

2021 CHEMICAL BID FORM INSTRUCTIONS

Sealed bids will be received at the office of the City Auditor, City Hall, 225 4th Street North, Fargo, North Dakota 58102, until 11:30 o'clock a.m., Tuesday, November 10th, 2020 for the City of Fargo Water Treatment Plant & Regional Water Reclamation Facility for chemicals to be delivered as ordered between the hours of 7:30 am to 4:00 pm Monday through Friday for the year 2021. Bids can be mailed to the City Auditor or dropped in the blue, outside drop box located on the north side of City Hall. Bids will be opened and read aloud at 11:45 a.m. in the Engineering Conference Room in Fargo City Hall. The public is encouraged to view this bid opening from their computer, tablet, or smartphone by using the following link:

www.fargobidopenings.com

Please contact the office of Brian Ward, Fargo Water Treatment Plant, phone (701) 241-1470 or Mark Miller, Regional Water Reclamation Facility, phone (701) 241-1454 with any bid questions you have.

Please use only one bid form for all of the items you plan to bid, whether you are bidding one item or all items. Also, please be sure to label the outside of your envelope:

"Fargo WTP & RWRP Chemical Bid."

If addendums are issued, the bidder must acknowledge receipt of the addendum on the outside of the bid envelope, or the bid will be rejected and returned to the bidder unopened.

On the bid form there are five columns. The first two columns describe the products being bid. In the last three columns (#4, #5, and #6), the bidder is **required** to enter information for all the items being bid. Below is a description of the information contained in, or required for each column.

1. Column #1 – This column contains the item number of the product being bid.
2. Column #2 – This column lists the name of the product being bid.
3. **Column #3** – *Bid specifications for each chemical being bid must be acknowledged in this column. The bid specifications page(s) for each chemical being bid also lists specific product requirements and documentation that must be submitted with the bid. **Failure to acknowledge the bid specifications or failure to submit the required documentation within the bid specifications for chemicals being bid will result in bid being rejected.***
4. **Column #4** – *In this column you are **required** to verify whether or not your company will accept a credit card as payment. If your company does not accept credit card payment, write "NA" (not acceptable) in the cells for the chemicals you are bidding. If your company does accept credit cards as payment, list the amount that will be charged for the product using a credit card as payment. If there are service fees for using a credit card, be sure to include that cost in your price. Do this for each chemical you are bidding.*
5. **Column #5** – *In this column you are **required** to list your bid price for payment by purchase order. Do this for each chemical you are bidding.*
6. *On the bottom of the form, you **must** enter the company name as well as the signature of the authorized representative submitting the bid on the lines labeled:*

"Bid Submitted by (company): _____ "

"Signature of Authorized Representative _____ "

In the example below, there are six products being bid. The bidder has acknowledged the bid specifications for the products the bidder is bidding. Credit cards are acceptable as payment for five of the six products (the bidder does not accept credit cards for polyphosphate - NA). Credit card payment and purchase order payment are the same for chlorine, ferric chloride, and sodium hypochlorite, but the bidder has included service fees for credit card payment of anhydrous ammonia and lime. Lastly, the bidder has signed and listed his company name on the bottom of the page.

2021 BID FORM

Annual Bid to supply chemicals for the City of Fargo, ND, Water Treatment Plant and Regional Water Reclamation Facility from January 1, 2021 through December 31, 2021

Bid opening - 11:30am Tuesday, November 10, 2020

Engineering Conference Room in Fargo City Hall View online at: <http://www.fargobidopenings.com/>

*** For each line item bid, be sure to check or enter information in all yellow cells ***				
Item #	Item	Check this box to acknowledge bid specifications (x)	Guaranteed Bid Price Per Unit	
			Credit card payment (NA) if not acceptable	Purchase order (PO) payment
1	Aluminum Sulfate		\$/pound=	\$/pound=
2	Anhydrous Ammonia	X	\$/pound= 1.975	\$/pound= 1.95
3	Citric Acid, 50%		\$/pound=	\$/pound=
4	Hydrofluosilicic Acid		\$/pound=	\$/pound=
5	Hydrogen Peroxide, 34%		\$/pound=	\$/pound=
6	Lime	X	\$/ton= 180.00	\$/ton= 177.00
7	Liquid Carbon Dioxide		\$/ton=	\$/ton=
8	Liquid Chlorine	X	\$/ton= 470.00	\$/ton= 470.00
9	Liquid Oxygen		\$/ton=	\$/ton=
10	Aluminum Chlorohydrate		\$/pound=	\$/pound=
11	Polyphosphate	X	\$/pound= NA	\$/pound= 1.08
12	Ferric Sulfate 60%		\$/gallon=	\$/gallon=
13	Soda Ash		\$/ton=	\$/ton=
14	Sodium Bisulfite, 38%		\$/pound=	\$/pound=
15	Sodium Hydroxide, 50%		\$/pound=	\$/pound=
16	Sodium Hypochlorite, 12.5%		\$/pound=	\$/pound=
17 A	Sulfuric Acid, 40% / Drum		\$/pound=	\$/pound=
17 B	Sulfuric Acid, 40% / Pail		\$/pound=	\$/pound=
18	Sulfuric Acid, 93%		\$/pound=	\$/pound=
19	Anionic Flocculant (Residuals Plant)		\$/pound=	\$/pound=
20	Poly DADMAC 20		\$/pound=	\$/pound=
21	Anionic Polyacrylamide		\$/pound=	\$/pound=
22	Acetic Acid 56		\$/pound=	\$/pound=
23	Azone 15 / Sodium Hypochlorite		\$/gallon=	\$/gallon=
24	Pretreat Plus Antiscalant		\$/gallon=	\$/gallon=
25	Caustic Soda, 30%		\$/gallon=	\$/gallon=
26	Ferric Chloride, 35%	X	\$/pound= 0.110	\$/pound= 0.110
27	Ammonium Hydroxide, 19%		\$/pound=	\$/pound=
28	Sulfuric Acid, 40%		\$/pound=	\$/pound=
29	Citric Acid, 50%		\$/pound=	\$/pound=
30	Odor Control/Hydrogen Sulfide		\$/FT* media=	\$/FT* media=
31	Odor Control/Broad Spectrum		\$/FT* media=	\$/FT* media=
32	Calcium Nitrate / Bulk		\$/gallon=	\$/gallon=
	Calcium Nitrate / Tote		\$/gallon=	\$/gallon=
33	Sodium Hypochlorite 12%	X	\$/gallon= 2.40	\$/gallon= 2.40
34	Hydrogen Peroxide 34%		\$/gallon=	\$/gallon=
35	Cationic Flocculant		\$/pound=	\$/pound=

Bid Submitted by (company): Joel Chemical Service
 Signature of Authorized Representative: Joe Sellen

2021 CHEMICAL BID FORM

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Regional Water Reclamation Facility from January 1, 2021 through December 31, 2021

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***** For each line item bid, be sure to check or enter information in all yellow cells *****

Item #	Item	Check this box to acknowledge bid specifications (x)	Guaranteed Bid Price Per Unit	
			Credit card payment (NA) if not acceptable	Purchase order (PO) payment
1	Aluminum Sulfate		\$/pound=	\$/pound=
2	Anhydrous Ammonia		\$/pound=	\$/pound=
3	Citric Acid, 50%		\$/pound=	\$/pound=
4	Hydrofluosilicic Acid		\$/pound=	\$/pound=
5	Hydrogen Peroxide, 34%		\$/pound=	\$/pound=
6	Lime		\$/ton=	\$/ton=
7	Liquid Carbon Dioxide		\$/ton=	\$/ton=
8	Liquid Chlorine		\$/ton=	\$/ton=
9	Liquid Oxygen		\$/ton=	\$/ton=
10	Aluminum Chlorohydrate		\$/pound=	\$/pound=
11	Polyphosphate		\$/pound=	\$/pound=
12	Ferric Sulfate 60%		\$/gallon=	\$/gallon=
13	Soda Ash		\$/ton=	\$/ton=
14	Sodium Bisulfite, 38%		\$/pound=	\$/pound=
15	Sodium Hydroxide, 50%		\$/pound=	\$/pound=
16	Sodium Hypochlorite, 12.5%		\$/pound=	\$/pound=
17 A	Sulfuric Acid, 40% / Drum		\$/pound=	\$/pound=
17 B	Sulfuric Acid, 40% / Pail		\$/pound=	\$/pound=
18	Sulfuric Acid, 93%		\$/pound=	\$/pound=
19	Anionic Flocculant (Residuals Plant)		\$/pound=	\$/pound=
20	Poly DADMAC 20		\$/pound=	\$/pound=
21	Anionic Polyacrylamide		\$/pound=	\$/pound=
22	Acetic Acid 56		\$/pound=	\$/pound=
23	Azone 15 / Sodium Hypochlorite		\$/gallon=	\$/gallon=
24	Pretreat Plus Antiscalant		\$/gallon=	\$/gallon=
25	Caustic Soda, 30%		\$/gallon=	\$/gallon=
26	Ferric Chloride, 35%		\$/pound=	\$/pound=
27	Ammonium Hydroxide, 19%		\$/pound=	\$/pound=
28	Sulfuric Acid, 40%		\$/pound=	\$/pound=
29	Citric Acid, 50%		\$/pound=	\$/pound=
30	Odor Control/Hydrogen Sulfide		\$/FT³ media=	\$/FT³ media=
31	Odor Control/Broad Spectrum		\$/FT³ media=	\$/FT³ media=
32	Calcium Nitrate / Bulk		\$/gallon=	\$/gallon=
	Calcium Nitrate / Tote		\$/gallon=	\$/gallon=
33	Sodium Hypochlorite 12%		\$/gallon=	\$/gallon=
34	Hydrogen Peroxide 34%		\$/gallon=	\$/gallon=
35	Cationic Flocculant		\$/pound=	\$/pound=

Bid Submitted by (company): _____

Signature of Authorized Representative: _____

Item #1

LIQUID ALUMINUM SULFATE SPECIFICATIONS

Aluminum Sulfate shall be priced per wet pound as product, delivered in liquid form in a bulk tank truck, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

The supplier’s truck must be equipped to safely handle and unload bulk liquid aluminum sulfate.

The Fargo Water Treatment Plant owns one 8,500 gallon bulk storage tank. The storage tank will be filled from an exterior fill station through a 2” fill line with a quick disconnect type coupling.

The truck shall be equipped with a pump or air compressor to unload the tanker.

Liquid aluminum sulfate shall conform to the American Water Works Specification Standard B403-16.

A (COA) Certificate of Analysis must accompany each delivery.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

2021 usage is estimated to be 125 Tons.

<u>THREE YEAR AVERAGE MONTHLY CHEMICAL USAGE (TONS)</u>											
January	February	March	April	May	June	July	August	September	October	November	December
26	25	20	14	14	0	0	0	4	2	2	18

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A maximum application dosage in potable water treatment must accompany the bid.

A (SDS) Safety Data Sheet must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #2

ANHYDROUS AMMONIA (NH₃) SPECIFICATIONS

Anhydrous ammonia will be priced per pound, delivered in gas form in a bulk tank truck, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

The Fargo Water Treatment Plant owns a 2,000 gallon (10,000 pound) tank for bulk storage.

The anhydrous ammonia shall be the refrigeration grade and meet the following specifications:

% Solution	99.9% minimum
Ammonia, wt%	99.9% minimum
Water, wt%	0.020 maximum
Color:	Colorless
Oil, ppm by wt:	3.0 maximum

Material shall be suitable for use in a potable water system.

Anhydrous ammonia shall conform to American Water Works Association Specification Standard B305-15.

2021 usage is estimated to be 27 Tons.

THREE YEAR AVERAGE MONTHLY CHEMICAL USAGE (TONS)

January	February	March	April	May	June	July	August	September	October	November	December
2	2	2	2	2	3	3	3	2	2	2	2

An SDS (Material) Safety Data Sheet) must accompany the bid.

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A maximum application dosage in potable water treatment must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #3

CITRIC ACID, 50% SPECIFICATIONS

Citric acid, 50% shall be priced per wet pound as product, delivered in liquid form in 330 gallon totes, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

Citric acid, 50%, will be used in membrane cleaning-in-place (CIP) process for both Ultrafiltration membranes and reverse osmosis membrane. Citric acid shall not contain impurities that may foul membranes.

A (COA) Certificate of Analysis must accompany each delivery.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

2021 usage is estimated to be 27,500 pounds.

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A (SDS) Safety Data Sheet must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #4

HYDROFLUOSILICIC ACID (FLUORIDE) SPECIFICATIONS

Hydrofluosilicic acid shall be priced per wet pound as product, delivered in liquid form by bulk tank truck or totes f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

The Fargo Water Treatment Plant owns one 6,000 gallon bulk storage tank. The storage tank is located in the lower level of the water treatment plant and will be filled from an exterior fill station through a 2" fill line with a quick disconnect type coupling. Supplier is responsible for unloading of product into this storage tank.

The truck shall be equipped with a pump or air compressor to unload.

Hydrofluosilicic acid shall conform to the American Water Works Specification Standard B703-19.

Hydrofluosilicic acid shall be a 24 ± 1% solution.

2021 usage is estimated to be 92 Tons.

FIVE YEAR AVERAGE MONTHLY CHEMICAL USAGE (TONS)

January	February	March	April	May	June	July	August	September	October	November	December
6	6	6	6	8	11	12	11	9	6	6	5

An SDS (Material) Safety Data Sheet) must accompany the bid.

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A maximum application dosage in potable water treatment must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #5

HYDROGEN PEROXIDE, 34% SPECIFICATIONS

Hydrogen Peroxide, 34% shall be priced per wet pound as product, delivered in liquid form in 250 to 330 gallon totes, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

The Fargo Water Treatment Plant owns one 475 gallon storage tank. The storage tank is located in the lower level of the water treatment plant. Supplier must pump tote(s) into storage tank from an exterior fill station through a 2" fill line with a quick disconnect type coupling.

A (COA) Certificate of Analysis must accompany each delivery.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

2021 usage is estimated to be 3000 pounds.

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A maximum application dosage in potable water treatment must accompany the bid.

A (SDS) Safety Data Sheet must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #6

LIME (CaO) SPECIFICATIONS

Lime shall be priced per ton, delivered in dry form in a bulk tank truck, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

The Fargo Water Treatment Plant owns one lime storage bin with a capacity of 301 tons. The storage bin will be filled from an exterior fill station with 4” quick disconnect type couplings.

Delivery trucks with pneumatic blowers are required to unload the chemical.

Delivery of lime will be allowed at facility from hours 0700 to 2100 daily. There are no weekend or Holiday restrictions for delivery.

Lime shall conform to the American Water Works Specification Standard B202-19. It shall be high calcium quicklime, ¼” to ¾” in size.

Lime shall contain a minimum of 90% available calcium oxide and a maximum of 2.5% magnesium oxide.

On slaking, the lime shall produce a minimum 40-degree centigrade temperature rise in the first 30 seconds.

Consider the following five-year historical usage summary. Usage in 2021 is projected to be 16% less than 5 year average. Please plan deliveries accordingly.

<u>FIVE YEAR AVERAGE MONTHLY CHEMICAL USAGE (TONS)</u>											
January	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec
422	405	400	262	475	607	575	505	445	406	402	466

<u>2021 PROJECTED USAGE (TONS)</u>											
January	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec
353	339	335	219	398	510	483	423	373	340	337	390

2021 usage is estimated to be 4500 tons.

An SDS (Material) Safety Data Sheet) must accompany the bid.

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #7

LIQUID CARBON DIOXIDE (CO₂) SPECIFICATIONS

Carbon Dioxide shall be priced per ton, delivered in bulk, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

The Fargo Water Treatment Plant owns two storage tanks, one 52 ton and one 50 ton.

Deliveries of carbon dioxide to the Fargo Water Treatment Plant are allowed at any time on any day. The supplier will employ a delivery schedule to keep up with usage and maintain adequate supplies in the storage tanks. Tank level readings will be made available on request and or frequency desired by supplier.

Carbon dioxide shall conform to the American Water Works Specification Standard B510-18.

Consider the following five-year historical usage summary. Usage in 2021 is projected to be 20% less than 5 year average. Please plan deliveries accordingly.

<u>FIVE YEAR AVERAGE MONTHLY CHEMICAL USAGE (TONS)</u>											
January	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec
80	75	89	67	96	116	118	116	100	83	74	76

<u>2020 PROJECTED USAGE (TONS)</u>											
January	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec
64	60	71	54	77	94	94	94	80	66	60	61

2021 usage is estimated to be 875 tons.

An SDS (Material) Safety Data Sheet) must accompany the bid.

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #8

CHLORINE (CL₂) SPECIFICATIONS

Liquid chlorine shall be priced per ton, delivered in ton containers, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103 and the Fargo Wastewater Treatment Plant, 3400 North Broadway, Fargo, North Dakota, 58102.

Liquid chlorine shall conform to the American Water Works Specification Standard B301-18.

Consider the following five-year historical usage summary. Usage in 2021 is projected to be 8% higher than 5 year average. Please plan deliveries accordingly.

<u>FIVE YEAR AVERAGE MONTHLY CHEMICAL USAGE (TONS)</u>											
January	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec
8	8	8	8	11	14	16	16	13	11	9	8

<u>2021 PROJECTED USAGE (TONS)</u>											
January	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec
8	8	8	8	15	19	18	18	13	9	8	8

2021 usage is estimated to be 140 tons.

An SDS (Material) Safety Data Sheet) must accompany the bid.

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #9

LIQUID OXYGEN (O₂) SPECIFICATIONS

Liquid oxygen shall be priced per ton, delivered in liquid form in bulk storage trucks, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

The Fargo Water Treatment Plant owns two 9,000 gallon storage tanks.

Deliveries of liquid oxygen to the Fargo Water Treatment Plant are allowed at any time on any day. The supplier will employ a delivery schedule to keep up with usage and maintain adequate supplies in the storage tanks. Tank level readings will be made available on request and or frequency desired by supplier.

The liquid oxygen supplier shall have a production facility to support oxygen with a quality verification level of Grade D or better for Type II liquid oxygen as defined by the Compressed Gas Association, Specification CGA G-4.3, 2018 Edition 8.

Liquid Oxygen shall conform to the American Water Works Specification Standard B304-18.

The liquid oxygen supplier shall provide analytical test results certifying that the liquid oxygen being supplied meets the above specification with the bid. If the supplier changes source of liquid oxygen during the year, a new certification will be required.

Consider the following five-year historical usage summary. Usage in 2021 is projected to be 20% less than 5 year average. Please plan deliveries accordingly.

FIVE YEAR AVERAGE MONTHLY CHEMICAL USAGE (TONS)

January	February	March	April	May	June	July	August	September	October	November	December
45	53	55	65	78	101	117	100	80	66	51	64

2020 PROJECTED USAGE (TONS)

January	February	March	April	May	June	July	August	September	October	November	December
36	42	44	52	62	81	94	80	64	53	41	51

2021 usage is estimated to be 700 tons.

An SDS (Material) Safety Data Sheet) must accompany the bid.

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #10

LIQUID ALUMINUM CHLOROHYDRATE (ACH) SPECIFICATIONS

Aluminum chlorohydrate shall be priced per wet pound as product, delivered in liquid form in a bulk tank truck, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

The supplier's truck must be equipped to safely handle and unload bulk liquid aluminum chlorohydrate.

The Fargo Water Treatment Plant owns two 13,000 gallon bulk storage tanks. The storage tank will be filled from an exterior fill station through a 2" fill line with a quick disconnect type coupling.

The truck shall be equipped with a pump or air compressor to unload the tanker.

Liquid aluminum chlorohydrate shall conform to the American Water Works Specification Standard B408-18.

Liquid aluminum chlorohydrate shall have a basicity of 82-85% and shall not contain polymeric or inorganic additives that may interfere with the operation of ultrafiltration membrane and reverse osmosis membrane.

A (COA) Certificate of Analysis must accompany each delivery.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

2021 consumption is estimated to be 750 Tons.

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A maximum application dosage in potable water treatment must accompany the bid.

A (SDS) Safety Data Sheet must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #11

POLYPHOSPHATE SPECIFICATIONS

(Potable Water Stabilization)

Polyphosphate shall be priced per pound, delivered in 20,000 pound lots, packaged in 50 pound bags, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

The product bid shall be equal to Carus MP4020 or Shannon No-Cor type N2, and shall meet the following specifications:

1. Pulverized free flowing granular material
2. Na_2O to P_2O_5 ration of 2.1 to 1.0 with PO_4 content of 63%
3. Density of pulverized material of 64 pounds per cubic foot
4. PH of a 1% solution =10.6

As a function of phosphate bid, bidder shall provide 4 hours of on-site technical service per month in testing for phosphate feed, dosage requirements, and phosphate reversion rate. Bidder shall submit a written report of testing results within ten days.

2021 usage is estimated to be 100,000 pounds.

An SDS (Material) Safety Data Sheet) must accompany the bid.

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A maximum application dosage in potable water treatment must accompany the bid

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #12

LIQUID FERRIC SULFATE SOLUTION (60%) SPECIFICATIONS

Liquid Ferric Sulfate shall be priced per gallon of product, delivered in liquid form in a bulk tank truck, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103. The supplier's truck must be equipped to safely handle and unload bulk liquid ferric sulfate. The Fargo Water Treatment Plant owns two 4,500-gallon bulk storage tanks. The storage tanks will be filled from an exterior fill station through a 2" fill line with a quick disconnect type coupling. The truck shall be equipped with a pump or air compressor to unload the tanker.

Liquid ferric sulfate shall conform to the American National Standards Institute (ANSI)/National Sanitation Foundation (NSF) Standard 60 for Drinking Water Treatment Chemicals - Health Effects. It must also meet the American Water Works Association (AWWA)'s Specification B406-14 (Ferric Sulfate) or most recent standard and be compliant with the recommended maximum impurity content found in the water chemicals codex. Liquid ferric sulfate shall demonstrate no appreciable sediment after standing for 24 hours at ambient temperatures.

The supplied liquid ferric sulfate supplied shall meet the following chemical and physical properties and limits as listed below:

Ferric Sulfate Content:	(60%± 3%) ferric sulfate by weight
Water Soluble Iron (as Fe 3+):	12.1 ± 0.2%
Water Soluble Fe (2+):	<3.0%
Specific Gravity (25°C):	1.50-1.59
pH	< 2

A (COA) Certificate of Analysis must accompany each delivery.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

2021 consumption is estimated to be 100,000 gallons.

Documentation of ANSI/NSF Standard 60 certification and AWWA compliance must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A maximum application dosage in potable water treatment must accompany the bid.

A (SDS) Safety Data Sheet must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #13

SODA ASH (Na₂CO₃) SPECIFICATIONS

Soda ash shall be priced per ton, delivered in dry form in a bulk tank truck, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

The Fargo Water Treatment Plant owns one soda ash storage tank with a capacity of 270 tons. The bin will be filled from an exterior fill station with 4" quick disconnect type couplings.

Delivery trucks with pneumatic blowers are required to unload the chemical.

Soda ash shall conform to the American Water Works Specification Standard B201-18.

Consider the following five-year historical usage summary. Usage in 2021 is projected to be 20% less than 5 year average. Please plan deliveries accordingly.

<u>FIVE YEAR AVERAGE MONTHLY CHEMICAL USAGE (TONS)</u>											
January	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec
118	66	154	86	226	292	245	246	163	212	189	210

<u>2021 PROJECTED USAGE (TONS)</u>											
January	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec
94	55	123	69	181	234	196	197	131	170	152	168

2021 usage is estimated to be 1770 tons.

An SDS (Material) Safety Data Sheet) must accompany the bid.

Documentation of ANSI/NSF Standard 60 certification and maximum application dosage in potable water treatment must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #14

SODIUM BISULFITE, 38% SPECIFICATIONS

Sodium bisulfite, 38% shall be priced per wet pound as product, delivered in liquid form in 330 gallon totes, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

Sodium bisulfite, 38%, will be used to quench oxidant to prevent damage of reverse osmosis membranes and shall not contain impurities that may interfere the operation of reverse osmosis membranes.

A (COA) Certificate of Analysis must accompany each delivery.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

2021 usage is estimated to be 100,000 pounds

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A maximum application dosage in potable water treatment must accompany the bid.

A (SDS) Safety Data Sheet must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #15

SODIUM HYDROXIDE 50% SPECIFICATIONS

Sodium Hydroxide 50% shall be priced per wet pound as product, delivered in liquid form in a bulk tank truck, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

Sodium Hydroxide, 50%, will be used to adjust pH in Fargo Integrated Dual-membrane (Ultrafiltration membrane and reverse osmosis membrane) Water Treatment Plant.

The supplier's truck must be equipped to safely handle and unload bulk sodium hydroxide.

The Fargo Water Treatment Plant owns two 7,000 gallon bulk storage tanks. The storage tank will be filled from an exterior fill station through a 2" fill line with a quick disconnect type coupling.

The truck shall be equipped with a pump or air compressor to unload the tanker.

Sodium Hydroxide shall conform to the American Water Works Specification Standard B501-13.

A (COA) Certificate of Analysis must accompany each delivery.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

2021 usage is estimated to be 500 Tons.

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A maximum application dosage in potable water treatment must accompany the bid.

A (SDS) Safety Data Sheet must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #16

SODIUM HYPOCHLORITE, 12.5% SPECIFICATIONS

Sodium hypochlorite, 12.5% shall be priced per wet pound as product, delivered in liquid form in 330 gallon totes, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

Sodium hypochlorite, 12.5%, will be used in membrane cleaning-in-place (CIP) process for Ultrafiltration membranes and shall not contain impurities that may foul membranes.

Liquid sodium hypochlorite shall conform to the American Water Works Specification Standard B300-18.

A (COA) Certificate of Analysis must accompany each delivery.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

2021 usage is estimated to be 75,000 pounds

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A maximum application dosage in potable water treatment must accompany the bid.

A (SDS) Safety Data Sheet must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #17A

SULFURIC ACID, 40% SPECIFICATIONS

Sulfuric acid, 40% shall be priced per wet pound as product, delivered in liquid form in 55 gallon drums, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

Sulfuric acid, 40% will be used in Ultrafiltration Membrane cleaning-in-place (CIP) and shall not contain impurities that may foul membranes.

A (COA) Certificate of Analysis must accompany each delivery.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

2021 usage is estimated to be 12,000 pounds

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A (SDS) Safety Data Sheet must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #17B

SULFURIC ACID, 40% SPECIFICATIONS

Sulfuric acid, 40% shall be priced per wet pound as product, delivered in liquid form in 5 gallon plastic pails, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

Sulfuric acid, 40% will be used with online instrumentation at WTP facilities and shall not contain impurities that may foul or damage equipment.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

2021 usage is estimated to be 40 gallons

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A (SDS) Safety Data Sheet must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #18

SULFURIC ACID, 93% SPECIFICATIONS

Sulfuric acid, 93% shall be priced per wet pound as product, delivered in liquid form in a bulk tank truck, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

Sulfuric acid, 93% will be used to adjust raw water pH to facilitate coagulation process in Fargo Integrated Dual-membrane (Ultrafiltration membrane and reverse osmosis membrane) Water Treatment Plant.

The supplier's truck must be equipped to safely handle and unload bulk liquid sulfuric acid, 93%.

The Fargo Water Treatment Plant owns one 10,000 gallon bulk storage tank. The storage tank will be filled from an exterior fill station through a 2" fill line with a quick disconnect type coupling.

The truck shall be equipped with a pump or air compressor to unload the tanker.

A (COA) Certificate of Analysis must accompany each delivery.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

2021 usage is estimated to be 320 Tons.

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A maximum application dosage in potable water treatment must accompany the bid.

A (SDS) Safety Data Sheet must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #19

ANIONIC FLOCCULANT SPECIFICATIONS

Anionic flocculant shall be priced per pound, delivered in IBC 275 gallon (totes – six per order), f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

A (COA) Certificate of Analysis must accompany each delivery.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

To be eligible to bid, product will have to be proven through plant trials. The bid will be awarded based on price and evaluation of data obtained from plant trials. $\$/\text{pound (bid price)} \times \text{pounds of polymer per dry ton of sludge (actual plant data)} = \$/\text{dry ton of sludge}$

The following performance values will be used along with bid price to determine the bid winner:

Hawkins AH 9937	3.73
SNF Polydyne A-210 P	3.76

2021 usage is estimated to be 60,000 pounds

An SDS (Material) Safety Data Sheet) must accompany the bid.

Documentation of ANSI/NSF Standard 60 certification and maximum application dosage in potable water treatment must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #20

CATIONIC POLY (DIALLYL-DIMETHYL-AMMONIUM CHLORIDE) POLYMER (PolyDADMAC)

Poly DADMAC shall be priced per wet pound as product, delivered in liquid form in a bulk tank truck, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

The supplier's truck must be equipped to safely handle and unload bulk liquid PolyDADMAC.

The Fargo Water Treatment Plant owns one 8,500 gallon bulk storage tank. The storage tank will be filled from an exterior fill station through a 2" fill line with a quick disconnect type coupling.

The truck shall be equipped with a pump or air compressor to unload the tanker.

PolyDADMAC shall conform to the American Water Works Specification Standard B451-16.

PolyDADMAC shall have active polymer 20% plus or minus 1%.

NSF approved for use in potable water at dosages up to 50 mg/liter.

Bulk viscosity of 80 to 400 cps

Similar molecular weight to Kemira Superfloc C-587 or SNF Floquat FL 4420 PWG

A (COA) Certificate of Analysis must accompany each delivery.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

2021 usage is estimated to be 30 Tons.

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A maximum application dosage in potable water treatment must accompany the bid.

A (SDS) Safety Data Sheet must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #21

Anionic Polyacrylamide

Granular Anionic Polyacrylamide shall be priced per pound, packaged in 55 pound heavy mil plastic or plastic lined paper bags, delivered in 2,200 pound lots f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

The product bid shall be equivalent to AquaPure AF 3335 PHW or Neo Solutions NS 6550P. In order for product to be bid it must be demonstrated as equal through trials on lime /soda ash softening process with Red River as source water and evaluated by Fargo WTP Staff.

Granular Anionic Polyacrylamide shall conform to the American Water Works Specification Standard B453-19.

A (COA) Certificate of Analysis must accompany each delivery.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

2021 usage is estimated to be 8,800 pounds.

An SDS (Material) Safety Data Sheet) must accompany the bid.

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A maximum application dosage in potable water treatment must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #22

Acetic Acid 56% SPECIFICATIONS

Acetic acid, 56% shall be priced per wet pound as product, delivered in liquid form in 55 gallon drums, f.o.b. to the Fargo Water Treatment Plant, 435 14th Avenue South, Fargo, North Dakota, 58103.

Acetic acid, 56% will be used for acidifying and cleaning of chemical feed lines and piping at the WTP.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

2021 usage is estimated to be 3,600 pounds

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A (SDS) Safety Data Sheet must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Items #23-29

Effluent Reuse Facility Chemicals

The following chemicals are for use at the Effluent Reuse Facility (ERF) located at the Regional Water Reclamation Facility at 3400 North Broadway, Fargo, ND 58102.

#23 Azone 15/Sodium Hypochlorite (12%):

Shall be priced per gallon, and shall be delivered in four (4) totes every two weeks, and pumped into bulk container by the distributor.

#24 Pretreatment Plus Antiscalant:

Shall be priced per gallon and be delivered in six (6), 55 gallon drums per month, pumped into a tote at the ERF building by the distributor. King Lee Plus 100 is also required.

#25 Caustic Soda (30%):

Shall be priced per gallon. One (1) 330 gallon tote is required per month and must be pumped into bulk container at the ERF building by the distributor.

#26 Ferric Chloride (35%):

Shall be priced per pound of product. Six (6), 55 gallon drums are required to be delivered every month. Drums will be placed on scale by distributor.

#27 Ammonium Hydroxide (19%):

Shall be priced per pound of product. One (1) tote shall be delivered every four months and shall be pumped into bulk container by distributor.

#28 Sulfuric Acid (40%):

Shall be priced per pound of product. One (1) tote shall be delivered every six months and shall be pumped into bulk container by the distributor.

#29 Citric Acid (50%):

Shall be priced per pound of product. Four (4) 55 gallon drums shall be supplied every month and shall be pumped into tote by distributor.

All fuel surcharges must be included as part of the bid submitted.

Safety Data Sheets must accompany this bid.

The City Commission reserves the right to reject any or all bids and to waive any informality.

Items #30 & 31

ODOR CONTROL MEDIA SPECIFICATIONS

The media will be of two types, hydrogen sulfide removal media and broad spectrum removal media, and will serve to replace spent media located in scrubbers manufactured by Purafil.

Odor control media shall be priced per cubic foot of media, delivered in bulk, f.o.b. to the following locations:

1. Regional Water Reclamation Facility, 3400 North Broadway, Fargo, North Dakota, 58102.
2. Lift Station 61, 3598 40th Ave North, Fargo, ND 58102.
3. Lift Station 60, 3083 43 St South, Fargo ND 58103.
4. Lift Station 25, Intersection of 36th Street South and 32nd Ave South.
5. Lift Station 19, Intersection of 25th Street South and 17th Ave South.
6. Lift Station 1, 4th Street and 2nd Street S. (Island Park)
7. Lift Station 2, 3rd Street and 1st Avenue N. (Library)

Bid price will be based upon a minimum annual quantity of 250 cubic feet of hydrogen sulfide removal media and 50 cubic feet of broad spectrum removal media.

Hydrogen Sulfide Removal Media Parameters:

Moisture Content of 35% max.

Crush Strength 35-70%

Abrasion: 4.5% Max

Pellet Diameter: 1/16-1/4 inch

Bulk Density: 26 lb/ft³

H₂S Removal Capacity: 0.30 g/cc minimum

Process Temperature Range: -4 – 125 F

Humidity: 10 – 95 %RH

Broad Spectrum Gas Removing Media Parameters:

The broad spectrum gas removing media shall be an equal mixture (by volume) of sodium or potassium permanganate impregnated media and activated carbon media.

Spent media must be capable of being disposed of in a normal domestic landfill and must not qualify as a hazardous waste.

Moisture Content of 35% max.

Crush Strength of 35-70%

Abrasion: 4.5%

Pellet Diameter: 1/16 – 1/8 inch

Bulk Density: 50 lb/ft³

Permanganate Content: 12% Minimum.

Process Temperature Range: -4 – 125 F

Humidity: 10 – 95% RH

Upon delivery, the Owner will retain 16 oz samples of H₂S Removal Media in air-tight containers. The Owner will store the samples in the controlled environment of the Fargo Wastewater Lab. At the Owner's discretion, at any time throughout the year, the Owner may analyze the media for H₂S capacity in accordance with ASTM D6646. If the media fails to meet the specified H₂S capacity per this specification, the media manufacturer will supply a replacement media which meets the required H₂S capacity at no additional cost to the Owner.

Acceptable Media Manufacturers:

1. Purafil, Inc. of Doraville, Georgia, USA
2. Pure Air Filtration, Inc. of Atlanta, Georgia, USA

Product Delivery, Installation and Handling:

All packing slips and shipments must be inspected upon delivery to ensure shipments are complete and no damage has occurred during transportation. In the case of an incomplete shipment or damage has occurred the Manufacturer will be contacted by the Owner.

The Owner will install the media according to the Manufacturer's instructions.

The Owner will dispose of all spent media.

All fuel surcharges must be included in the bid submitted.

A Safety Data Sheet must accompany the bid.

The City Commission reserves the right to reject any and all bids and waive any informality.

Items #32

CALCIUM NITRATE SPECIFICATIONS

Calcium nitrate deliveries. Price based on per gallon of product deliveries.

Bulk Delivery

Chemical Injection Station at 25th Street and 30th AVE South Fargo, ND

Lift Station 60 at 3083 43rd Street South Fargo, ND

Tote Delivery

Lift Station 57 US Hwy 81 & 112 AVE S Oxbow, ND

Please provide two prices, one for bulk tanker deliveries and one for tote deliveries.

Calcium Nitrate product shall be:

Calcium Nitrate Tetrahydrate 68 %

All fuel surcharges must be included as part of the bid provided.

A Safety Data Sheet must accompany this bid.

The City Commission reserves the right to reject any or all bids and to waive any informality.

Item #33

SODIUM HYPOCHLORITE SPECIFICATIONS

Sodium Hypochlorite shall be priced per gallon of 12% solution, delivered in liquid form in a bulk tank truck, f.o.b. to the Regional Water Reclamation Facility at 3400 North Broadway, Fargo, ND 58102.

The supplier's truck must be equipped to safely handle and unload bulk liquid sodium hypochlorite.

Sodium Hypochlorite shall be delivered in 1,500 to 2,000 gallon loads into a storage tank through a 2" fill line with a quick disconnect type coupling.

The truck shall be equipped with a pump or air compressor to unload the tanker.

Liquid sodium hypochlorite shall conform to the American Water Works Specification Standard B300-18.

A (COA) Certificate of Analysis must accompany each delivery.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

All fuel surcharges must be included as part of the bid provided.

A Safety Data Sheet must accompany this bid.

The City Commission reserves the right to reject any or all bids and to waive any informality.

Item #34

HYDROGEN PEROXIDE, 34% SPECIFICATIONS

Hydrogen Peroxide, 34% shall be priced per gallon of product, delivered in liquid form in a bulk tank truck, f.o.b. to Lift Station 61, 3598 40th AVE North, Fargo, North Dakota, 58102.

The supplier's truck must be equipped to safely handle and unload bulk liquid hydrogen peroxide.

Lift Station 61 has a 6500 gallon chemical storage tank. The storage tank is located on the main level of the lift station. The storage tank will be filled through a 2" fill line with a quick disconnect type coupling.

A (COA) Certificate of Analysis must accompany each delivery.

A (SDS) Safety Data Sheet must accompany order if chemical has changed or there have been revisions to (SDS) since bid submittal.

2021 usage is estimated to be 6500 gal.

Documentation of ANSI/NSF Standard 60 certification must accompany the bid. A product will be considered as meeting these standards if so certified by an organization accredited by the American National Standards Institute to test and certify such products.

A (SDS) Safety Data Sheet must accompany the bid.

All fuel surcharges must be included as part of the bid submitted.

The City Commission reserves the right to reject any and all bids and waive any informality.

Item #35

CATIONIC FLOCCULANT SPECIFICATIONS

Cationic Flocculent shall be priced per wet pound, delivered in totes, f.o.b. to the Regional Water Reclamation Facility at 3400 North Broadway, Fargo, ND 58102.

The Flocculant bid shall be equal to that of Polydyne Clarifloc CE-1300. The flocculant bid will have to be proven equal as demonstrated during actual operation of the belt filter press before closing of bid date. There will be no cost charged to the City during testing of the alternate flocculant. The product being tested must meet or exceed the Polydyne CE-1300 performance and be shown to be equal to or more economical to use based on cost of quantity used to achieve satisfactory results.

Bid will be awarded based on the price and evaluation of data obtained from plant trials.

All fuel surcharges must be included as part of the bid submitted.

Safety Data Sheets must accompany this bid.

The City Commission reserves the right to reject any or all bids and to waive any informality.