



City of Barre, Vermont

" GRANITE CENTER OF THE WORLD "

WILLIAM AHEARN P.E.
ENGINEER & DIRECTOR OF
PUBLIC WORKS

6 NORTH MAIN ST SUITE 1
BARRE, VT 05641-4177
(802) 476-0250 TEL

MEMORANDIUM

To: All Vendors

From: William Ahearn P.E. City Engineer &
Director of Public Works

**Bids will be accepted until 10:00 A.M. Thursday,
May 27, 2021 at the Barre City Engineer's Office, City
Hall, 6 North Main Street, Suite 1, Barre, Vermont
05641 on the following:**

***"Annual Supplies"
Fiscal Year 2021-2022***

**ALL BID QUOTATIONS ARE TO BE PLACED IN
SEALED AND IN SEPARATE ENVELOPES AND
CLEARLY MARKED "Bid Item # and or Name of Product or
Chemical"**

Please note all Bids must have clearly printed Name, email address, day time phone # and 24 Hr. emergency # along with weekend emergency #. We required that you provide the SDS Sheets also. With Day Time Name & phone #, Emergency Name & phone # and a 24 Hr. Name and phone # along with weekend emergency #.

**The City reserves the right to reject any and all bids
and to accept the bid deemed to be the best interest of
the City of Barre.**

***CITY OF BARRE
BARRE, VERMONT 05641***

ANNUAL SUPPLIES

Sealed quotations will be received at the City Engineer's Office, City Hall, 6 North Main St. Suite 1 Barre, Vermont, 05641 until 10:00 A. M., on Thursday, May 27, 2021 on the following:

All quotations will be in effect from July 1, 2021 to June 30, 2022.

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- 15 SODIUM BISULFITE
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18 POTASSIUM PERMANGANATE

19-20 PCH-180 POLY ALUMINUM CHLORIDE

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Specifications may be obtained at the City Engineer's Office, Suite 1, City Hall, 6 North Main St., Barre, Vermont 05641.

THE CITY RESERVES THE RIGHT TO REJECT ANY AND ALL QUOTATIONS OR TO ACCEPT THE QUOTATION THAT IS IN THE BEST INTEREST OF THE CITY.

DELIVERIES TO THE WATER FILTRATION PLANT IN THE TOWN OF ORANGE MAY BE SUBJECT TO OVERWEIGHT PERMITS. VENDORS SHOULD CONTACT THE TOWN OF ORANGE FOR ANY REQUIRED PERMITS. (ORANGE TOWN CLERK'S OFFICE (802) 479-2673)

THE WATER FILTRATION PLANT AT 162 RESERVOIR RD, ORANGE, VT AND WASTEWATER TREATMENT PLANT, 69 TREATMENT PLANT DRIVE, BARRE, VT DELIVERIES MUST BE SCHEDULED BETWEEN THE HOURS OF 7:00 A.M. AND 2:30 P.M. MONDAY THRU FRIDAY. ALL CHEMICAL QUOTES ARE AS DELIVERED PER GALLON OR LB. AS SPECIFIED BY ITEM.

INSTRUCTIONS

**ALL QUOTATIONS ARE TO BE PLACED IN SEALED AND IN
SEPARATE ENVELOPES AND CLEARLY MARKED (i.e. "QUOTATION –
GASOLINE (UNLEADED)" Bid Item # OR (i.e. "QUOTATION –
RIVERCLEAR 101")**

**PLEASE PROVIDE SAFETY DATA SHEET ALONG WITH
DAY TIME, 24 HR. & EMERGENCY CONTACT PHONE
NUMBERS. NAME OF CONTACT PERSON OR PERSONS.**

**Please note this must be legible and on your bid sheet IF YOU
BELONG TO CHEMTREC PLEASE NOTE ON YOUR BID.**

AND ADDRESSED TO:

**CITY OF BARRE
Barre City Engineer's Office
"Annual Supplies"
6 North Main St. Suite 1
Barre, Vermont 05641**

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

GASOLINE (UNLEADED) BID FORM BID # 4

Provide annual supply of approximately 35,000 gallons to 6 Burnham St. from July 1, 2021 to June 30, 2022. The gasoline shall conform to what is usually known and distributed as "unleaded" gasoline and shall have an octane value no less than that set by the U.S. Government for this grade. Delivered by request during the period from July 1, 2021 to June 30, 2022. Tank size is 10,000 gallons. City reserves the right to place a minimum order of 5,000 gallons on a delivery.

Bids shall be submitted as follows:

1) Present price per gallon \$ _____
Wholesale rack price.

DATE OF RACK PRICE QUOTE _____

2) Set profit margin per gallon over and above \$ _____
The wholesale rack prices.
(To include any transportation costs.)

3) Any applicable taxes. \$ _____

4) Total Net Cost 1, 2 \$ _____

This profit margin to be a fixed amount throughout the bid period of July 1, 2020 to June 30, 2021.

It is a condition of this bid that the fuel oil dealer will submit to the City of Barre copies of the new wholesale rack prices as they occur. The new price per gallon will be the summation of the wholesale rack price at the time of delivery and the set profit margin per gallon plus any applicable taxes.

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ email _____

Phone # _____, 24 Hr. emergency # _____

Date: _____

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

DIESEL FUEL BID FORM — BID # 5

Annual supply of approximately 28,000 gallons of diesel fuel from July 1, 2021 to June 30, 2022, to be delivered to 6 Burnham St. Annual supply of approximately 500 gallons to the Wastewater Treatment Plant for an electrical generator. Delivered upon request during the period from July 1, 2020 to June 30, 2021. Tank size is 8,000 gallons at the Public Works Dept. and 500 gallons for the generator at the WWTP. City reserves the right to place a minimum order of 5,000 gallons on a delivery.

Bids shall be submitted as follows:

- | | |
|---|----------|
| 1) Present price per gallon | \$ _____ |
| Wholesale rack price. | |
| DATE OF RACK PRICE QUOTE | _____ |
| 2) Set profit margin per gallon over and above the wholesale rack price | \$ _____ |
| (To include any transportation costs.) | |
| 3) Any applicable taxes. | \$ _____ |
| 4) Total Net Cost | \$ _____ |

This profit margin to be a fixed amount throughout the bid period of July 1, 2020 to June 30, 2021.

It is a condition of this bid that the fuel oil dealer will submit to the City of Barre, copies of the new wholesale rack prices as they occur. The new price per gallon will be the summation of the wholesale rack price, at the time of delivery and the set profit margin per gallon plus any applicable taxes.

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ email _____

Phone # _____, 24 Hr. emergency # _____

Date: _____

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

SCREENED SAND BID FORM — BID # 6

Approximately 1,000 CUBIC YARDS of screened sand, from July 1, 2021 to June 30, 2022.

BIDS SHALL BE SUBMITTED IN CUBIC YARDS ONLY

ALT. 1 -City to pick up material from your site.

Screened Sand \$ _____ /cu. yd.

ALT. 2 -Supplier to deliver sand to City Garage.

Screened Sand \$ _____ /cu. yd.

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ email _____

Phone # _____, 24 Hr. emergency # _____

Date: _____

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

RIVERCLEAR 101 or SOUTHERN WATER - EC-461 BID FORM BID # 7

(One Bulk delivery –up to 4,000 gals. - maximum)

From July 1, 2021 – June 30, 2022

Water Filtration Plant, Reservoir Rd., Orange, VT.

Sp. Gr. (70° F):	1.17
Fl. Pt. (PMCC):	Not detected
Freezing Point:	<20° F
Viscosity @ 70°F:	350 cp
Density:	9.8 lb. /gal
Appearance:	yellow liquid

Bid on price per gallon only, delivered.

Potable water treatment chemical must be certified by NSF.

Alternate chemical screening could take as long as one year due to seasonal water quality changes.

Bid Price: _____/gal.

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ **email** _____

Phone # _____, **24 Hr. emergency #** _____

Date: _____

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

25% SODIUM HYDROXIDE BID FORM BID # 8

(Caustic Soda NaOH)
(Approx. 9,000 gallons)
From July 1, 2021 – June 30, 2022

Water Filtration Plant, Reservoir Rd., Orange, VT (2,500 gal. /delivery)

Liquid sodium hydroxide shall be in conformance with AWWA specification B-501-80 for a liquid solution of 25 percent by mass. The density of the solution shall be 1.213 with a dry weight of 2.53 lbs. NaOH per gallon for 60° F. The freezing point shall be a maximum of -25° C. Maximum impurities shall be as limited by the National Academy of Science, Washington, D.C. (202-393-8100) in their Water Chemical Codex. The chemical supplier must demonstrate the sodium hydroxide is currently used at least in three other potable water treatment facilities. Sodium Hydroxide shall meet AWWA B501 latest revision.

Bid on price per gallon only, delivered.

Bid Price _____/gal.

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ **email** _____

Phone # _____, **24 Hr. emergency #** _____

Date: _____

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

AMERICAN CYANAMID MAGNIFLOC 985N- NON-IONIC BID FORM BID #9

(50-55lb- bags)

Supply 1.5-ton delivery

From July 1, 2021 – June 30, 2022

Water Filtration Plant, Reservoir Rd., Orange, VT.

pH of 0.5% solution @ 70° F:	5.5 - 7.
Bulk density:	42-48 lb/ft ³
Form:	White, granular powder
Viscosity cps: <u>25° C</u>	<u>% Solution</u>
	10 0.1
	30 0.25
	100 0.50
	450 1.0

Bid on price per pound only, delivered.

Bid Price _____/lb.

(If equal or equivalent, the vendor will be required to supply one bag for trial use at no cost to the City.)

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ **email** _____

Phone # _____, **24 Hr. emergency #** _____

Date: _____

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

HYDROFLUOROSILICIC ACID BID FORM – BID # 10



(Two deliveries 2,000 gal. - maximum)
From July 1, 2021 – June 30, 2022

Water Filtration Plant, Reservoir Rd., Orange, VT

Hydrofluorosilicic acid shall be in conformance with AWWA B703-89. Hydrofluorosilicic acid shall be 25% by solution.

Typical analysis shall be:

Specific gravity at 60° F:	1.224
Density at 60° F:	10.2 lbs/gal.
Heavy metals as Pb:	<200 ppm
Boiling Point:	222° F
pH 1% Solution:	1.2
Form:	Liquid, colorless. Pungent odor

Maximum impurities shall be as limited by the National Academy of Science, Washington, D.C. (202-393-8100) in their Water Chemical Codex. The chemical supplier must demonstrate the hydrofluorosilicic acid is currently used at least in three other potable water treatment facilities.

Bid on-price per gallon only delivered.

Bid Price: _____ /gal.

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ email _____

Phone # _____, 24 Hr. emergency # _____

Date: _____

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

ZINC ORTHOPHOSPHATE – CARUS 3300 OR
SHANNON CHEMICAL SLI-333
CORROSION CONTROL INHIBITOR FOR POTABLE WATER
BID FORM BID # 11

Zinc-Orthophosphate – NOTE: Sulfate Based

From July 1, 2021 – June 30, 2022

Water Filtration Plant, Reservoir Rd., Orange, VT

One 4,200/gal. Delivery

	<u>V-986</u>
Specific Gravity	1.32
Density (lbs/gal)	11.0
pH	<1.0
Freezing Point (°C/°F)	-27°/-17°
PO ₄ : Zn Ratio	11:1
%PO ₄ /%Zn	33/3

Bid per gallon only, delivered.

Bid Price: _____/gal.

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ email _____

Phone # _____, 24 Hr. emergency # _____

Date: _____

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

POWDERED ACTIVATED CARBON BID FORM BID # 12

One delivery of up to 30,000 lbs.
From July 1, 2021 – June 30, 2022

Water Filtration Plant, Reservoir Rd., Orange, VT

Iodine No: 800 min.

Moisture (as packed): <4%

Powdered activated carbon shall meet min. requirements of AWWA B-600-90 unless otherwise noted below.

Solubility:	insoluble in water and organic solvents
pH:	not applicable
Sp. Gr.:	250 - 600 g/L
Appearance and Odor:	black powder without taste or odor.
Maximum ash content:	8%
Tannin Value:	350
Modified Phenol Value:	28 MPV
Apparent density:	0.5 gms/ml
Particle size distribution	through 100 mesh (%) min. 99 through 200 mesh (%) min. 95 through 325 mesh (%) min. 90

Bid per pound only, delivered.

Bid Price: _____ lbs.

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ email _____

Phone # _____, 24 Hr. emergency # _____

Date: _____

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

LIQUID CALCIUM CHLORIDE BID FORM BID # 13
(32% Solution)

City Garage, Burnham St., Barre

Approximately 2,500 gallons of liquid calcium chloride, delivered to our bulk tank (3,000 gal. capacity). To be delivered as needed from July 1, 2021 to June 30, 2022. (Material to be used for snow/ice and dust control).

Bid price per gallon only, delivered.

Bid Price: _____/gal.

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ **email** _____

Phone # _____, **24 Hr. emergency #** _____

Date: _____

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

SODIUM HYPOCHLORITE BID FORM — BID 14

(Sodium Hypochlorite 12.5%)

(Inert Ingredients 87.5%)

Must conform to AWWA B300 Standards

From July 1, 2021 – June 30, 2022

Location	Annual est.	Delivery Size
Barre City Swimming Pool, Parkside Terrace, Barre	2,400 gallons	(800 max. /delivery)
Water Treatment Facility, Reservoir Rd., Orange, VT	10,000 gallons	(4,000 max./delivery)
Wastewater Treatment Plant, Treatment Plant Dr., Barre	30,000 gallons	(5,000 max./delivery)

Split delivery with either WWTP/WTF during summer for the swimming pool.

SODIUM HYPOCHLORITE

Sodium Hypochlorite shall be in conformance with AWWA Specification B300-87 for a solution with 15.0 per cent minimum available chlorine (by mass). The typical analysis shall be:

Specific Gravity or Density	= 1.14
Solubility	= 100 percent
pH	=11-112
Appearance	= Light yellowish green liquid
Maximum iron concentration	= 2 mg/L
Maximum copper concentration	= 1 mg/L

Maximum impurities shall be as limited by the National Academy of Science in Washington, D.C. (202-334-2210) in their Water Chemical Codex. The chemical supplier must demonstrate the sodium hypochlorite is currently used at least in three other potable water treatment facilities.

Bid price per gallon only, delivered.

Bid Price: _____/gal.

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ email _____

Phone # _____, 24 Hr. emergency # _____

Date: _____

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

SODIUM BISULFITE BID FORM – BID # 15

Approximately 7,000 gallons - 38%.
From July 1, 2021 – June 30, 2022

Wastewater Treatment Plant, Treatment Plant Dr., Barre

(Max. 800 gal. /delivery)

SODIUM BISULFITE NaHSO₃

Liquid sodium bisulfite shall be in conformance with AWWA specifications for a 38 percent (by mass) solution. Typical analysis shall be:

Sodium Bisulfite Content	38% by weight
Specific Gravity	1.26 to 1.37 @25°C
pH	3 to 4
Appearance	Clear pale yellow liquid
Odor	Sulfur dioxide

Maximum impurities shall be as limited by a National Academy of Science in Washington, D.C. (202-334-2210) in their Water Chemical Codex. The chemical supplier must demonstrate that sodium bisulfite is currently used at least in three other potable water treatment facilities.

Bid price per gallon only, delivered.

Bid Price: _____/gal.

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ email _____

Phone # _____, 24 Hr. emergency # _____

Date: _____

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

CATIONIC POLYMER BID FORM – BID # 16

From July 1, 2021– June 30, 2022

Wastewater Treatment Plant, Treatment Plant Dr., Barre

Supply 6,000 lbs. - (50-55 lb. bags – one delivery).
Polydyne C3281

(If equal or equivalent, the vendor will be required to supply one bag for trial use at no cost to the City.)

Bid price per pound only, delivered.

Bid Price: _____/lb.

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ **email** _____

Phone # _____, **24 Hr. emergency #** _____

Date: _____

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

LIQUID SODIUM ALUMINATE BID FORM BID # 17

From July 1, 2021– June 30, 2022

Wastewater Treatment Plant, Treatment Plant Dr., Barre

Maximum delivery 5,000 gal. /delivery.

Anticipated usage 45,000 gals. /yr.

Delivery Truck must have own compressor

TYPICAL ANALYSIS

PHYSICAL PROPERTIES

$\text{Na}_2\text{Al}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$ 38. % +- 0.5 %
 Al_2O_3 19.6%-19.8%
 $\text{Na}_2\text{O}/\text{Al}_2\text{O}_3$ 1.7/1.0 +- 0.1

Weight 12.4-12.8 lbs. /gal.
Specific Gravity 1.49 – 1.53 @ 60°F
Appearance – Light Amber Liquid

The above tables give typical properties.

Bid price per gallon only, delivered.

Bid Price: _____/gal.

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ email _____

Phone # _____, 24 Hr. emergency # _____

Date: _____

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

POTASSIUM PERMANGANATE BID FORM BID # 18

Approximately 14,000 lbs. yearly, delivered in 55 lb. drums only
7,000 lbs. /maximum delivery
From July 1, 2021 – June 30, 2022

Water Filtration Plant, Reservoir Rd., Orange, VT

Total KMnO	- 97%
	- 20 % retained on #425 sieve
	- 7% retained on #75 sieve
Formula Weight	- 158.0
Form	- <u>GRANULAR CRYSTALLINE (ONLY)</u>
	- <u>DOMESTIC ONLY</u>

Non Domestic Manufactured Permanganate must supply (2) Drums at No Charge for that.

Maximum impurities shall be as limited by the National Academy of Science in Washington, D.C. (202-393-8100) in their Water Chemical Codex. The chemical supplier must demonstrate that KMnO is currently used at least in three other potable water treatment facilities. The potassium permanganate shall be in strict conformance with AWWA Standard B603-88.

Bid price per pound only, delivered.

Domestic Bid Price: _____/lb.

Non Domestic Bid Price: _____/lb.

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ **email** _____

Phone # _____, **24 Hr. emergency #** _____

Date: _____

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

PCH-180 POLY ALUMINUM CHLORIDE BID FORM BID #19

Approx. 36,000 gal.
From July 1, 2021 – June 30, 2022

Water Filtration Plant, Reservoir Rd., Orange, VT

Product:

PC-H180 Poly Aluminum Chloride as manufactured by Holland Company or equivalent.

Compliance:

Product must meet or exceed the current American Water Works standard for Poly Aluminum Chloride. Product must also be certified under ANSI/NSF standard 60, Drinking Water Treatment Chemicals. The manufacturer and all intermediate vendors, if any, taking custody of the product must have ANSI/NSF Standard 60 certification for the product from the National Sanitation Foundation (NSF). Without proof of such current certification accompanying the bid proposal the proposal shall be considered unresponsive.

Manufacture & Physical Properties:

The product shall be manufactured to meet the following specifications:

- % AL₂O₃: 10.5 – 10.7 (minimum 10.5%)
- % Basicity: 69 - 72 +/- 5
- Specific Gravity: 1.26 – 1.27

Estimated Purchase Quantity:

It is estimated that the quantity of product required for the 12-month contract period would be 36,000 gallons. Typical order and delivery quantities will be 3,000 gallons. All deliveries must be in dedicated tank wagons used exclusively for the shipment of Poly Aluminum Chloride. Deliveries shall be made within 24 hours of telephone order by the city.

CONTRACT PERIOD:

The bid price shall be firm for a one-year period beginning July 1, 2021- June 30, 2022. The contract shall be extended for an additional one-year period subject to mutual agreement of the city and supplier.

PCH-180 POLY ALUMINUM CHLORIDE BID FORM BID #19

Approx. 36,000 gal.
From July 1, 2021 – June 30, 2022

PCH-180 POLYALUMINUM CHLORIDE

Bid price in gallons only, delivered.

Bid Price: _____ gallons

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ email _____

Phone # _____, 24 Hr. emergency # _____

Date: _____

CITY OF BARRE
6 No. Main Street, Suite 1
Barre, VT 05641

SODIUM PERMANGANATE SOLUTION 20 % BID FORM BID #20

From July 1, 2021 – June 30, 2022

Water Filtration Plant, Reservoir Rd., Orange, VT

Product:

Sodium Permanganate Solution 20%
CAS Number 10101-50-5
SDS Number/Grade 0072

Composition Component

%	19.5-21.5
UN#	3214

Physical and Chemical Properties

Density	9.7#/gallon +/- 0.1
Specific Gravity	1.16 +/- 0.03
Solubility	Complete
pH	5.0-8.0
Percent Volatile	80%

is odorless, dark purple liquid

Cont.

SODIUM PERMANGANATE SOLUTION 20 % BID FORM BID #20

Estimated Purchase Quantity:

Approximately 2,200 gallons per year
1,700 Gallons /Maximum delivery
Average Order Size 1350-1400 Gallons per order)
Estimated Order Frequency

Bid price in gallons only, delivered.

Bid Price: _____gallons

FIRM: _____

Duly Authorized Agent Signature & Print Name Legible

Address _____ email _____

Phone # _____ 24 Hr. emergency # _____

Date: _____