

NORTHEAST/MERRIMACK VALLEY CHEMICAL CONSORTIUM				
FISCAL YEAR 2024-25				
OFFICIAL BID FORM				
DATE:	March 19th, 2024			
VENDOR:	Arq Purification, LLC			
NOTE:	BID PRICES MUST BE PER UNIT SPECIFIED ON THIS BID FORM			
ITEM NO.	CHEMICAL	UNIT TYPE	UNIT BID	PER
1	ALUMINUM CHLOROHYDRATE (ACH)	15-GAL. PAILS		GAL.
2	ALUMINUM CHLOROHYDRATE (ACH)	1,000-GAL. BULK		GAL.
3	ALUMINUM SULFATE - 50% SOLUTION Unrefined Bauxite Ore & Sulfuric Acid Preparation NSF 60/ANSI	BULK (500 – 5,000 GAL. deliveries)		GALLON
4	ALUMINUM SULFATE - 50% SOLUTION Other Prep Method Alternative Bid NSF 60/ANSI	BULK (500 – 5,000 GAL. deliveries)		GALLON
5	AMMONIA GAS	150-LBS. CYLINDER		LB.
6	AMMONIUM SULFATE	50-LBS. BAGS		DRY LB.
7	AMMONIUM SULFATE (40% SOLUTION)	500 –1,000 GAL. deliveries		GAL.
8	ANTHRACITE	60+ LBS. BAGS		CU.FT.
9	AQUEOUS AMMONIA MUST BE 26° BAUMÉ (29%)	1,000-GAL. deliveries		GAL.
10	CALCIQUEST ORTHO (PHOSPHORIC ACID)	30-GAL. DRUM		GAL.

11	CALCIQUEST ORTHO (PHOSPHORIC ACID)	15-GAL. DRUM		GAL.
12	CALCIUM CHLORIDE	50-LBS. BAGS		DRY LB.
13	CALCIUM CHLORIDE	SUPERSACK		DRY LB.
14	CALCIUM HYPOCHLORITE	PALLET/50 – 50 LBS. BAGS		LBS
15	CALCIUM HYPOCHLORITE	LESS THAN PALLET - 50 LBS BAGS		LBS
16	CALCIUM HYPOCHLORITE (Accu-Tab Blue SI by Fillion Associates)	55-LBS. PAILS		LBS
17	CALCIUM HYPOCHLORITE (Accu-Tab SI by Axiall LLC)	55-LBS. PAILS		LBS.
18	CALCIUM NITRATE	Per ton delivery (40/50 LBS. bags)		DRY LB.
19	CARBON DIOXIDE	BULK		LB.
20	CARBON POWDERED	BULK	\$3,100.00 * ✓	TON
21	CARBON POWDERED	SUPERSACK	\$1.30/lbs ✓	DRY LB.
22	CAUSTIC SODA - 25% SOLUTION	SMALL BULK 500 – 1,000 GAL. deliveries		WET LB.
23	CAUSTIC SODA - 25% SOLUTION	LARGE BULK 1,001 – 5,000 GAL. deliveries		WET LB.
24	CAUSTIC SODA - 25% SOLUTION	55-GAL. DRUM		WET LB.
25	CAUSTIC SODA - 25 % SOLUTION	275-GAL. TOTES		WET LB.
26	CAUSTIC SODA- 50% SOLUTION	SMALL BULK 500 – 1,500 GAL. deliveries		WET LB.
27	CAUSTIC SODA – 50% SOLUTION	LARGE BULK 1,501 – 6,000 GAL. deliveries		WT LB.

* Arq Purification, LLC takes exception to the bituminous specification, please see our cover letter for more information

28	CHLORINE- DRY (HTH)	50-LBS. PAILS		DRY LB.
29	CHLORINE	1 TON CYLINDER		LB.
30	CHLORINE	150-LBS. CYLINDER		LB.
31	CITRIC ACID 50%	250-GAL. TOTES		WET LB.
32	CITRIC ACID 50%	55-GAL. DRUM		WET LB.
33	CITRIC ACID 50% POWDER	50-LBS. BAGS/PALLET		DRY LB.
34	COPPER SULFATE FINE # 30	50-LBS. BAGS		DRY LB.
35	COPPER SULFATE - LARGE	50-LBS. BAGS		DRY LB.
36	FERRIC CHLORIDE - U.S. ONLY 32%-38%	BULK		DRY LB.
37	FERRIC CHLORIDE - FOREIGN: 32%-38% (Alternative Bid)	BULK		DRY.LB.
NEW ITEM -38	GRANULAR ACTIVATED CARBON	BULK		DRY. LB.
NEW ITEM -39	GRANULAR ACTIVATED CARBON- REGENERATED	BULK		DRY. LB.
40	HYDROFLUOSILICIC ACID- 24%	BULK		WET LB.
41	HYDROFLUOSILICIC ACID- 24%	55-GAL. DRUM		WET LB.
42	HYDROFLUOSILICIC ACID- 24%	270-GAL. TOTES		WET LB.
43	LIME (HYDRATED)	50-LBS. BAGS 2-ton min.		DRY LB.
44	LIME SLURRY	BULK		PER TON
45	LIQUID OXYGEN	BULK (<15 PPM THC)		GAL.
46	LIQUID OXYGEN	BULK (<40 PPM THC)		GAL.

47	LIQUID POLYMER	275-GAL. TOTES		GAL.
48	LIQUID POLYPHOSPHATE (CARUS 8500 OR EQUAL)	BULK		WET LB.
49	MAGNESIUM HYDROXIDE	275-GAL. TOTES		GAL.
50	MANGANESE GREENSAND	BULK		CU FT.
51	MANGANESE GREENSAND PLUS (alternate bid)	BULK		CU FT.
52	METHANOL (100%)	55-GAL. DRUM		GAL.
53	MURIATIC ACID-20° BAUMÉ	BULK (1,000 – 3,000) GAL. delivered		GAL.
54	MURIATIC ACID-20° BAUMÉ INHIBITED - NSF Certified	55-GAL. DRUM		GAL.
55	MURIATIC ACID- 20° BAUMÉ	520-LBS. DRUM		LB.
56	MURIATIC ACID- 20° BAUMÉ	4, 1-GAL. jugs per box		GAL
57	MURIATIC ACID - 15%	TOTE BULK (300-350 GAL.)		GAL.
58	MURIATIC ACID – 20%	15-GAL. CARBOY		GAL.
59	MURIATIC ACID- 20° BAUMÉ	PUMPED TOTE (300-350 GAL.)		GAL.
60	POLY/ORTHO PHOSPHATE (CARUS 8650 OR EQUAL)	50-LBS. PAILS		LB.
61	ORTHOPHOSPHATE (CARUS 4500)	30-GAL. DRUM		GAL.
62	ORTHO-POLYPHOSPHATE (AQUAMAG OR EQUAL)	BULK (300-500 GAL.)		LB.
63	ORTHO-POLYPHOSPHATE (50%-50% Blend)	30-GAL. DRUM		LB.
64	ORTHO-POLYPHOSPHATE (50%-50% Blend) (Aquamag or equal)	55-GAL. DRUM		LB.
65	ORTHO-POLYPHOSPHATE (30%-70% BLEND)	30-GAL. DRUM		LB.

66	ORTHO-PHOSPHATE (10%-90% ORTHO/POLY BLEND)	55-GAL. DRUM		LB.
67	POLYPHOSPHATE (STERLING CP-33)	340-LBS. DRUM		LB.
68	PHOSPHATE (LIQUID) (SHANNON SLI 5225 OR CARUS 8100)	30-GAL. DRUM		GAL.
69	POLYMER (MANNICH) SNF POLYDYNE CLARIFLOC C-321	BULK		LB.
70	POLYMER (ANIONIC) SNF POLYDYNE NE-1920	275-GAL. TOTES		GAL.
71	POLYMER (CATIONIC) SNF POLYDYNE NE-1921	275 GAL. TOTES		GAL.
72	POYMER (CATIONIC) SNF POYDYNE NE-1922	275-GAL. TOTES		GAL.
73	POLYMER SNF POLYDYNE CLARIFLOC C6287	55-GAL. DRUM		GAL
74	POLYMER SNF NE-1922	275-GAL. TOTES		GAL
75	POLYMER SNF POLYDYNE CLARIFLOC GAC C6287	55- GAL.		GAL.
76	LIQUID POLYMER BASF ZETEG 8848FS OR PRAESTOL K290 FLY	275-GAL. TOTES		GAL
77	PHOSPHORIC ACID 75% SOLUTION	15-GAL. DRUM		WET LB.
78	POLYALUMINUM CHLORIDE (HOLLAND PCH 180 or EQUAL)	BULK		GAL
79	POLYALUMINUM CHLORIDE (HOLLAND PCH 180 or EQUAL)	275-GAL . TOTES		GAL
80	POLYALUMINUM CHLORIDE (HOLLAND EPIC 525 or EQUAL)	BULK		GAL.
81	POLYALUMINUM CHLORIDE (HOLLAND PCH 182 OR EQUAL)	BULK		GAL.
82	POTASSIUM HYDROXIDE- 45%	SMALL BULK 400 –1,000 GAL. Deliveries		WET LB.

83	POTASSIUM HYDROXIDE – 45%	LARGE BULK 1,001 – 5,000 GAL. Deliveries		WET LB
84	POTASSIUM HYDROXIDE - 45%	BULK 800 – 1,500 GAL.- shorter wheelbase delivery		WET LB
85	POTASSIUM HYDROXIDE- 45%	TOTES		WET LB.
86	POTASSIUM HYDROXIDE- 45%	55-GAL. DRUM		WET LB.
87	POTASSIUM HYDROXIDE – 45%	15-GAL. PAILS		WET LB.
88	POTASSIUM PERMANGANATE (U.S. ONLY)	55-LBS. DRUM		LB.
89	POTASSIUM PERMANGANATE (U.S. ONLY)	330-LBS. DRUM		LB.
90	POTASSIUM PERMANGANATE (FOREIGN- Alternative Bid)	55-LBS. DRUM		LB.
91	POTASSIUM PERMANGANATE (FOREIGN - Alternative Bid)	330-LBS. DRUM		LB.
92	SODIUM ALUMINATE- 38% (AWWA B405 – LATEST)	BULK		WET LB.
93	SODIUM BICARBONATE (AWWA/NSF 60)	BULK		DRY LB.
94	SODIUM BICARBONATE (AWWA/NSF 60)	50-LBS. BAG Full Truckload Release		DRY LB.
95	SODIUM BICARBONATE (WASTEWATER)	50-LBS. BAG Full Truckload Release		DRY LB.
96	SODIUM BICARBONATE (WASTEWATER)	50-LBS. BAG Per Pallet		DRY LB.
97	SODIUM BISULFITE- 38% SOLUTION	BULK 1,000 GAL.+		WET LB.
98	SODIUM BISULFITE- 38% SOLUTION	MINI-BULK ≤ 800 GAL.		WET LB.
99	SODIUM BISULFITE- 38% SOLUTION	55-GAL. DRUM		WET LB.

100	SODIUM METABISULFITE (GRANULAR)	50-LBS. BAGS 2 pallet delivery.		DRY LB.
101	SODIUM CARBONATE SODA ASH- DENSE	50-LBS. BAGS		DRY LB.
102	SODIUM CARBONATE SODA ASH -DENSE	SUPER SACKS		DRY LB.
103	SODIUM CARBONATE SODA ASH- DENSE	BULK		DRY LB.
104	SODIUM CHLORIDE	50 -LBS. BAGS		DRY LB.
105	SODIUM CHLORITE – 25% SOLUTION – U.S. ONLY	BULK		WET LB.
106	SODIUM CHLORITE- 25% SOLUTION – U.S. ONLY	55-GAL. DRUM		WET LB.
107	SODIUM CHLORITE – 25% FOREIGN (alternate bid)	BULK		WET LB.
108	SODIUM CHLORITE- 25% FOREIGN (alternate bid)	55-GAL. DRUM		WET LB.
109	SODIUM CHLORITE- 25% SOLUTIONS-non AWWA for Wastewater Use Only	BULK		WET LB.
110	SODIUM CHLORITE- 25% SOLUTIONS-non AWWA for Wastewater Use Only	55-GAL. DRUM		WET LB.
111	SODIUM CHLORITE – (SAFE-T-CHLOR SOLID)	55-GAL. DRUM		DRY LB.
112	SODIUM FLUORIDE U.S. ONLY	LESS THAN FULL 40 BAG PALLET OF 50- LBS. BAGS		DRY LB.
113	SODIUM FLUORIDE U.S ONLY	FULL 40 BAG PALLET OF 50- LBS. BAGS		DRY LB.
114	SODIUM FLUORIDE FOREIGN (Alternative Bid)	LESS THAN FULL 40 BAG PALLET OF 50- LBS. BAGS		DRY LB.
115	SODIUM FLUORIDE FOREIGN (Alternative Bid)	FULL 40 BAG PALLET OF 50- LBS. BAGS		DRY LB.

116	SODIUM HEXAMETAPHOSPHATE	50-LBS. BAGS		DRY LB.
117	Sodium Hexametaphosphate PRISTINE SK-7641	55-GAL. DRUM		WET LB.
118	SODIUM HYPOCHLORITE-5%	250-GAL. TOTES		WET LB.
119	SODIUM HYPOCHLORITE- 12.5%	5-GAL. CARBOYS		WET LB.
120	SODIUM HYPOCHLORITE- 12.5%	300-2,000 GAL. BULK		WET LB.
121	SODIUM HYPOCHLORITE – 15%	SMALL BULK 400 – 1,000 GAL. deliveries		WET LB.
122	SODIUM HYPOCHLORITE – 15%	LARGE BULK 1,001 – 7,000 GAL. deliveries		WET LB.
123	SODIUM HYPOCHLORITE- 15% Certified Refrigerated Storage and Delivery (Alternative Bid)	BULK (400-5,000 GAL. deliveries)		WET LB.
124	SODIUM HYPOCHLORITE- 15%	55-GAL. DRUMS		WET LB.
125	SODIUM HYPOCHLORITE – 15%	275-GAL. TOTES		WET.LB.
126	SODIUM HYPOCHLORITE- 15%	30-GAL. CONTAINER		WET LB.
127	SODIUM HYPOCHLORITE- 15%	15-GAL. CONTAINER		WET LB.
128	SODIUM HYPOCHLORITE- 15%	5-GAL. CONTAINER		WET LB.
129	SODIUM HYPOCHLORITE- 15%	1-GAL. CONTAINER		WET LB.
130	SODIUM PERMANGANATE	55-GAL. DRUM		GAL.
131	SODIUM SILICOFLUORIDE	50-LBS. BAGS		DRY LB.
132	SODIUM THIOSULFATE (penta-hydrate)	2-KG. BAGS		DRY KG.
NEW ITEM -133	SODIUM THIOSULFATE (30% SOLUTION)	5- GAL. DRUM		GAL

134	SULFUR DIOXIDE	BULK		PER TON
135	THIOSULPHATE – CALCIUM (30%)	275-GAL. TOTES		PER GAL.
136	ZINC HEXAMETAPHOSPHATE (V-937 OR EQUAL)	50-LBS. BAGS		DRY LB.
137	ZINC ORTHOPHOSPHATE (V-970 OR EQUAL)	275-GAL. TOTES		WET. LB.
138	ZINC ORTHOPHOSPHATE (V-970 OR EQUAL)	BULK		WET LB.
139	ZINC ORTHOPHOSPHATE	55-GAL. DRUM		WET LB.
140	ZINC ORTHOPHOSPHATE (CARUS 3050 OR EQUAL)	50-LBS. PAILS		DRY LB.
141	ZINC ORTHOPHOSPHATE (SHANNON SLC 321 OR CARUS 3180)	30-GAL. DRUM		GAL.
142	ZINC ORTHOPHOSPHATE (SHANNON SLC 321 OR CARUS 3180)	275-GAL. TOTES		GAL.
143	ZINC ORTHOPHOSPHATE (CARUS 3180 OR EQUAL)	15-GAL. PAILS		GAL
144	ZINC ORTHOPHOSPHATE (SLI-932 OR EQUAL)	BULK		WET LB.
145	ZINC ORTHOPHOSPHATE (V-939 OR EQUAL)	BULK		WET LB.
146	ZINC ORTHOPHOSPHATE (UPZ-511 OR EQUAL)	BULK		WET LB.
147	ZINC ORTHOPHOSPHATE (CARUS 3150 OR EQUAL)	BULK		WET LB.
148	ZINC ORTHOPHOSPHATE (CARUS 3300 OR EQUAL)	BULK		GALLON
149	ZINC ORTHOPHOSPHATE (SLI-939 OR EQUAL)	BULK		WET LB.
150	Emergency Pumping and Storage Tanker to support temporary on-site storage for utility that needs to repair containment vessel.	Daily Fee:		Chemicals that bulk pumping and storage will support:

PROPOSAL FROM:

Arq Purification, LLC


8051 E. Maplewood Ave. Suite 210

Greenwood Village, Colorado 80111

Telephone: 720-259-5931 email: Bid.Desk@Arq.com

to furnish various bid products in accordance with specifications attached, it being further understood that the Northeast/Merrimack Valley Chemical Consortium (NEMVCC) and our Host Community reserve the right to accept or reject any bids in whole or in part, and to reject any or all bids it shall be deemed in the best interest of NEMVCC.

The Bidder acknowledges receipt of the following Addenda: _____

Signature:  _____

To Whom it May Concern:

In accordance with the advertisement of the Northeast/Merrimack Valley Chemical Consortium inviting proposals for furnishing Chemicals in conformity with the attached specifications, I/we hereby certify that I am/we are, the only person (s) interested in this proposal as principal(s); that it is made without collusion with any person, firm, or corporation, that an examination has been made of the specifications; and that the equipment/materials will be delivered within the time specified, at the following prices.

SIGNATURES



Authorizing Signature

Garrett Chandler, Vice President of Sales


Print Name and Title of Authorizing Signature

March 19th, 2024

Date

I certify under the penalty of perjury that I, to the best of my knowledge, have filed all state tax returns and paid all state taxes required under law.

*Signature of Individual or Corporate Name (Mandatory): Arq Purification, LLC

By: Corporate Officer (Mandatory, if Applicable): 
Garrett Chandler, Vice President of Sales

*Approval of a contract or other agreement will not be granted unless this certification clause is signed by the applicant.

WARRANTIES/GUARANTEES

All prospective bidders on items that carry warranties and/or guarantees must include with their sealed proposal a copy of the warranties and/or guarantees of major components as well as a copy of the warranties and/or guarantees on the items being bid/proposal if applicable.

The bidder must plan to assure the owner that the warranties or guarantees can be assigned to the owner. The owner's intent is to use the extent of the coverage in the warranties or guarantees as part of the awarding procedure.



March 19th, 2024

Northeast/Merrimack Valley Chemical Consortium
71 Pine Valley CT.
Rotonda West, FL 33947
Attn: Savas Danos

Delivered via: FedEx Priority Overnight

RE: FY 2024-25 Annual Bid for Water and Wastewater Chemicals

Dear Mr. Danos,

Attached is Arq Purification, LLC's ("Arq") bid submittal in response to Northeast/Merrimack Valley Chemical Consortium (the "Consortium") invitation to bid FY 2024-25 Annual Bid for Water and Wastewater Chemicals due Thursday March 21st, 2024, at 1:00PM.

Arq's core business is providing high-quality activated carbon products ideally suited for the municipal water purification market. Arq has established key relationships with top accounts in this industry, anchored on our collaborative approach and world class supply chain. Our entire team is committed to our contribution and partnerships with our customers in creating safe, clean water across North America. Arq was formed in 2015 to deploy world class technology to engineer and develop activated carbon products to purify and provide clean drinking water throughout North America. Our mission is to ensure our products allow for the treatment and purification of millions of gallons of clean drinking water across North America each and every day.

We are thrilled to announce that effective February 1, 2024, CarbPure Technologies, LLC became Arq Purification, LLC ("Arq"). This name change reflects our evolving commitment as an environmental technology company, developing high-performing patented products that help our customers accelerate to a cleaner, more sustainable future. Rest assured; this name change does not impact our day-to-day operations. Our dedicated team remains unchanged, and all existing contracts, agreements, and obligations will continue as usual. We are also pleased to inform you that our NASDAQ ticker has officially changed from ADES to ARQ. We are excited about our ability to further solidify our leadership position in the activated carbon market on our newly rebranded platform. As Arq, we are committed to partnering with our customers to provide solutions that make the air we breathe, the water we drink and the soil our children play on safer and healthier.

The CarbPure L and CarbPure T products that are offered in our bid are domestically sourced and manufactured in Louisiana. Arq notes that powdered activated carbon for water treatment is certified under ANSI/NSF Standard 61, under which our products are certified, rather than the ANSI/NSF Standard 60 as set forth in your specifications. We are able to provide copies of the Technical Data Sheet (TDS), Safety Data Sheet (SDS), and NSF Certification, for the CarbPure L and CarbPure T products upon request.

Our CarbPure T product that we are offering for the Andover W.T.P. location is produced from a

8051 E. Maplewood Ave | Suite 210 | Greenwood Village, CO 80111 | Ph: 720-259-5931

proprietary blend of lignite and wood based carbons at our facility in Louisiana that provide maximum performance in water treatment applications. To the extent that the Andover W.T.P. requires that powdered activated carbons must be made from bituminous coal, Arq takes exception.

The product will be shipped from Louisiana in dedicated full bulk truckloads via pneumatic trailers to the Andover W.T.P. and in super sacks to the Keene N.H. location.

Arq's standard lead time for delivery of powdered activated carbon to the Consortium will be within seven (7) days from the date of order confirmation, which is in alignment with section 1.7 of the Contract Clauses presented in this bid.

With respect to section 25.1 of the Contract Clauses, Arq believes that the Protective Liability Coverage is immaterial to a contract for the supply of activated carbon to the Consortium for which Arq is bidding, and therefore takes exception to that specific requirement. However, Arq maintains full commercial liability coverage and will continue to hold all other insurance requirements noted within the terms of Section 25. A certificate of insurance will be provided upon request and will name the Consortium as an additional insured party.

To the extent there may be other terms and conditions not contained within your invitation to bid which may be applicable to our supply of activated carbon, Arq's bid is subject to and conditioned upon coming to mutual agreement on those terms and conditions.

Please let me know if you have any questions or concerns regarding our submittal. We are confident that we can provide a secure and dependable supply of high-quality products and excellent customer service to the Northeast/Merrimack Valley Chemical Consortium.

Best regards,

Garrett Chandler
Garrett Chandler
Vice President of Sales

NORTHEAST/MERRIMACK VALLEY CHEMICAL CONSORTIUM

FISCAL YEAR 2024-25

OFFICIAL BID FORM - I

DATE:	March 21, 2024			
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VENDOR:	Astro Chemicals, Inc.			
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NOTE:	BID PRICES MUST BE PER UNIT SPECIFIED ON THIS BID FORM			
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ITEM NO.	CHEMICAL	UNIT TYPE	UNIT BID	PER
1	ALUMINUM CHLOROHYDRATE (ACH)	15-GAL. PAILS	No Bid	GAL.
2	ALUMINUM CHLOROHYDRATE (ACH)	1,000-GAL. BULK	No Bid	GAL.
3	ALUMINUM SULFATE - 50% SOLUTION Unrefined Bauxite Ore & Sulfuric Acid Preparation NSF 60/ANSI	BULK (500 – 5,000 GAL. deliveries)	No Bid	GALLON
4	ALUMINUM SULFATE - 50% SOLUTION Other Prep Method Alternative Bid NSF 60/ANSI	BULK (500 – 5,000 GAL. deliveries)	No Bid	GALLON
5	AMMONIA GAS	150-LBS. CYLINDER	No Bid	LB.
6	AMMONIUM SULFATE	50-LBS. BAGS	No Bid	DRY LB.
7	AMMONIUM SULFATE (40% SOLUTION)	500 – 1,000 GAL. deliveries	No Bid	GAL.
8	ANTHRACITE	60+ LBS. BAGS	No Bid	CU.FT.
9	AQUEOUS AMMONIA MUST BE 26° BAUMÉ (29%)	1,000-GAL. deliveries	No Bid	GAL.
10	CALCIQUEST ORTHO (PHOSPHORIC ACID)	30-GAL. DRUM	No Bid	GAL.

11	CALCIQUEST ORTHO (PHOSPHORIC ACID)	15-GAL. DRUM	No Bid	GAL.
12	CALCIUM CHLORIDE	50-LBS. BAGS	No Bid	DRY LB.
13	CALCIUM CHLORIDE	SUPERSACK	No Bid	DRY LB.
14	CALCIUM HYPOCHLORITE	PALLET/50 – 50 LBS. BAGS	No Bid	LBS
15	CALCIUM HYPOCHLORITE	LESS THAN PALLET - 50 LBS BAGS	No Bid	LBS
16	CALCIUM HYPOCHLORITE (Accu-Tab Blue SI by Fillion Associates)	55-LBS. PAILS	No Bid	LBS
17	CALCIUM HYPOCHLORITE (Accu-Tab SI by Axiall LLC)	55-LBS. PAILS	No Bid	LBS.
18	CALCIUM NITRATE	Per ton delivery (40/50 LBS. bags)	No Bid	DRY LB.
19	CARBON DIOXIDE	BULK	No Bid	LB.
20	CARBON POWDERED	BULK	No Bid	TON
21	CARBON POWDERED	SUPERSACK	\$1.685 ✓	DRY LB.
22	CAUSTIC SODA - 25% SOLUTION	SMALL BULK 500 – 1,000 GAL. deliveries	No Bid	WET LB.
23	CAUSTIC SODA - 25% SOLUTION	LARGE BULK 1,001 – 5,000 GAL. deliveries	\$0.255 ✓	WET LB.
24	CAUSTIC SODA - 25% SOLUTION	55-GAL. DRUM	No Bid	WET LB.
25	CAUSTIC SODA - 25 % SOLUTION	275-GAL. TOTES	No Bid	WET LB.
26	CAUSTIC SODA- 50% SOLUTION	SMALL BULK 500 – 1,500 GAL. deliveries	No Bid	WET LB.
27	CAUSTIC SODA – 50% SOLUTION	LARGE BULK 1,501 – 6,000 GAL. deliveries	No Bid	WT LB.

28	CHLORINE- DRY (HTH)	50-LBS. PAILS	No Bid	DRY LB.
29	CHLORINE	1 TON CYLINDER	No Bid	LB.
30	CHLORINE	150-LBS. CYLINDER	No Bid	LB.
31	CITRIC ACID 50%	250-GAL. TOTES	\$0.80	WET LB.
32	CITRIC ACID 50%	55-GAL. DRUM	\$0.85	WET LB.
33	CITRIC ACID 50% POWDER	50-LBS. BAGS/PALLET	\$1.18	DRY LB.
34	COPPER SULFATE FINE # 30	50-LBS. BAGS	No Bid	DRY LB.
35	COPPER SULFATE - LARGE	50-LBS. BAGS	No Bid	DRY LB.
36	FERRIC CHLORIDE - U.S. ONLY 32%-38%	BULK	No Bid	DRY LB.
37	FERRIC CHLORIDE - FOREIGN: 32%-38% (Alternative Bid)	BULK	No Bid	DRY.LB.
NEW ITEM -38	GRANULAR ACTIVATED CARBON	BULK	No Bid	DRY. LB.
NEW ITEM -39	GRANULAR ACTIVATED CARBON- REGENERATED	BULK	No Bid	DRY. LB.
40	HYDROFLUOSILICIC ACID- 24%	BULK	No Bid	WET LB.
41	HYDROFLUOSILICIC ACID- 24%	55-GAL. DRUM	No Bid	WET LB.
42	HYDROFLUOSILICIC ACID- 24%	270-GAL. TOTES	No Bid	WET LB.
NEW ITEM 42-A	HYDROGEN PEROXIDE – 27%	BULK	No Bid	GALS.
43	LIME (HYDRATED)	50-LBS. BAGS 2-ton min.	No Bid	DRY LB.
44	LIME SLURRY	BULK	No Bid	PER TON
45	LIQUID OXYGEN	BULK (<15 PPM THC)	No Bid	GAL.

46	LIQUID OXYGEN	BULK (<40 PPM THC)	No Bid	GAL.
47	LIQUID POLYMER	275-GAL. TOTES	No Bid	GAL.
48	LIQUID POLYPHOSPHATE (CARUS 8500 OR EQUAL)	BULK	No Bid	WET LB.
49	MAGNESIUM HYDROXIDE	275-GAL. TOTES	No Bid	GAL.
50	MANGANESE GREENSAND	BULK	No Bid	CU FT.
51	MANGANESE GREENSAND PLUS (alternate bid)	BULK	No Bid	CU FT.
52	METHANOL (100%)	55-GAL. DRUM	\$4.01 ✓	GAL.
53	MURIATIC ACID-20° BAUMÉ	BULK (1,000 – 3,000) GAL. delivered	No Bid	GAL.
54	MURIATIC ACID-20° BAUMÉ INHIBITED - NSF Certified	55-GAL. DRUM	No Bid	GAL.
55	MURIATIC ACID- 20° BAUMÉ	520-LBS. DRUM	No Bid	LB.
56	MURIATIC ACID- 20° BAUMÉ	4, 1-GAL. jugs per box	No Bid	GAL.
57	MURIATIC ACID - 15%	TOTE BULK (300-350 GAL.)	No Bid	GAL.
58	MURIATIC ACID – 20%	15-GAL. CARBOY	No Bid	GAL.
59	MURIATIC ACID- 20° BAUMÉ	PUMPED TOTE (300-350 GAL.)	No Bid	GAL.
60	POLY/ORTHO PHOSPHATE (CARUS 8650 OR EQUAL)	50-LBS. PAISLS	No Bid	LB.
61	ORTHOPHOSPHATE (CARUS 4500)	30-GAL. DRUM	No Bid	GAL.
62	ORTHO-POLYPHOSPHATE (AQUAMAG OR EQUAL)	BULK (300-500 GAL.)	No Bid	LB.
63	ORTHO-POLYPHOSPHATE (50%-50% Blend)	30-GAL. DRUM	No Bid	LB.
64	ORTHO-POLYPHOSPHATE (50%-50% Blend) (Aquamag or equal)	55-GAL. DRUM	No Bid	LB.

65	ORTHO-POLYPHOSPHATE (30%-70% BLEND)	30-GAL. DRUM	No Bid	LB.
66	ORTHO-PHOSPHATE (10%-90% ORTHO/POLY BLEND)	55-GAL. DRUM	No Bid	LB.
67	POLYPHOSPHATE (STERLING CP-33)	340-LBS. DRUM	No Bid	LB.
68	PHOSPHATE (LIQUID) (SHANNON SLI 5225 OR CARUS 8100)	30-GAL. DRUM	No Bid	GAL.
69	POLYMER (MANNICH) SNF POLYDYNE CLARIFLOC C-321	BULK	No Bid	LB.
70	POLYMER (ANIONIC) SNF POLYDYNE NE-1920	275-GAL. TOTES	No Bid	GAL.
71	POLYMER (CATIONIC) SNF POLYDYNE NE-1921	275 GAL. TOTES	No Bid	GAL.
72	POYMER (CATIONIC) SNF POYDYNE NE-1922	275-GAL. TOTES	No Bid	GAL.
73	POLYMER SNF POLYDYNE CLARIFLOC C6287	55-GAL. DRUM	No Bid	GAL
74	POLYMER SNF NE-1922	275-GAL. TOTES	No Bid	GAL
75	POLYMER SNF POLYDYNE CLARIFLOC GAC C6287	55- GAL.	No Bid	GAL.
76	LIQUID POLYMER BASF ZETEG 8848FS OR PRAESTOL K290 FLY	275-GAL. TOTES	No Bid	GAL
77	PHOSPHORIC ACID 75% SOLUTION	15-GAL. DRUM	\$0.86 ✓	WET LB.
78	POLYALUMINUM CHLORIDE (HOLLAND PCH 180 or EQUAL)	BULK	No Bid	GAL
79	POLYALUMINUM CHLORIDE (HOLLAND PCH 180 or EQUAL)	275-GAL . TOTES	No Bid	GAL
80	POLYALUMINUM CHLORIDE (HOLLAND EPIC 525 or EQUAL)	BULK	No Bid	GAL.
81	POLYALUMINUM CHLORIDE (HOLLAND PCH 182 OR EQUAL)	BULK	No Bid	GAL.
82	POTASSIUM HYDROXIDE- 45%	SMALL BULK	No Bid	WET LB.

		400 –1,000 GAL. Deliveries		
83	POTASSIUM HYDROXIDE – 45%	LARGE BULK 1,001 – 5,000 GAL. Deliveries	\$0.399 ✓	WET LB
			Note: delivered w/	Astro driver and equipment
84	POTASSIUM HYDROXIDE - 45%	BULK 800 – 1,500 GAL.- shorter wheelbase delivery	No Bid	WET LB
85	POTASSIUM HYDROXIDE- 45%	TOTES	No Bid	WET LB.
86	POTASSIUM HYDROXIDE- 45%	55-GAL. DRUM	No Bid	WET LB.
87	POTASSIUM HYDROXIDE – 45%	15-GAL. PAILS	No Bid	WET LB.
88	POTASSIUM PERMANGANATE (U.S. ONLY)	55-LBS. DRUM	No Bid	LB.
89	POTASSIUM PERMANGANATE (U.S. ONLY)	330-LBS. DRUM	No Bid	LB.
90	POTASSIUM PERMANGANATE (FOREIGN- Alternative Bid)	55-LBS. DRUM	No Bid	LB.
91	POTASSIUM PERMANGANATE (FOREIGN - Alternative Bid)	330-LBS. DRUM	No Bid	LB.
92	SODIUM ALUMINATE- 38% (AWWA B405 – LATEST)	BULK	No Bid	WET LB.
93	SODIUM BICARBONATE (AWWA/NSF 60)	BULK	No Bid	DRY LB.
94	SODIUM BICARBONATE (AWWA/NSF 60)	50-LBS. BAG Full Truckload Release	No Bid	DRY LB.
95	SODIUM BICARBONATE (WASTEWATER)	50-LBS. BAG Full Truckload Release	No Bid	DRY LB.
96	SODIUM BICARBONATE (WASTEWATER)	50-LBS. BAG Per Pallet	\$0.51 ✓	DRY LB.
97	SODIUM BISULFITE- 38% SOLUTION	BULK 1,000 GAL.+	\$0.206 ✓	WET LB.
98	SODIUM BISULFITE- 38% SOLUTION	MINI-BULK ≤ 800 GAL.	No Bid	WET LB.

99	SODIUM BISULFITE- 38% SOLUTION	55-GAL. DRUM	\$0.44	WET LB.
100	SODIUM METABISULFITE (GRANULAR)	50-LBS. BAGS 2 pallet delivery.	\$0.52	DRY LB.
101	SODIUM CARBONATE SODA ASH- DENSE	50-LBS. BAGS	\$0.385	DRY LB.
102	SODIUM CARBONATE SODA ASH -DENSE	SUPER SACKS	No Bid	DRY LB.
103	SODIUM CARBONATE SODA ASH- DENSE	BULK	No Bid	DRY LB.
104	SODIUM CHLORIDE	50 -LBS. BAGS	No Bid	DRY LB.
105	SODIUM CHLORITE – 25% SOLUTION – U.S. ONLY	BULK	No Bid	WET LB.
106	SODIUM CHLORITE- 25% SOLUTION – U.S. ONLY	55-GAL. DRUM	No bid	WET LB.
107	SODIUM CHLORITE – 25% FOREIGN (alternate bid)	BULK	No Bid	WET LB.
108	SODIUM CHLORITE- 25% FOREIGN (alternate bid)	55-GAL. DRUM	No bid	WET LB.
109	SODIUM CHLORITE- 25% SOLUTIONS-non AWWA for Wastewater Use Only	BULK	No Bid	WET LB.
110	SODIUM CHLORITE- 25% SOLUTIONS-non AWWA for Wastewater Use Only	55-GAL. DRUM	No Bid	WET LB.
111	SODIUM CHLORITE – (SAFE-T-CHLOR SOLID)	55-GAL. DRUM	No Bid	DRY LB.
112	SODIUM FLUORIDE U.S. ONLY	LESS THAN FULL 40 BAG PALLETS OF 50- LBS. BAGS	No Bid	DRY LB.
113	SODIUM FLUORIDE U.S ONLY	FULL 40 BAG PALLETS OF 50- LBS. BAGS	No Bid	DRY LB.
114	SODIUM FLUORIDE FOREIGN (Alternative Bid)	LESS THAN FULL 40 BAG PALLETS OF 50- LBS. BAGS	\$3.05	DRY LB.

115	SODIUM FLUORIDE FOREIGN (Alternative Bid)	FULL 40 BAG PALLETTS OF 50- LBS. BAGS	\$2.60 ✓	DRY LB.
116	SODIUM HEXAMETAPHOSPHATE	50-LBS. BAGS	\$1.90 ✓	DRY LB.
117	Sodium Hexametaphosphate PRISTINE SK-7641	55-GAL. DRUM	No Bid	WET LB.
118	SODIUM HYPOCHLORITE-5%	250-GAL. TOTES	No Bid	WET LB.
119	SODIUM HYPOCHLORITE- 12.5%	5-GAL. CARBOYS	No Bid	WET LB.
120	SODIUM HYPOCHLORITE- 12.5%	300-2,000 GAL. BULK	No Bid	WET LB.
121	SODIUM HYPOCHLORITE – 15%	SMALL BULK 400 – 1,000 GAL. deliveries	No Bid	WET LB.
122	SODIUM HYPOCHLORITE – 15%	LARGE BULK 1,001 – 7,000 GAL. deliveries	No Bid	WET LB.
123	SODIUM HYPOCHLORITE- 15% Certified Refrigerated Storage and Delivery (Alternative Bid)	BULK (400-5,000 GAL. deliveries)	No Bid	WET LB.
124	SODIUM HYPOCHLORITE- 15%	55-GAL. DRUMS	No Bid	WET LB.
125	SODIUM HYPOCHLORITE – 15%	275-GAL. TOTES	No Bid	WET LB.
126	SODIUM HYPOCHLORITE- 15%	30-GAL. CONTAINER	No Bid	WET LB.
127	SODIUM HYPOCHLORITE- 15%	15-GAL. CONTAINER	No Bid	WET LB.
128	SODIUM HYPOCHLORITE- 15%	5-GAL. CONTAINER	No Bid	WET LB.
129	SODIUM HYPOCHLORITE- 15%	1-GAL. CONTAINER	No Bid	WET LB.
130	SODIUM PERMANGANATE	55-GAL. DRUM	No Bid	GAL.
131	SODIUM SILICOFUORIDE	50-LBS. BAGS	No Bid	DRY LB.
132	SODIUM THIOSULFATE (penta-hydrate)	2-KG. BAGS	\$0.75 ✓	DRY KG.

NEW ITEM -133	SODIUM THIOSULFATE (30% SOLUTION)	5- GAL. DRUM	No Bid	GAL
134	SULFUR DIOXIDE	BULK	No Bid	PER TON
135	THIOSULPHATE – CALCIUM (30%)	275-GAL. TOTES	No Bid	PER GAL.
136	ZINC HEXAMETAPHOSPHATE (V-937 OR EQUAL)	50-LBS. BAGS	No Bid	DRY LB.
137	ZINC ORTHOPHOSPHATE (V-970 OR EQUAL)	275-GAL. TOTES	No Bid	WET LB.
138	ZINC ORTHOPHOSPHATE (V-970 OR EQUAL)	BULK	No Bid	WET LB.
139	ZINC ORTHOPHOSPHATE	55-GAL. DRUM	No Bid	WET LB.
140	ZINC ORTHOPHOSPHATE (CARUS 3050 OR EQUAL)	50-LBS. PAIS	No Bid	DRY LB.
141	ZINC ORTHOPHOSPHATE (SHANNON SLC 321 OR CARUS 3180)	30-GAL. DRUM	No Bid	GAL.
142	ZINC ORTHOPHOSPHATE (SHANNON SLC 321 OR CARUS 3180)	275-GAL. TOTES	No Bid	GAL.
143	ZINC ORTHOPHOSPHATE (CARUS 3180 OR EQUAL)	15-GAL. PAIS	No Bid	GAL
144	ZINC ORTHOPHOSPHATE (SLI-932 OR EQUAL)	BULK	No Bid	WET LB.
145	ZINC ORTHOPHOSPHATE (V-939 OR EQUAL)	BULK	No Bid	WET LB.
146	ZINC ORTHOPHOSPHATE (UPZ-511 OR EQUAL)	BULK	No Bid	WET LB.
147	ZINC ORTHOPHOSPHATE (CARUS 3150 OR EQUAL)	BULK	No Bid	WET LB.
148	ZINC ORTHOPHOSPHATE (CARUS 3300 OR EQUAL)	BULK	No Bid	GALLON
149	ZINC ORTHOPHOSPHATE (SLI-939 OR EQUAL)	BULK	No Bid	WET LB.
150	Emergency Pumping and Storage Tanker to support temporary on-site storage for utility that needs to repair containment vessel.	Daily Fee:	No Bid	Chemicals that bulk pumping and storage will support:

PROPOSAL FROM:

Astro Chemicals, Inc.

126 Memorial Drive

Springfield, MA 01104

Telephone: 800.223.0776 email: kelly.eddy@astrochemicals.com
to furnish various bid products in accordance with specifications attached, it being further understood that the Northeast/Merrimack Valley Chemical Consortium (NEMVCC) and our Host Community reserve the right to accept or reject any bids in whole or in part, and to reject any or all bids it shall be deemed in the best interest of NEMVCC.

The Bidder acknowledges receipt of the following Addenda: none --> Only revisions to bid sheet

Signature: *Kelly Eddy*

To Whom it May Concern:

In accordance with the advertisement of the Northeast/Merrimack Valley Chemical Consortium inviting proposals for furnishing Chemicals in conformity with the attached specifications, I/we hereby certify that I am/we are, the only person (s) interested in this proposal as principal(s); that it is made without collusion with any person, firm, or corporation, that an examination has been made of the specifications; and that the equipment/materials will be delivered within the time specified, at the following prices.

SIGNATURES

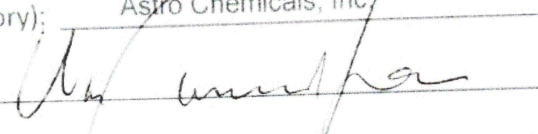
Kelly Eddy
Authorizing Signature

Kelly Eddy, Senior Sales Representative and Contract Manager
Print Name and Title of Authorizing Signature

3/21/2024
Date

I certify under the penalty of perjury that I, to the best of my knowledge, have filed all state tax returns and paid all state taxes required under law.

*Signature of Individual or Corporate Name (Mandatory): Astro Chemicals, Inc/

By: Corporate Officer (Mandatory, if Applicable): 

*Approval of a contract or other agreement will not be granted unless this certification clause is signed by the applicant.

WARRANTIES/GUARANTEES

All prospective bidders on items that carry warranties and/or guarantees must include with their sealed proposal a copy of the warranties and/or guarantees of major components as well as a copy of the warranties and/or guarantees on the items being bid/proposal if applicable.

The bidder must plan to assure the owner that the warranties or guarantees can be assigned to the owner. The owner's intent is to use the extent of the coverage in the warranties or guarantees as part of the awarding procedure.