload.
4. The Calcium Oxide shall be delivered to the Saginaw Water Treatment Plant at the following address:  
522 Ezra Rust Drive  
Saginaw, MI 48601  
(989) 759-1640
5. The Calcium Oxide shall be delivered as required by the City of Saginaw in truckload shipments of approximately 40 tons per load, bulk delivery. Weight tickets from approved scales are required for each shipment. Each weight shall show the Gross Wt., Tare Wt. and Net Wt.

6. All deliveries shall be protected in transit to insure against leakage and moisture. Delivered material must be in dry and clean condition. The lime shall be delivered in trucks used exclusively for transporting Calcium Oxide.
7. Delivery trucks must be equipped with a suitable system for pneumatic delivery with a 50 foot by 4 inch diameter hose. Maximum pneumatic delivery system offloading pressure shall be no greater than 10 psi to minimize dusting and product degradation.
8. The cost of delivery must be included in the bid price.
9. There shall be provisions made for security of the Water Treatment Plant.
  - A) A fax or email will be sent to the plant prior to receipt of shipment. It shall include the driver's picture, his identity, shipping company name and truck number.
  - B) Proof of driver identity and receipt of the fax will be required before any shipment will be received.
10. Cost for security provisions must be included in the bid price.
11. The Water Plant assumes no liability for additional costs in the event the above provisions are not met causing delay or return of shipment.

#### **DELIVERY REQUIREMENTS: WASTEWATER TREATMENT PLANT**

1. Deliveries to the Wastewater Treatment Plant shall be in trucks with pneumatic unloading facilities to the following address:

2406 Veterans Memorial Parkway  
Saginaw, MI 48601  
(989) 759-1632
2. The normal load ordered will be 35 tons. If the supplier desires to bring a larger load, they must closely coordinate the delivery with, and get approval from the Wastewater Treatment Plant personnel to assure adequate storage space.
3. The delivery time is 8:00 a.m. to 4:30 p.m. EST Monday through Friday except on City Holidays. There can be variations in delivery time with close coordination and approval by Wastewater Treatment Division personnel.
4. Weigh tickets from approved scales are required for each shipment.
5. The cost of delivery must be included in the bid price.

#### **TESTING FOR AVAILABLE CALCIUM OXIDE**

1. Samples for testing shall be taken from the delivered load at the plant by City personnel to assure a representative sample. Samples will be taken in accordance with accepted methods for limestone, quicklime and hydrated lime sampling.
2. Samples will be tested in accordance with current standards to verify percent available Calcium Oxide.

**2022 SAGINAW WATER TREATMENT PLANT  
SPECIFICATIONS FOR COPPER SULFATE, (CuSO<sub>4</sub>·5H<sub>2</sub>O),**

**PROPERTIES**

1. The Copper Sulfate must meet State of Michigan, Department of Environment, Great Lakes and Energy, Drinking Water and Environmental Health Division requirements for water treatment components and NSF/ANSI Standard 60-2021 Drinking Water Treatment Chemicals – Health Effects.
2. Material must be manufactured in accordance with AWWA Standard B602-17 for Copper Sulfate in all areas not in conflict with ANSI 60.
3. An affidavit of compliance must be provided, which states that the Copper Sulfate furnished complies with all applicable requirements of NSF/ANSI 60 and AWWA Standard B602. A Safety Data Sheet must be provided.
4. This material shall be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with NSF/ANSI Standard 60-2021 Drinking Water Treatment Chemicals – Health Effects. A copy of product certification under ANSI 60 must be submitted with the bid.
5. The Copper Sulfate Physical Specifications.

Copper (II) Sulfate Pentahydrate: 99% minimum

Soluble Cupric Iron (Cu<sup>+2</sup>): 25% minimum

Approximate Particle Size: Size C or 4 – 8mm or ¼”

Particle Size, U.S. Mesh: On a ½” screen: 2.0% maximum

On a No. 3½ US Standard Sieve: 50% minimum

On a No. 8 US Standard Sieve: 90% minimum

Passing No. 100 US Standard Sieve: 2% maximum

**DELIVERY REQUIREMENTS**

1. Orders shall be made as required and requested by telephone. Delivery is normally within 10 days of the request. Deliveries will be accepted from 8:00 a.m. to 2:30 p.m. Monday through Friday except on City Holidays.
2. The Copper Sulfate shall be delivered to the Saginaw Water Treatment Plant at the following address:  
522 Ezra Rust Drive  
Saginaw, MI 48601  
(989) 759-1640
3. The Copper Sulfate shall be delivered as required by the City of Saginaw in truckload shipments packaged in accordance with AWWA B602-17, Section 6.2.1. The copper sulfate shall be in packed in multiwall paper moisture-proof bags (equivalent bags may be approved at the cities discretion) not to exceed 50 pounds. The freight shall be delivered on pallets constructed to allow the use of hand operated pallet trucks to unload. Maximum weight is 2,000 lbs. per pallet.
4. The copper sulfate shall be shipped as a single 12,000 pound order and the cost of delivery must be included in the quote price.

5. There shall be provisions made for security of the Water Treatment Plant.
  - A) A fax or email will be sent to the plant prior to receipt of shipment. It shall include the driver's picture, his identity, shipping company name and truck number.
  - B) Proof of driver identity and receipt of the fax will be required before any shipment will be received.
6. Cost for security provisions must be included in the bid price.
7. The Water Plant assumes no liability for additional costs in the event the above provisions are not met causing delay or return of shipment



3. The Powdered Activated Carbon shall be delivered as required by the City of Saginaw in truckload shipments packaged in accordance with AWWA B600-16, Section 6.2. The carbon shall be in moisture-proof, multi-wall paper bags not to exceed 50 pounds. The freight shall be delivered on pallets constructed to allow the use of hand operated pallet trucks to unload.
4. The carbon shall be shipped as two separate orders and the cost of delivery must be included in the quote price.
5. There shall be provisions made for security of the Water Treatment Plant.
  - A) A fax or email will be sent to the plant prior to receipt of shipment. It shall include the driver's picture, his identity, shipping company name and truck number.
  - B) Proof of driver identity and receipt of the fax will be required before any shipment will be received.
6. Cost for security provisions must be included in the bid price.
7. The Water Plant assumes no liability for additional costs in the event the above provisions are not met causing delay or return of shipment.

**2022 SAGINAW WATER TREATMENT PLANT  
SPECIFICATIONS FOR HYDROFLUOROSILICIC ACID, (H<sub>2</sub>SiF<sub>6</sub>)**

**PROPERTIES**

1. The Hydrofluorosilicic Acid must meet State of Michigan, Department of Environment, Great Lakes and Energy, Drinking Water and Environmental Health Division requirements for water treatment chemicals and NSF/ANSI Standard 60-2021 Drinking Water Treatment Chemicals – Health Effects.
2. Material must be manufactured in accordance with AWWA Standard B703-19 for Fluorosilicic Acid in all areas not in conflict with ANSI 60.
3. An affidavit of compliance must be provided, which states that the Hydrofluorosilicic Acid furnished complies with all applicable requirements of NSF/ANSI 60 and AWWA B703-19. A Safety Data Sheet must be provided.
4. This material shall be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with NSF/ANSI Standard 60-2021 Drinking Water Treatment Chemicals - Health Effects. A copy of product certification under ANSI 60 must be submitted with the bid.
5. The Hydrofluorosilicic Acid shall meet a minimum concentration of 23% Fluorosilicic Acid by weight.

**DELIVERY REQUIREMENTS**

1. Orders shall be made as required and requested by telephone. Delivery is normally within 5 days of the request. Deliveries will be accepted from 8:00 a.m. to 2:00 p.m. Monday through Friday except on City Holidays.
2. The Hydrofluosilicic Acid shall be delivered to the Saginaw Water Treatment Plant at the following address:  
522 Ezra Rust Drive  
Saginaw, MI 48601  
(989) 759-1640
3. The Hydrofluorosilicic Acid shall be delivered as required by the City of Saginaw in truckload shipments of approximately 1,500 gallons per load, direct shipped bulk delivery. The supplier must also provide an analytical statement with each delivery. The bidder shall indicate the minimum concentration of Hydrofluorosilicic Acid of 23% on the delivery sheet for evaluation.
4. The Hydrofluorosilicic Acid is to be unloaded through a 2" quick-coupled connection. Weight tickets from approved scales are required for each shipment. Each weight shall show the Gross Wt., Tare Wt., and Net Wt.
5. The cost of delivery must be included in the bid price.
6. There shall be provisions made for security of the Water Treatment Plant.
  - A) A fax or email will be sent to the plant prior to receipt of shipment. It shall include the driver's picture, his identity, shipping company name and truck number.
  - B) Proof of driver identity and receipt of the fax will be required before any shipment will be received.
7. Cost for security provisions must be included in the bid price.
8. The Water Plant assumes no liability for additional costs in the event the above provisions are not met causing delay or return of shipment.

9/24/2021 BAY AREA WATER TREATMENT PLANT  
SPECIFICATIONS FOR PHOSPHORIC ACID

PROPERTIES

1. Phosphoric Acid must meet Michigan Department of Environment, Great Lakes, and Energy Water Division requirements for water treatment chemicals certified to NSF/ANSI Standard 60. NSF 60 standard must be on certificate of analysis, SDS, and must be proven by chemical supplier with link to NSF.org.
2. Material must be manufactured in accordance with AWWA Standard B507-16
3. Phosphoric Acid shall meet solution strength of 75%.

DELIVERY REQUIREMENTS

- 1) Orders shall be made as required and requested by telephone or email. Delivery is normally within 10 days of the request. Deliveries will be accepted from 8:00 a.m. to 2:00 p.m. Monday through Friday except on holidays. The Phosphoric Acid shall be delivered to the Bay Area Water Treatment Plant at the following address:

2701 N Euclid Ave  
Bay City, MI 48706

(989) 439-7245
- 2) Delivery will be in bulk truck loads or in approved totes. All required paperwork, including Certificate of Analysis, SDS, and proof of NSF 60 must be available before product is offloaded. A sample must be taken by the driver from bulk load, or plant staff will take one from a tote to be analyzed and verified prior to offloading.
  - a) Bulk Loads
    - i) The Phosphoric Acid shall be delivered as required by the Bay Area Water Treatment Plant in truckload shipments of approximately 1,700 gallons per load, bulk deliver totaling approximately 100,000 lbs./yr. The supplier shall include a certificate of analysis with each load that includes the strength of the Phosphoric, at 75% per load.
    - ii) The Phosphoric Acid is to be unloaded through a 2" quick-coupled connection. Weight tickets from approved scales are required for each shipment. Each weight shall show the Gross Wt., Tare Wt. and NetWt.
  - b) Totes
    - i) Totes shall be IBC totes that are rigid, caged and polypropylene. Tote volumes can be 275 gallons or 330 gallons.
    - ii) Totes must be identified as NSF 60 on the label.
    - iii) Totes shall have a 2" lower drain valve that will accept a quick-coupled connection or NPT.
    - iv) Totes will be removed from delivery truck by Bay Area Water Plant staff with a fork truck from ground level. The delivery truck will need to bring a pallet jack to assist in removal of totes from truck.
    - v) Tote deposit shall be clearly marked in billing as a separate line item.
    - vi) Unless otherwise noted, empty totes will be returned upon subsequent deliveries.
- 3) The cost of delivery must be included in the bid price.
- 4) There shall be provisions made for security of the Water Treatment Plant. An email will be sent to the plant prior to receipt of shipment. The email shall include the driver's picture, their identity, and shipping company name and truck number.
- 5) Proof of identity upon delivery and receipt of the email will be required before any shipment will be received.
- 6) Cost for these provisions must be included in the bid.
- 7) The Water Plant assumes no liability for additional costs in the event the above provisions are not met, causing delay or return of shipment.

BAY AREA WATER TREATMENT PLANT  
SPECIFICATIONS FOR HYDROFLUOROSILICIC ACID

PROPERTIES

1. Hydrofluorosilicic Acid must meet Michigan Department of Environment, Great Lakes, and Energy Water Division requirements for water treatment chemicals certified to NSF/ANSI Standard 60. NSF 60 standard must be on certificate of analysis, SDS, and must be proven by chemical supplier with link to NSF.org.
2. Material must be manufactured in accordance with AWWA Standard B703-19.
3. Hydrofluorosilicic Acid shall meet minimum solution strength of 23-25% available HFS.

DELIVERY REQUIREMENTS

- 1) Orders shall be made as required and requested by telephone or email. Delivery is normally within 10 days of the request. Deliveries will be accepted from 8:00 a.m. to 2:00 p.m. Monday through Friday except on holidays. The Hydrofluorosilicic Acid shall be delivered to the Bay Area Water Treatment Plant at the following address:

2701 N Euclid Ave  
Bay City, MI 48706

(989) 439-7245

- 2) Delivery will be in bulk truck loads or in approved totes. All required paperwork, including Certificate of Analysis, SDS, and proof of NSF 60 must be available before product is offloaded. A sample must be taken by the driver from bulk load, or plant staff will take one from a tote to be analyzed and verified prior to offloading.

a) Bulk Loads

- i) The Hydrofluorosilicic Acid shall be delivered as required by the Bay Area Water Treatment Plant in truckload shipments of approximately 2,500-2,600 gallons per load. Anywhere from 3-6 loads are expected for the year. The supplier shall include a certificate of analysis with each load that includes the strength of the acid, between 23-25%
- ii) The Hydrofluorosilicic Acid is to be unloaded through a 2" quick-coupled connection. Weight tickets from approved scales are required for each shipment. Each weight shall show the Gross Wt., Tare Wt. and Net Wt.

b) Totes

- i) Totes shall be IBC totes that are rigid, caged and polypropylene. Tote volumes can be 275 gal or 330 gal.
- ii) Totes must be identified as NSF 60 on the label.
- iii) Totes shall have a 2" lower drain valve that will accept a quick-coupled connection or NPT.
- iv) Totes will be removed from delivery truck by Bay Area Water Plant staff with a fork truck from ground level. The delivery truck will need to bring a pallet jack to assist in removal of totes from truck.
- v) Tote deposit shall be clearly marked in billing as a separate line item.
- vi) Unless otherwise noted, empty totes will be returned upon subsequent deliveries

- 3) The cost of delivery must be included in the bid price.
- 4) There shall be provisions made for security of the Water Treatment Plant. An email will be sent to the plant prior to receipt of shipment. The email shall include the driver's picture, their identity, shipping company name and truck number.
- 5) Proof of identity upon delivery and receipt of the email will be required before any shipment will be received.
- 6) Cost for these provisions must be included in the bid.
- 7) The Water Plant assumes no liability for additional costs in the event the above provisions are not met, causing delay or return of shipment.

BAY AREA WATER TREATMENT PLANT  
SPECIFICATIONS FOR SODIUM HYPOCHLORITE

PROPERTIES

1. Sodium Hypochlorite Solution must meet Michigan Department of Environment, Great Lakes, and Energy Water Division requirements for water treatment chemicals certified to NSF/ANSI Standard 60. NSF 60 standard must be on certificate of analysis, SDS, and must be proven by chemical supplier with link to [NSF.org](https://www.nsf.org).
2. Material must be manufactured in accordance with AWWA Standard B300-18.
3. Sodium Hypochlorite Solution shall meet minimum solution strength of 15-16% available chlorine by volume.

DELIVERY REQUIREMENTS

1. Orders shall be made as required and requested by telephone or email. Delivery is normally within 10 days of the request. Deliveries will be accepted from 8:00 a.m. to 2:00 p.m. Monday through Friday except on holidays. The Sodium Hypochlorite shall be delivered to the Bay Area Water Treatment Plant at the following address:

2701 N Euclid Ave  
Bay City, MI 48706

(989) 439-7245

2. The Sodium Hypochlorite shall be delivered as required by the Bay Area Water Treatment Plant in full truckload shipments of 4,000- 4,500 gallons. 5-7 loads are expected for the year. The supplier shall include a certificate of analysis with each load that includes the minimum strength of Sodium Hypochlorite Solution, 15-16% available chlorine by volume. Chemical will not be unloaded unless Certificate of Analysis, SDS, and proof of NSF 60 are on site at time of delivery.
3. The Sodium Hypochlorite is to be unloaded through a 2" quick-coupled connection. Weight tickets from approved scales are required for each shipment. Each weight shall show the Gross Wt., Tare Wt. and Net Wt.
4. A sample must be pulled from the truck upon arrival. Plant staff will analyze and verify the sample prior to unloading.
5. The cost of delivery must be included in the bid price.
6. There shall be provisions made for security of the Water Treatment Plant. An email will be sent to the plant prior to receipt of shipment. The email shall include the driver's picture, their identity, and shipping company name and truck number.
7. Proof of identity upon delivery and receipt of the email will be required before any shipment will be received.
8. Cost for these provisions must be included in the bid.
9. The Water Plant assumes no liability for additional costs in the event the above provisions are not met, causing delay or return of shipment.

BAY AREA WATER TREATMENT PLANT  
SPECIFICATIONS FOR SODIUM BISULFITE

PROPERTIES

Sodium Bisulfite shall meet solution strength of 38-42%.

DELIVERY REQUIREMENTS

1. Orders shall be made as required and requested by telephone or email. Delivery is normally within 10 days of the request. Deliveries will be accepted from 8:00 a.m. to 2:00 p.m. Monday through Friday except on holidays. The Sodium Bisulfite shall be delivered to the Bay Area Water Treatment Plant at the following address:

2701 N Euclid Ave  
Bay City, MI 48706

(989) 439-7245

2. Delivery will be in bulk truck loads or in approved totes. All required paperwork, including Certificate of Analysis and SDS, must be available before product is offloaded. A sample must be taken by the driver from bulk load, or plant staff will take one from a tote to be analyzed and verified prior to offloading.
  - a) Bulk Loads
    - i) The Sodium Bisulfite shall be delivered as required by the Bay Area Water Treatment Plant in truckload shipments of approximately 1,100-1,200 gallons per load, bulk delivery. 1-2 loads are expected for the year. The supplier shall include a certificate of analysis with each load that includes the strength of the bisulfite, between 38- 42%.
    - ii) The Sodium Bisulfite is to be unloaded through a 2" quick-coupled connection. Weight tickets from approved scales are required for each shipment. Each weight shall show the Gross Wt., Tare Wt. and Net Wt.
  - b) Totes
    - i) Totes shall be IBC totes that are rigid, caged and polypropylene. Tote volumes can be 275gal or 330gal.
    - ii) Totes shall have a 2" lower drain valve that will accept a quick-coupled connection or NPT.
    - iii) Totes will be removed from delivery truck by Bay Area Water Plant staff with a fork truck from ground level. The delivery truck will need to bring a pallet jack to assist in removal of totes from truck.
    - iv) Tote deposit shall be clearly marked in billing as a separate line item.
    - v) Unless otherwise noted, empty totes will be returned upon subsequent deliveries.
3. The cost of delivery must be included in the bid price.
4. There shall be provisions made for security of the Water Treatment Plant. An email will be sent to the plant prior to receipt of shipment. The email shall include the driver's picture, their identity, shipping company name and truck number.
5. Proof of identity upon delivery and receipt of the email will be required before any shipment will be received.
6. Cost for these provisions must be included in the bid.
7. The Water Plant assumes no liability for additional costs in the event the above provisions are not met, causing delay or return of shipment.

BAY AREA WATER TREATMENT PLANT  
SPECIFICATIONS FOR ALUMINUM CHLOROHYDRATE

PROPERTIES

1. Aluminum Chlorohydrate must meet Michigan Department of Environment, Great Lakes, and Energy Water Division requirements for water treatment chemicals certified to NSF/ANSI Standard 60. NSF 60 standard must be on certificate of analysis, SDS, and must be proven by chemical supplier with link to NSF.org.
2. Aluminum Chloralhydrate shall meet minimum solution strength of 23.5% +/- 0.5 of AL2O3 and 12.5% +/- 0.5 of AL

DELIVERY REQUIREMENTS

- 1) Orders shall be made as required and requested by telephone or email. Delivery is normally within 10 days of the request. Deliveries will be accepted from 8:00 a.m. to 2:00 p.m. Monday through Friday except on holidays. The Aluminum Chloralhydrate shall be delivered to the Bay Area Water Treatment Plant at the following address:

2701 N Euclid Ave  
Bay City, MI 48706

(989) 439-7245

- 2) Delivery will be in bulk truck loads or in approved totes. All required paperwork, including Certificate of Analysis, SDS, and proof of NSF must be available before product is offloaded. A sample must be taken by the driver from bulk load or plant staff will take one from a tote to be analyzed and verified prior to offloading.
  - a) Bulk Loads
    - i) The Aluminum Chloralhydrate shall be delivered as required by the Bay Area Water Treatment Plant in full truckload shipments of 1,000 gallons. 3-5 loads are expected for the year. The supplier shall include a certificate of analysis with each load that includes the minimum required parameters.
    - ii) The Aluminum Chloralhydrate is to be unloaded through a 2" quick-coupled connection. Weight tickets from approved scales are required for each shipment. Each weight shall show the Gross Wt., Tare Wt. and Net Wt.
  - b) Totes
    - i) Totes shall be IBC totes that are rigid, caged and polypropylene. Tote volumes can be 275gal or 330gal.
    - ii) Totes must be identified as NSF 60 on the label.
    - iii) Totes shall have a 2" lower drain valve that will accept a quick-coupled connection or NPT.
    - iv) Totes will be removed from delivery truck by Bay Area Water Plant staff with a fork truck from ground level. The delivery truck will need to bring a pallet jack to assist in removal of totes from truck.
    - v) Tote deposit shall be clearly marked in billing as a separate line item.
    - vi) Unless otherwise noted, empty totes will be returned upon subsequent deliveries
- 3) The cost of delivery must be included in the bid price.
- 4) There shall be provisions made for security of the Water Treatment Plant. An email will be sent to the plant prior to receipt of shipment. The email shall include the driver's picture, their identity, shipping company name and truck number.
- 5) Proof of identity upon delivery and receipt of the email will be required before any shipment will be received.
- 6) Cost for these provisions must be included in the bid.
- 7) The Water Plant assumes no liability for additional costs in the event the above provisions are not met, causing delay or return of shipment.

BAY AREA WATER TREATMENT PLANT  
SPECIFICATIONS FOR SULFURIC ACID

PROPERTIES

1. Sulfuric Acid must meet Michigan Department of Environment, Great Lakes, and Energy Water Division requirements for water treatment chemicals certified to NSF/ANSI Standard 60. NSF 60 standard must be on certificate of analysis, SDS, and must be proven by chemical supplier with link to NSF.org.
2. Sulfuric Acid shall meet solution strength of 39-41%.

DELIVERY REQUIREMENTS DELIVERY REQUIREMENTS

- 1) Orders shall be made as required and requested by telephone or email. Delivery is normally within 10 days of the request. Deliveries will be accepted from 8:00 a.m. to 2:00 p.m. Monday through Friday except on holidays. The Sulfuric Acid shall be delivered to the Bay Area Water Treatment Plant at the following address:

2701 N Euclid Ave  
Bay City, MI 48706

(989) 439-7245

- 2) Delivery will be in bulk truck loads or in approved totes. All required paperwork, including Certificate of Analysis, SDS, and proof of NSF 60 must be available before product is offloaded. A sample must be taken by the driver from bulk load or plant staff will take one from a tote to be analyzed and verified prior to offloading.

a) Bulk Loads

- i) The Sulfuric Acid shall be delivered as required by the Bay Area Water Treatment Plant in truckload shipments of approximately 900 gallons per load, bulk delivery or IBC tote, approximately once per year. The supplier shall include a certificate of analysis with each load that includes the strength of the sulfuric acid, between 39-41%.
- ii) The Sodium Hydroxide is to be unloaded through a 2" quick-coupled connection. Weight tickets from approved scales are required for each shipment. Each weight shall show the Gross Wt., Tare Wt. and Net Wt.

b) Totes

- i) Totes shall be IBC totes that are rigid, caged and polypropylene. Tote volumes can be 275gal or 330gal.
- ii) Totes must be identified as NSF 60 on the label.
- iii) Totes shall have a 2" lower drain valve that will accept a quick-coupled connection or NPT.
- iv) Totes will be removed from delivery truck by Bay Area Water Plant staff with a fork truck from ground level. The delivery truck will need to bring a pallet jack to assist in removal of totes from truck.
- v) Tote deposit shall be clearly marked in billing as a separate line item.
- vi) Unless otherwise noted, empty totes will be returned upon subsequent deliveries.

- 3) The cost of delivery must be included in the bid price.
- 4) There shall be provisions made for security of the Water Treatment Plant. An email will be sent to the plant prior to receipt of shipment. The email shall include the driver's picture, their identity, shipping company name and truck number.
- 5) Proof of identity upon delivery and receipt of the email will be required before any shipment will be received.
- 6) Cost for these provisions must be included in the bid.
- 7) The Water Plant assumes no liability for additional costs in the event the above provisions are not met, causing delay or return of shipment.

BAY AREA WATER TREATMENT PLANT  
SPECIFICATIONS FOR CITRIC ACID

PROPERTIES

1. Citric Acid must meet Michigan Department of Environment, Great Lakes, and Energy Water Division requirements for water treatment chemicals certified to NSF/ANSI Standard 60. NSF 60 standard must be on certificate of analysis, SDS, and must be proven by chemical supplier with link to NSF.org.
2. Citric Acid shall meet solution strength of 49-51%.

DELIVERY REQUIREMENTS

1. Orders shall be made as required and requested by telephone or email. Delivery is normally within 10 days of the request. Deliveries will be accepted from 8:00 a.m. to 2:00 p.m. Monday through Friday except on holidays. The Citric Acid shall be delivered to the Bay Area Water Treatment Plant at the following address:

2701 N Euclid Ave  
Bay City, MI 48706

(989) 439-7245

2. The Citric Acid shall be delivered as required by the Bay Area Water Treatment Plant in truckload shipments of approximately 3,500 gallons per load, bulk delivery approximately 1 load per year. The bidder shall include a certificate of analysis with each load that includes the strength of the citric, between 49-51%. Chemical will not be unloaded unless Certificate of Analysis, SDS, and proof of NSF 60 are on site at time of delivery.
3. The Citric Acid is to be unloaded through a 2" quick-coupled connection. Weight tickets from approved scales are required for each shipment. Each weight shall show the Gross Wt., Tare Wt. and Net Wt.
4. The cost of delivery must be included in the bid price.
5. There shall be provisions made for security of the Water Treatment Plant. An email will be sent to the plant prior to receipt of shipment. The email shall include the driver's picture, their identity, shipping company name and truck number.
6. Proof of identity upon delivery and receipt of the email will be required before any shipment will be received.
7. Cost for these provisions must be included in the bid.
8. The Water Plant assumes no liability for additional costs in the event the above provisions are not met, causing delay or return of shipment.

Revised: 3/22/2022 mw

BAY AREA WATER TREATMENT PLANT  
SPECIFICATIONS FOR SODIUM HYDROXIDE

PROPERTIES

1. Sodium Hydroxide must meet Michigan Department of Environment, Great Lakes, and Energy Water Division requirements for water treatment chemicals certified to NSF/ANSI Standard 60. NSF 60 standard must be on certificate of analysis, SDS, and must be proven by chemical supplier with link to NSF.org.
2. Material must be manufactured in accordance with AWWA Standard B501-19
3. Sodium Hydroxide shall meet solution strength of 25%

DELIVERY REQUIREMENTS

1. Orders shall be made as required and requested by telephone or email. Delivery is normally within 10 days of the request. Deliveries will be accepted from 8:00 a.m. to 2:00 p.m. Monday through Friday except on holidays. The Sodium Hydroxide shall be delivered to the Bay Area Water Treatment Plant at the following address:

2701 N Euclid Ave  
Bay City, MI 48706

(989) 439-7245

2. Delivery will be in bulk truck loads. All required paperwork , including Certificate of Analysis, SDS, and proof of NSF 60 must be available before product is offloaded. A sample must be taken by the driver from bulk load or plant staff will take one from a tote to be analyzed and verified prior to offloading
3. The Sodium Hydroxide shall be delivered as required by the Bay Area Water Treatment Plant in truckload shipments of approximately 3,500 gallons per load, bulk delivery. Anywhere from 2-3 loads are expected for the year totaling approximately 7,000 gal/yr.. The bidder shall include a certificate of analysis with each load that includes the strength of the sodium hydroxide, between 24-26%.
4. The Sodium Hydroxide is to be unloaded through a 2" quick-coupled connection. Weight tickets from approved scales are required for each shipment. Each weight shall show the Gross Wt., Tare Wt. and Net Wt.
5. The cost of delivery must be included in the bid price.
6. There shall be provisions made for security of the Water Treatment Plant. An email will be sent to the plant prior to receipt of shipment. The email shall include the driver's picture, their identity, shipping company name and truck number.
7. Proof of identity upon delivery and receipt of the email will be required before any shipment will be received.
8. Cost for these provisions must be included in the bid.
9. The Water Plant assumes no liability for additional costs in the event the above provisions are not met, causing delay or return of shipment.

Revised: 3/22/2022 mw

CHECK LIST: BEFORE SUBMITTING YOUR BID

YES

- |    |   |      |
|----|---|------|
| 1. | Before the bid due date, check our website to make sure there are no description, quantity or addendum(s) changes to the bid copy. Go to <a href="http://www.saginaw-mi.com">www.saginaw-mi.com</a> , click on the "Find a Bid" link. | ____ |
| 2. | Assuming they are permitted, if you're submitting an alternate(s) bid the pricing must be clearly listed and the page labeled "ALTERNATE". All support information should also be attached and labeled Alternate #1, #2, and #3, etc. | ____ |
| 3. | Is your bid signed in BOTH PLACES by an authorized representative of your company?  | ____ |
| 4. | Have you provided the payment terms & delivery lead time information?   | ____ |
| 5. | Is the OUTSIDE of your FEDEX, UPS or REGULAR ENVELOPE properly labeled with the bid number?   | ____ |
| 6. | Are you submitting your original bid plus ONE (1) COPY as required?   | ____ |
| 7. | If your bid is over \$100,000.00 do you have a Bid Bond, Certified Bank Check or Money Order enclosed?  | ____ |
|    | a. Multiple year bids should be added together to get your total.   |      |
|    | b. If submitting an alternate proposal along with your original bid, only one (1) of the above mentioned items is required.   |      |

NOTE: An **original** Bid Bond, Certified Check, Bank Money Order or Cashier's Check in the amount of five percent (5%) of the total amount bid must be submitted with any bid in excess of \$100,000. **Facsimiles or copies of the bid bond will not be accepted and your bid will be disqualified if submitted.**

PAYMENT TERMS: \_\_\_\_\_, DELIVERY LEAD TIME: \_\_\_\_\_

FOB: VARIES BY CITY

The City reserves the right to accept or reject any and all bids, or parts thereof, and to waive any irregularities which do not materially affect the bid document or otherwise conflict with statute or ordinance. Any rejections of bids shall be made only if there is a sound documented reason for same.

As part of the consideration for this bid, the undersigned does hereby agree to have withheld from any payment due them, any amounts owed for taxes, fees or other charges due the City of Saginaw.

Per Section 14 of The City of Saginaw Uniform Income Tax Ordinance, the tax percentage is 1.5% on income earned from the City. The tax shall apply on the taxable net profits of a corporation doing business with the City, being levied on such part of the taxable net profits as is earned by the corporation as a result of work done, services rendered and other business activities conducted with the City, as determined in accordance with this Ordinance.

## **BIDDER REQUIREMENTS:**

### **INDEMNITY AND INSURANCE REQUIREMENTS**

#### **INDEMNITY**

The Contractor shall indemnify and save harmless the City of Saginaw, its officers and employees of and from all loss or damage caused to any person or property by reason of any carelessness or negligence in the doing or making of the work specified herein, and by reason of failure to pay all persons who shall supply said Contractor with materials, provisions and supplies for the performance and completion of said contract, and to promptly pay all just debts, dues and demands incurred in the completion of this contract, or of whatsoever other kind or nature, which shall be caused by delay or failure in the performance and completion of this contract, and further to indemnify and save harmless of and from all suits and actions the City of Saginaw, its officers and employees, on account of any injuries or damages sustained by any person or persons by reason of any act, or omission or negligence, or by the use of improper or defective material on the part of said Contractor in the performance of any part of this contract, and further to indemnify and protect any and all demands, fees or royalties for any patented invention, materials, articles, methods, arrangements or process of manufacture or any infringements thereon, that may be used on or be in any manner connected with the construction, erection or maintenance of the work, material, or any part thereof, embraced in this contract.

#### **INSURANCE**

During the life of the contract, the Contractor shall effect and maintain the following types of insurance:

Comprehensive General Liability, including Contractual liability with combined single-limit coverage of at least **\$500,000.00 naming the City of Saginaw as additional insured.**

Automobile Liability

Worker's Disability Insurance

Such insurance shall be carried by financially responsible companies, licensed in the State of Michigan, and satisfactory to the City. The Contractor shall submit to the City for review and approval certificates of insurance for the above required coverage's. The certificate of insurance shall provide at least 30-days written notice to the City of any changes in the policy and any cancellation or termination thereof.

### **§ 14.36, PREFERENCE FOR LOCAL BIDDERS**

(A) (1) If the lowest bidder is not a Saginaw-based bidder, as defined above, any Saginaw-based bidder with a bid within 5% of the lowest bid shall be deemed the lowest bidder if it agrees to reduce its bid to match the bid of the lowest bidder. Such a bidder will remain bound to all other terms of their original bid. (2) A lowered bid by a Saginaw-based business which is premised upon, in whole or in part, changes to or variances to the bid specifications, contract requirements, or scope of work, shall be considered non-responsive and will not be considered.

(B) If such a Saginaw-based business refuses to reduce its bid to match the lowest bid, then the next lowest responsive and responsible Saginaw-based business with a bid within 5% of the lowest bid shall be deemed the lowest bidder, if it agrees to reduce its bid to match the bid of the lowest bidder. Such a bidder will remain bound to all other terms of their original bid.

(C) If no responsive and responsible Saginaw-based businesses within 5% of the lowest bid agree to reduce their bids, then the contract shall be awarded to the person or business with the lowest, most responsive and responsible bid.

(D) In the event of a tie between two (2) or more Saginaw-based businesses, where all other factors are equal, the award of the bid shall be by coin toss conducted by the Purchasing Officer or his/her designee.

(E) No contract awarded pursuant to this ordinance shall be sublet in any manner that permits 50% or more of the dollar value of the contract to be performed by a subcontractor or subcontractors who do not meet the definition of "Saginaw-based business".

(F) The section shall not waive or constrain, in any manner, the right and prerogative of the City to reject any and all bids or proposals from any Saginaw-based business which fails to meet the requirements of any other section of this ordinance, or to reject a bid which is in any way incomplete, irregular, not responsive or not responsible.

(G) Local preferences shall not be applied in cases of procurements funded, even in part, with federal dollars, unless such procurement is for architectural and engineering services. When contracting for architectural and engineering services, local preference may be a selection criterion provided its application leaves an appropriate number of qualified vendors, given the nature and size of the project, to complete the contract.

#### **ADDITIONAL BIDDER REQUIREMENTS:**

1. Each proposal shall be good for 120 days from the bid opening date, unless otherwise stated on the bid document.
2. Each bidder shall include one (1) additional copy of your proposal marked "COPY".
3. Each bidders Envelope, FedEx Box/Letter, UPS Box/Letter or any other method of sealed delivery must have the bid number on the outside of the container. Unmarked bids may be inadvertently opened which would result in disqualification. Additionally, unmarked bids may be subject to missed deadlines due to improper labeling.
4. All bids over \$100,000.00 must include a bid bond, certified bank check or money order. If agreement is for multiple years, each year should be combined for your total. (See "Sealed Bid Instructions" page).
5. ALL OR NONE DEFINED: "All or None" means bidders are required to submit pricing for all years and all items requested. Any proposal received that does not meet this requirement will be disqualified. If said bid is not listed as "All or None" the City reserves the right to split said bid to our best benefit.
6. Each City of Saginaw Department shall be viewed as a separate account (not a blanket account) with the respective successful bidder(s).
7. When a brand is identified, or when a specific method or process is requested, you may quote an equal. You must identify the brand, model, part number, etc., method or process and enclose literature verifying equal (when applicable). City personnel retain the right to determine equals. If the item(s) states "No Substitutions", no substitutes will be accepted.
8. All shipping and handling charges and all cost associated with the delivery, installation and/or completion of the product or service requested must be included in your bid price, including but not limited to any Titles, Fees, and Transfer cost. All vehicles purchased by The City shall be titled to "City of Saginaw". Please consult with the Purchasing Office for Title and License Plate instructions. **Where applicable and unless otherwise noted, your bid pricing must remain constant for the length of the agreement and/or contract period.**

9. In the event the successful bidder uses a Third Party Company to provide the goods and/or services requested, the successful bidder must notify the Purchasing Office before said goods are shipped and/or services are provided. At that time the City reserves the right to accept or reject the use of a third party. The successful bidder shall be solely responsible for payment to the third party company.
10. The City of Saginaw at its sole discretion may choose to extend any agreement/contract for goods and/or services for a period of no more than two (2) one year extensions providing the bidder is willing to keep their pricing for said goods and/or services the same as the previous agreement and/or contract.
11. The items on this bid may be requested on an "as needed" basis based on the needs of the City.
12. Regarding addendums, the full addendum document and any other items noted as such must be returned and included with your sealed bid.
13. All bids must be returned to the Purchasing Office at 1315 S. WASHINGTON, SAGINAW, MI 48601, by the previously stated due date. **PLEASE NOTE:** The Purchasing office closes at 4:00 p.m. daily. As such, bids hand delivered prior to the above mentioned deadline must be received before the office closes.
14. **IRAN ECONOMIC SANCTIONS ACT:** The act provides that Iran linked businesses are ineligible from submitting a bid on the City's requests for proposals. The Act further provides that the City shall require all bidders to certify that they are not Iran linked businesses.

**Definition:** Iran linked businesses are those linked to the Iranian energy sector. An Iran linked business is specifically defined as:

(i) A person engaging in investment activities in the energy sector of Iran, including a person that provides oil or liquefied natural gas tankers or products used to construct or maintain pipelines used to transport oil or liquefied natural gas for the energy sector of Iran.

(ii) A financial institution that extends credit to another person, if that person will use the credit to engage in investment activities in the energy sector of Iran.

The provisions of the Act are only in effect if a country is a state sponsor of terror. A state sponsor of terror is defined as any country determined by the United States secretary of state to have repeatedly provided support for acts of international terrorism. Iran is currently on the US SOS state sponsor of terrorism list (<http://www.state.gov/j/ct/list/c14151.htm>), along with Cuba, Sudan, and Syria.

By submitting a response to this request for proposal, the bidder agrees to the terms and conditions set forth herein. Any changes made to such terms and conditions by bidder in bidder's response may result, at the City's sole discretion, in the bidder's disqualification.

The successful bidder will conform to all specifications and requirements which are attached and incorporated as part of this bid. The City reserves the right to accept or reject any and all bids, or parts thereof, and to waive any irregularities in the bid except those specifically mentioned in the sealed bid instructions. Additionally, (if applicable) we reserve the right to add or delete any items(s) and/or service from this bid to the best benefit of The City of Saginaw.

By signature, the bidder acknowledges that the signer has complete authority to execute the bid on behalf of the bidder and that the bid is genuine and not collusive in any manner; and that no other bidders were improperly induced to refrain from bidding or induced to submit a sham bid; and that the bidder agrees to have withheld from any payment due them, any amounts owed for taxes or other charges due the City of Saginaw; and that successful bidders are subject to mandatory City of Saginaw income tax withholdings.

COMPANY: \_\_\_\_\_  
DATE: \_\_\_\_\_  
SIGNATURE: (INK) \_\_\_\_\_  
PRINTED NAME : \_\_\_\_\_  
TITLE: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
CITY, STATE, ZIP: \_\_\_\_\_  
TELEPHONE#: \_\_\_\_\_  
FAX #: \_\_\_\_\_  
EMAIL: \_\_\_\_\_

**Michigan's Iran Economic Sanctions Act:**

The signature below certifies your company is in compliance with the Michigan Iran Economic Sanctions Act as identified on the above page of this document. Further information on this act can be viewed at (<http://www.state.gov/j/ct/list/c14151.htm>).

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Printed Name**

\_\_\_\_\_  
**Title**

If this bid proposal is selected as the lowest and best offer, it will be accepted in the following manner:

- 1) The city council will approve this bid proposal at a regularly scheduled or special meeting.
- 2) The city's purchasing officer will sign this bid proposal on behalf of the city. The bid proposal shall then constitute a written contract between the parties.
- 3) For administrative purposes, the city will also issue a sequentially numbered purchase order.

**CITY OF SAGINAW, a Municipal Corporation**

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
(PURCHASING OFFICER)

1315 S. WASHINGTON  
SAGINAW, MICHIGAN 48601  
TELEPHONE: (989) 759-1430  
FACSIMILE: (989) 759-1498

The Purchase Order/Contract cannot be increased over 10% of the total purchase order without the prior approval of City Council.

This offer is accepted by the issuance of a purchase order signed by The City Purchasing Officer for all or any portion of this bid and shall constitute a contract between the parties.

All invoices must be submitted within sixty (60) days from the time of delivery of goods or services or the completion of projects. Invoices must make reference to a valid purchase order number in order to be paid. All invoices that do not reference a valid purchase order number will be held for validation and/or returned to the original source.

**NOTICE TO ALL BIDDERS**

**SEALED BID DOCUMENTS:**

EFFECTIVE IMMEDIATELY: All interested bidders may obtain sealed bid document forms, proposal instructions, general specifications, and bid results from the City of Saginaw website [www.saginaw-mi.com](http://www.saginaw-mi.com), go to "Find a Bid" and scroll down to the applicable document.

You can refer to this site for information on our future bid requirements as well as bid results. Companies who do not have access to the internet may contact the Purchasing office at 989-759-1430 to request bid document copies.

**City of Saginaw, Michigan  
Purchasing Division  
(989) 759-1430**

**SEALED BID INSTRUCTIONS**

**SEALED BIDS MUST BE SUBMITTED ACCORDING TO THE FOLLOWING  
INSTRUCTIONS OR YOUR BID WILL BE DISQUALIFIED**

1. Bids must be submitted on printed forms furnished by the City Purchasing Office. Voluntary alternates may be attached to bid form, if necessary.
2. Bids must be in ink or typewritten.
3. Bids must contain bidder's complete name, address and telephone number.
4. Bids must be signed in ink and dated.
5. Bids must include delivery or completion time.
6. If an addendum (Form B02) is issued by the City, it must be signed, dated and returned with bid.
7. An **original** bid bond, certified check or cashier's check in the amount of five percent (5%) of the total amount bid must be submitted with any bid in excess of \$100,000. If agreement is for multiple years, each year should be combined to get your total cost. **Facsimiles or copies of the bid bond will not be accepted and your bid will be disqualified if submitted.**
8. All erasures or corrections to pricing information must be initialed in ink.
9. In case of a discrepancy between a unit price and its extension, the unit price will be considered correct and the bid will be recalculated to determine the amount bid. All addition errors will be corrected and the total bid will be adjusted to reflect the corrections.
10. All bids must be in the City Purchasing Office by the date and time specified on bid forms. The Purchasing Office is located at Saginaw City Hall in room #105.
11. Each bid must be enclosed in a sealed envelope with the "**bid number**" marked on the front.
12. Each bidder's envelope, FEDEX box/letter, UPS box/letter or any other method of sealed delivery must have the bid number on the outside of the container. Unmarked bids will be disqualified.

NO CONTRACT SHALL BE VALID UNLESS APPROVED BY CITY COUNCIL. Pursuant to the Charter of the City of Saginaw, written contracts involving the expenditure of \$2,000 or more shall require the approval of City Council. No City employee has the authority to bind the City to such a contract.

**RIGHT OF CITY TO ACCEPT OR REJECT BIDS**

The city reserves the right to accept or reject any and all bids, or parts thereof, and to waive any irregularities which do not materially affect the bid document or otherwise conflict with statute or ordinance. Any rejections of bids shall be made only if there is a sound documented reason for same.

## **GENERAL INFORMATION**

**MAIL OR DELIVER ALL SEALED BIDS TO THE FOLLOWING ADDRESS BY THE DATE, TIME AND OFFICE HOUR DEADLINE SPECIFIED ON BID FORM:**

**CITY OF SAGINAW PURCHASING OFFICE  
ROOM #105  
1315 S. WASHINGTON AVENUE  
SAGINAW, MICHIGAN 48601**

### **NO CONTRACT SHALL BE VALID UNLESS APPROVED BY CITY COUNCIL**

Pursuant to the Charter of the City of Saginaw, written contracts involving the expenditure of \$2,000 or more shall require the approval of City Council. No City employee has the authority to bind the City to such a contract.

### **ALTERATION OF BID BY BIDDER**

After bids have been opened, the bidder will not be allowed to withdraw, modify, or correct any bid.

### **EVIDENCE OF BIDDER'S QUALIFICATIONS**

Bidders may be required to give some satisfactory evidence that they have been regularly engaged in the business or are reasonably familiar therewith, and that they are fully prepared with the necessary capital, materials, and machinery to complete the work or to furnish the materials contracted for to the satisfaction of the City.

### **FAMILIARITY OF BIDDER WITH CONTRACT REQUIREMENTS**

Bidders are warned that they must inform themselves of the character and amount of work, labor, or material to be furnished under the contract.

### **CONTRACT ASSIGNMENTS OR TRANSFERS PROHIBITED**

The assignment or transfer of a contract, or of interests in the contract are prohibited unless approved by the proper City department and City Council.

### **CITY INCOME TAX COMPLIANCE**

Bidders are hereby notified that the City of Saginaw has an income tax. All successful bidders will be subject to income tax withholdings and compliance is mandatory.

### **WITHHOLDING FROM PAYMENTS**

As part of the consideration for any bid/contract, all bidders agree to have withheld from any payments due them, any amounts for taxes, fees or other charges due the City of Saginaw.

### **CONTRACT COMPLIANCE ORDINANCE**

The City of Saginaw has a Contract Compliance Ordinance which requires bidders to submit documentation furnished by the City indicating compliance with the Ordinance. Contract compliance forms must be sent to the City Purchasing Office; 1315 S. Washington Avenue; Saginaw, Michigan 48601. Forms may be obtained by calling (989) 759-1430.

### **INSTRUCTIONS AS PART OF CONTRACT**

These instructions are to be construed with and made a part of the contract or purchase order.