

ADVERTISEMENT FOR BIDS

THE City of Craig, Colorado will receive sealed bids for **CHEMICALS** until 2:00 p.m., January 19, 2021, at the office of the City Clerk, 300 West Fourth Street, Craig, Colorado 81625, at which time they will be publicly opened and read aloud. The bids will be awarded at the City Council meeting on January 26, 2021. The specifications for the chemicals are on file at the office of the City Clerk, 300 West Fourth Street, Craig, Colorado 81625, (lwhite@ci.craig.co.us) phone number (970) 826-2008.

No bid shall be withdrawn after opening the bid without the consent of the City of Craig, for a period of 30 days after the scheduled time for opening bids.

The City of Craig, Colorado (www.craig.co.us) reserves the right to reject any or all bids and to waive any informality in the bidding.

The bids shall be completely filled out on the bid forms provided. Bids shall be addressed to the City of Craig and shall have the name of the bidder and "Chemical Bids" written thereon. Failure to comply with the provisions of this paragraph will be cause for rejection of bid.

City of Craig, Colorado

Jarrod Ogden, Mayor

Liz White, City Clerk

Published: December 18, 23, 2020 & January 6, 2021

BID PROPOSAL FORM
CHEMICALS
CITY OF CRAIG

Bidder Name: _____

Bidder Address: _____

Bidder Phone No.: _____

Signature: _____

Title: _____

Date: _____

BID PROPOSAL FORM
CHEMICAL
CITY OF CRAIG

The bidder of this proposal as bidder declares and agrees:

That he has received and examined the bid specifications and is cognizant of the requirements.

That is if this proposal is accepted, he will contract to furnish the required chemical(s) as specified.

That the bid price is for chemical(s) as specified, delivered to Craig, Colorado.

The bidder hereby proposes to furnish the specified chemical(s) for the following prices:

Item A	LIQUID POLYALUMINUM CHLORIDE Unit price per pound basis (Bulk)	\$ _____
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Item B	SALT (NaCl) Unit price per 50 lb. Bag	\$ _____
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Item C	SODA ASH Unit price per 50 lb. Bag	\$ _____
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Item D	CHLORINE - 1 TON CYLINDER Unit price per cylinder	\$ _____
	Returnable deposit charge per cylinder	\$ _____

Item E	SULFUR DIOXIDE - 1 TON CYLINDER Unit price per cylinder	\$ _____
	Returnable deposit charge per cylinder	\$ _____

Item F	POTASSIUM PERMANGANATE Unit price per pound basis	\$ _____
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Item G	SODIUM FLUOROSILICATE Unit price per 50 lb. Bag	\$ _____
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Item H POWDERED ACTIVATED CARBON
Unit price per 50 lb. Bag \$_____

Item I COAGULANT AID POLYMER
Unit price per 100 lb. basis \$_____

Item J FILTER AID POLYMER
Unit price per 100 lb. basis \$_____

Item K CALCIUM HYPOCHLORITE
Unit price per 100 lb. basis \$_____

Item L SODIUM HYPOCHLORITE
Unit price per gallon basis (Bulk) \$_____

(55-gallon drum) \$_____

Item M AMMONIUM SULFATE SOLUTION 40%
Unit price per gallon (Tote) \$_____

(55-gallon drum) \$_____

SPECIFICATIONS

CHEMICALS CITY OF CRAIG

The City of Craig is requesting bids for chemicals for 2021.
The following conditions shall be applicable to the bids:

1. The chemicals will be purchased on an as-needed basis.
2. Estimated quantities for each type of chemical have been listed for bidding purposes. Actual quantities purchased during 2021 may be more or less for each type of chemical.
3. The City is a tax-exempt municipality.
4. The unit price listed on the Bid Proposal Form shall be for the specified chemical delivered to the Craig Water Treatment Plant or Craig Wastewater Treatment Plant in Craig, Colorado, and shall include any shipping charges or fuel surcharge fees.
5. The Unit prices, and/or returnable deposit charges listed on The Bid Proposal Form shall be valid for the 2021 calendar year.
6. A bidder may submit a bid for any or all of the chemicals listed. Each item listed on the Bid Proposal Form will be individually considered with a separate award for each item. Any deposit charges will be used in determining the lowest bid.
7. The chemicals shall be delivered to the Craig Water Treatment Plant, at 111 S. Ranney St. or the Craig Wastewater Treatment Plant, at 2301 W. 1st St. within 72 hours of notification by the City, unless prior arrangements have been made. If the chemicals are unavailable within the specified time, the City may secure the chemicals from any available source. Chemicals may also be randomly tested, by the city's staff, for quality control upon delivery. If a delivery is found to be below standard it may be rejected and the city will acquire the chemical from an alternate source.
8. All chemicals bid shall meet or exceed AWWA standards specifications, and be NSF 60/61 approved for potable water production, with the exception of item "E".
9. Safety Data Sheets shall be provided by the vendor for all chemicals that are bid on. SDS and NSF 60/61 approval certification must accompany all bids. A digital copy of the SDS and NSF approval can be substituted for a hardcopy.
10. Failure to provide the SDS and/or NSF60/61 certification statement for any items bid on, may be cause for the rejection of the bid.

A. LIQUID POLYALUMINUM CHLORIDE: Liquid Polyaluminum Chloride (PACL) shall be of commercial grade and meet or exceed AWWA standard B408-18 and be NSF approved for drinking water purposes. All PAC's shall first be tested and proven to work at the City of Craig's water plant under various seasonal raw water conditions for a minimum of a (1 week) full plant trial testing. All chemicals (approximately 500 gallons or 2 Totes) for this trial will be supplied by the vendor at no charge (if the chemical fails to perform satisfactorily) to the CITY OF CRAIG. Prior approval is needed before the bid is accepted. PACL approvals as of this time are Summit Research Labs - Sumaclear 820B and 1158, and CalChem Enterprises Inc – CC2220 & CC2215.

Estimated quantity required in 2021:	24,000 gallons
Normal quantity requested per order:	4,000 gallons (Bulk)

B. SALT (NaCl): Salt (pelletized/rock) shall meet or exceed AWWA standard B200-17 and the quality specifications below. This salt is used in (DeNora's - ClorTec) sodium hypochlorite generation process. The salt quality shall contain **NO** organic binders, flow control agents or resin cleaning materials. The salt shall be packaged in 50-pound bags and delivered on pallets of approximately (1) ton each. Pallets must be delivered on a flatbed truck and/or trailer, and side loaded for easier unloading (large opening facing the side of the truck or trailer). Acceptable salt manufacturers and brands at this time are (North American Salt Co., Solar "Sure Soft" Extra Course Salt @ 99.8% Pure, Product #34050 & Cargill, "Pros Pick" Solar Salt.

NaCl quality specifications:

Dry basis -	96.30%	minimum
Wet-	93.30%	minimum
Calcium Sulfate-	0.30%	maximum
Magnesium Chloride-	0.06%	maximum
Calcium Chloride-	0.10%	maximum
Magnesium Sulfate-	0.02%	maximum
Insolubles-	0.10%	maximum
Moisture (as H2O)-	3.00%	maximum
Lead-	0.0007%	maximum
Copper-	0.0003%	maximum
Iron (as Fe)-	0.002%	maximum
Fluoride-	0.01%	maximum

Estimated quantity for 2021:	88,000 pounds
Normal quantity requested per order:	880 bags@50#/bag

C. SODA ASH: Soda Ash shall be of natural material, commercial grade to meet or exceed AWWA standard B201-18 for drinking water purposes. The following will be used as acceptable guidelines for chemical quality criteria, but are not limited to:

1. Technical grade/Dense
2. Na_2CO_3 ----- 99.7%
3. Sodium Oxide----- 58.4%
4. Sodium Sulfate----- 0.03%
5. Sodium chloride-----0.002%
6. Sodium Bicarbonate----- 0.10%
7. Water----- 0.15%
8. Iron-----67 ppm
9. Weight shall be 67 lbs. Per cu. Ft

Estimated quantity required in 2021:	25,000 lbs.
Normal quantity requested per order:	250 bags @ 50#/bag

D. CHLORINE-1 Ton cylinders: The chlorine shall be of commercial grade to meet or exceed AWWA standard B301-18 for drinking water purposes. The cylinder's top valve opening orientation shall be to the right (at 3 o'clock). Chlorine shall be delivered on trucks that have a hydraulic lift tailgate system.

Estimated quantity required in 2021:	10,000 lbs.
Normal quantity requested per order:	1 cylinder

E. SULFUR DIOXIDE-1 Ton cylinders: The sulfur dioxide shall be commercial grade for purposes of dechlorination at the Wastewater Treatment Plant and shall meet or exceed AWWA standard B512-15. The cylinder's top valve opening orientation shall be to the right (at 3 o'clock). Sulfur Dioxide shall be delivered on trucks that have a hydraulic lift tailgate system.

Estimated quantity required in 2021:	10,000 lbs.
Normal quantity requested per order:	1 cylinder

F. POTASSIUM PERMANGANATE – Is a free-flowing granular chemical used for taste and odor control. It shall meet or exceed AWWA standard B603-16 for drinking water purposes.

1. Formula: KMnO_4
2. Must be free flowing grade
3. Delivery shall be in 55-pound plastic buckets.
4. Manufactured by Carus Chemical Company or equal (K-OX brand is acceptable)

Estimated quantity required in 2021:	10000 lbs.
Normal quantity requested:	2000 lbs.

G. SODIUM FLUOROSILICATE: Fluoride shall be used for drinking water purposes. It shall be approved by the E.P.A. and the State of Colorado Health Department. It shall be commercial grade and shall meet or exceed AWWA standard B702-18 for drinking water purposes.

Estimated quantity required in 2021:	4,000 lbs.
Normal quantity requested per order:	80 bags @ 50#

H. POWDERED ACTIVATED CARBON (bagged): Carbon shall be used for drinking water purposes. It shall be approved by the E.P.A. and the State of Colorado Health Department. It shall meet or exceed AWWA standard B600-16.

Estimated quantity required in 2021:	8,000 lbs.
Normal quantity requested per order:	4,000 lbs.

I. COAGULANT AID POLYMER:

1. Shall be a nonionic/anionic type polymer.
2. Shall be in Liquid form.
3. Polymer will be delivered in 55-gallon plastic or steel drums.
4. Polymer shall be approved for use in potable water production.
5. Meets or exceeds AWWA Standard B453-19 or B452-20.
6. Shall comply with all testing requirements below.
7. The only acceptable polymer at this time for item (I) is Thatcher's T-Floc 1465.

All polymers shall first be tested and proven to work successfully under various water quality conditions prior to being eligible to bid. All costs associated for these tests shall be the responsibility of the prospective vendor. These tests include both jar test analysis to initially determine the vendor's best type of polymer to use followed by the vendor supplying enough of this material for at least a week's worth of full plant use to verify that no adverse effects are encountered and the polymer performs to the staff's needs. Chemical vendors who wish to qualify to bid on polymers may contact staff at (970) 824-6340 to schedule testing dates.

Estimated quantity required in 2021:	4,000 lbs.
Normal quantity requested per order:	2 (55-gallon drums)

J. FILTER AID POLYMER:

1. Shall be a nonionic or anionic type polymer.
2. Shall be in liquid form.
3. Polymer will be delivered in 55-gallon plastic or steel drums.
4. Polymer shall be approved for use in potable water production.
5. Shall comply with all testing requirements specified in section (J) above.
6. Meets or exceeds AWWA Standard B453-19 or B452-20.
7. Acceptable polymers for item K are Thatcher's T-Floc 1465 and Nalco's 8181.

Estimate quantity required in 2021:	1,000 lbs.
Normal quantity requested per order:	2 (55-gallon drums)

Special Note: (Items I & J) A NSF 60, 40 CFR 141.111 Treatment Techniques for Acrylamide and Epichlorohydrin certification letter from the vendor, for all polymer bids, is required with the bid.

K. CALCIUM HYPOCHLORITE: Calcium Hypochlorite shall be of commercial grade to meet or exceed AWWA standard B300-18 and be NSF approved for drinking water purposes.

1. Calcium Hypochlorite is in solid form and shall be packaged in 100-pound plastic drums.
2. It shall be in granular or 1" tablet form whichever the city requests upon ordering.
3. The available chlorine concentration present shall be a minimum of 65% and shall be clearly marked on the drum label.

Estimated quantity required in 2021:	1,000 lbs.
Normal quantity requested per order:	500 lbs.

L. LIQUID SODIUM HYPOCHLORITE: Liquid Sodium Hypochlorite shall be commercial grade (approximately 12% chlorine) and meet or exceed AWWA standard B300-18 and be NSF approved for drinking water purposes.

Estimated quantity for 2021:	2,440	gallons
Normal quantity requested per order:	2,000	gallons (Bulk)
and/or	4	(55-gallon drums)

M. AMMONIUM SULFATE SOLUTION 40%: Liquid Ammonium Sulfate Solution 40% shall be of commercial grade to meet or exceed AWWA standard B302-16 and be NSF approved for drinking water purposes. It shall be supplied by ClearTech Industries Inc. or equivalent, and be delivered in plastic totes with a capacity of approximately 275 gallons/tote.

Estimated Quantity for 2021:	4,000	gallons
Normal quantity requested per order:	4	(Totes)
and/or	4	(55-gallon drums)