

COUNTY OF ROCKLAND
Department of General Services
Purchasing Division

Contract Award Notification

Title: **Sludge Collection Equipment-Replacement Parts**

Contract Period: September 27, 2021, through September 26, 2022 with 4 one-year options

Original Date of Issue: September 27, 2021

Date of Revision:

BID No: **RFB-RC-2021-067**

Catalog: **Wastewater Treatment**

Authorized Users: Authorized Departments, All Political Subdivisions

Address Inquiries To:

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Title: Assistant Director of Purchasing
Phone: 845-364-3698
Fax: 845-364-3809
E-mail: curleya@co.rockland.ny.us

Description

This contract is for sludge collection equipment replacement parts

Contract #	Vendor Number	Contractor & Address	Telephone No.
BID 21-067	0000012818	Applied Industrial Technologies, Inc. 6 Enterprise Drive Albany, NY 12204 Contact: Mark Spink 2341@applied.com	518-427-5800 FAX: 518-427-6314
BID 21-067-A	0000023044	GP JAGER INC 328 W. MAIN STREET BOONTON, NJ 07005 JANELLE SANZ JSANZ@JAGERINC.COM	973-750-1180
BID 21-067-B	0000022858	Eastern Industrial Automation 14 Sebago Street Clifton, NJ 07013 Contact: Thomas Donch tomdonch@easternia.com	201-376-8824/ 201-794-3838 FAX: 201-794-3237

**COUNTY OF ROCKLAND
DGS – PURCHASING DEPARTMENT
BLDG. A, 2ND FLOOR, 50 SANATORIUM ROAD
POMONA, NY 10970
TELEPHONE NO.: 845-364-3820
FAX NO.: 845-364-3809**

LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE	PRODUCT / MFG. CODE	VENDOR
	Sprockets are to be deep chilled with a Birnell hardness of 360 min. and 3/16" minimum depth chill							
#0-1	(A SIDE) Y16A bearing support and bearing for 2 7/16" dia. Shaft, Fairfield/FMC, Siemens Industry JK5111-16A , BREWTON W3789 or approved equal	89065000003	4.00	Each	\$ 352.00	\$1,408.00	BREWTON W3789	Applied Industrial Technologies
#0-2	(A SIDE) 117Y, 46-3 spiral jaw clutch, RH, WT-42, Brewton W4812-2, 95811 Fairfield or approved equal	89065000004	4.00	Each	\$ 460.23	\$1,840.92	FAIRFIELD W4812-2/WT-42/95811	GP Jager Inc
#0-3	(A SIDE) 117Y, 46-4 spiral jaw clutch, LH, WT-43, Brewton W4812-2, 95811 Fairfield or approved equal	89065000005	4.00	Each	\$ 460.23	\$1,840.92	FAIRFIELD W4812-2/WT-43/95811	GP Jager Inc
#0-4	(A SIDE) 358Y, 102-3 hand wheel, RH, WT-44, Brewton W4812-1, 95811Fairfield or approved equal	89065000006	4.00	Each	\$ 439.07	\$1,756.28	FAIRFIELD W4812-2/WT-44/95811	GP Jager Inc
#0-5	(A SIDE) 358Y, 102-4 hand wheel, LH, WT-45, Brewton 4812-2 Fairfield or approved equal	89065000007	4.00	Each	\$ 439.07	\$1,756.28	FAIRFIELD W4812-2/WT-45/95811	GP Jager Inc
#0-6	(A SIDE) 496W95-A safety collars 2 7/16" dia. WT-51, Cut Sheet Brewton 95881 Fairfield or approved equal	89065000009	20.00	Each	\$ 29.29	\$585.80	FAIRFIELD WT-51/95881	GP Jager Inc
#0-7	(A SIDE) 158X11E tightener and sprocket for H78 chain WT-71, Brewton 2916-1, 95881 Fairfield or approved equal	89065000011	8.00	Each	\$ 536.00	\$4,288.00	BREWTON, 296-1	Applied Industrial Technologies
#0-8	(A SIDE) 158X11F tightener and sprocket for H78 chain WT-72, Brewton 2917-1, 95881 Fairfield or approved equal	89065000012	8.00	Each	\$ 536.00	\$4,288.00	BREWTON, 297-1	Applied Industrial Technologies

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	Sprockets are to be deep chilled with a Birnell hardness of 360 min. and 3/16" minimum depth chill							
#0-9	(A SIDE) Y20-A driver sprocket, #H78, FR. 11T, 9.26" P.D. with shear pin hub, bronze bushed with sleeve and trip device for limit switch, bore for 1 7/8" shaft keys 1/2" x 1/4", stainless steel sleeve, Brewton W-4829 Fairfield or approved equal	89065000013	10.00	Each	\$ 1,289.31	\$12,893.10	FAIRFIELD W-4829	GP Jager Inc
#0-10	(A SIDE) Cross collector sprocket (driven) Wt. 92, split sprocket, #H78, 12T, 10.08" P.D. HBS-L2-215, 5 1/4" x 3 5/8" TWC, bore 2.940 + .003, KS. SS. PATT.P P-42831, Brewton W4813 95811 Fairfield or approved equal	89065000015	8.00	Each	\$ 340.00	\$2,720.00	BREWTON W4813	Applied Industrial Technologies
#0-11	(A SIDE) 492Z115-A split, peak cap brgs babb. 2 15/16", WT-11, Brewton W3695, 95881 Fairfield or approved equal	89065000016	1.00	Each	\$ 363.00	\$363.00	BREWTON W3695	Applied Industrial Technologies
#0-12	(A SIDE) 1571Z39-A split M.I. SAF. Collar 2 15/16", WT-12, Brewton 95881 Cut Sheets or approved equal	89065001017	1.00	Each	\$ 54.00	\$54.00	BREWTON 2 15/16 COLLAR	Applied Industrial Technologies
#0-13	(A & B SIDES) 1101Y51-D split sprocket #H78, 40-T. 33.24"P.D. dished arms. Bore for 2 15/16" shaft, KS.S.S. for plastic chain, WT-13, Brewton W2834, 95881 or approved equal	89065000018	1.00	Each	\$ 1,692.00	\$1,692.00	BREWTON W2834	Applied Industrial Technologies
#0-14	(A & B SIDES) Collars 2 15/16", WT-12, Brewton 95881 Cut Sheets or approved equal	89065001019	1.00	Each	\$ 54.00	\$54.00	BREWTON , 2 15/16 COLLAR	Applied Industrial Technologies
#0-15	(A SIDE) 492Z131-K split sprockets #720-SC.F.R. 17-T, 8 1/2P. 16.61P.D. Bore for 2 15/16" SFT., S.S. for plastic chain, (4 3/4" TWC), WT-21, Brewton W4808, 95881 or approved equal	89065000020	1.00	Each	\$ 514.00	\$514.00	BREWTON W4808	Applied Industrial Technologies

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	Sprockets are to be deep chilled with a Birnell hardness of 360 min. and 3/16" minimum depth chill							
#0-16	(A SIDE) JK3587-13-C take-up units with split peak cap brgs. babb. 2 15/16", WT-31, Brewton W3608, 95881 or approved equal	89065000021	1.00	Each	\$ 825.00	\$825.00	BREWTON W3608	Applied Industrial Technologies
#0-17	(A SIDE) JK3587-13-D take up units with split peak cap brgs. babb. 2 15/16", WT-32, Brewton 3608, 95881 or approved equal	89065000022	1.00	Each	\$ 825.00	\$825.00	BREWTON W 3608	Applied Industrial Technologies
#0-18	(A SIDE) 1352Y28-K split sprockets #720-SC. 19-T, 9 1/2P., 18.48 P.D. Bore for 2 15/16" SFT.KS.IN line as pairs, S.S. for plastic chain (5/6 TWC), WT-14, Brewton W4412, 95881 or approved equal	89065000023	1.00	Each	\$ 570.00	\$570.00	BREWTON W4412	Applied Industrial Technologies
#0-19	(A SIDE) 492Z131-L split sprockets, #720-SC F.R., 17.T., 8 1/2P, 16.61 P.D. Bore for 2 15/16" SFT. Plain (NoS.S.) for plastic chain (4 3/4" TWC), WT-22, Brewton W4808, 95881 or approved equal	89065000024	1.00	Each	\$ 514.00	\$514.00	BREWTON W4808	Applied Industrial Technologies
#0-20	(A SIDE) Peak cap brgs. 2 15/16", WT-11, Brewton W3695, 95881 or approved equal	89065000025	1.00	Each	\$ 363.00	\$363.00	BREWTON W3695	Applied Industrial Technologies
#0-21	(A SIDE) Collars 2 15/16", WT-12, Brewton 95881 or approved equal	89065001026	1.00	Each	\$ 54.00	\$54.00	BREWTON 95881	Applied Industrial Technologies
#0-22	(A SIDE) Split sprockets 17-T, #720.SC S.S, WT-21, Brewton W4808, 95881 or approved equal	89065000027	1.00	Each	\$ 514.00	\$514.00	BREWTON W4808	Applied Industrial Technologies
#0-23	(A SIDE) Split sprockets 17-T, #720.SC plain, WT-22, Brewton W4809, 95881 or approved equal	89065000028	1.00	Each	\$ 497.00	\$497.00	BREWTON W4809	Applied Industrial Technologies
#0-24	(A SIDE) Link Belt, Steady Rest Bearing – Part#2-1239Z, 2-7/16, Link Belt 21239Z, Brewton/Fairfield, or approved equal	89065000037	4.00	Each	\$ 440.00	\$1,760.00	LINK BELT 2-1239-Z	Tristate Bearing Div Eastern Industrial Automation

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	Sprockets are to be deep chilled with a Birnell hardness of 360 min. and 3/16" minimum depth chill							
#0-25	(A & B SIDES) Right Hand Screw, 18" Diameter, 18" Pitch 3/8" Thick, Sectional flight welded on 5 1/2" SCH80 Pipe, Bushed and 2-Bolt drilled for 2-15/16" Shafts. Over All Length 9'8". James Eagen Sons, Charter Machine Company Charter Machine Company Part #: 18SQ624-R, Martin Sprocket or approved equal	89077000001	1.00	Each	\$ 2,690.00	\$2,690.00	Martin Sprocket 18SQ624-R	Applied Industrial Technologies
#0-26	(A & B SIDES) Left Hand Screw, 18" Diameter, 18" Pitch, 3/8" Thick, Sectional flight welded on 5 1/2 " SCH80 Pipe, Bushed and 2-Bolt drilled for 2-15/16" Shafts. Over All Length 9'8". James Eagen Sons, Charter Machine Company, or Martin Sprocket & Gear Part #: 18SQ624-L or approved equal	89077000002	1.00	Each	\$ 2,512.18	\$2,512.18	FAIRFIELD, 18SQ624-L	GP Jager Inc
#0-27	(A & B SIDES) 2-15/16" Hardened Coupling Shafts, James Eagen Sons, Charter Machine Company, Martin Sprocket & Gear or Fairfield Part #: CC6-H or approved equal	89077000003	1.00	Each	\$ 125.24	\$125.24	FAIRFIELD CC6-H	GP Jager Inc

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	Sprockets are to be deep chilled with a Birnell hardness of 360 min. and 3/16" minimum depth chill							
#0-28	(A & B SIDES) 18" x 2-15/16" 220 Hanger James Eagen Sons, Charter Machine Company, Martin Sprocket & Gear or Fairfield Part #: 18CH2206 or approved equal	89077000004	1.00	Each	\$ 187.00	\$187.00	Martin Sprocket, 18CH2206	Applied Industrial Technologies
#0-29	(A & B SIDES) 2" Hard Iron Bearing James Eagen Sons, Charter Machine Company or Martin Sprocket & Gear Part #: CHB2204MHI or approved equal	89077000005	1.00	Each	\$ 32.00	\$32.00	Martin Sprocket, CHB2204MHI	Applied Industrial Technologies
#0-30	(A & B SIDES)-2-15/16" x 16 5/8" Drive Shaft James Eagen Sons, Charter Machine Company or Martin Sprocket & Gear Part #: 1CD6BB or approved equal	89077000006	1.00	Each	\$ 120.00	\$120.00	Martin Sprocket, 1CD6BB	Applied Industrial Technologies
#0-31	(A & B SIDES) 2-15/16" x 12 3/8" End Shaft James Eagen Sons, Charter Machine Company or Martin Sprocket and Gear Part #: CE6BB-W or approved equal	89077000007	1.00	Each	\$ 84.00	\$84.00	Martin Sprocket, CE6BB-W	Applied Industrial Technologies

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	Sprockets are to be deep chilled with a Birnell hardness of 360 min. and 3/16" minimum depth chill							
#0-32	(A SIDE) Y-17A, 2 7/16" dia. X 3'3" long Drive Extension Shaft cut for keyways 5/8" x5/8" Brewton, or approved equal	89077000008	1.00	Each	\$ 399.00	\$399.00	BREWTON	Tristate Bearing Div Eastern Industrial Automation
#0-33	(A SIDE)145Y118-N Couping WT-53, bore 1 7/8"ks, 2 7/16"ks, Browning, or approved equal	89077000009	1.00	Each	\$ 390.00	\$390.00	BROWNING	Tristate Bearing Div Eastern Industrial Automation
#0-34	H78-D Hub, 18 Teeth Cast Iron Rim Split Sprocket 15.02" PD x 15/16 Face, Max Offset 3", Max Bore 2-15/16", Fairfield or approved equal	89077000010	1.00	Each	\$ 683.00	\$ 683.00	BREWTON H78-D Hub 18T CI Split	Applied Industrial Technologies
#0-35	Non-Metallic Collector Chain 10' section NCS720s chain with F26 (6") attachment link attached As per the attached specifications Envirex, Allied Locke, Polychem, Siemens, Fairfield FFCBN720NA6TAA or approved equal	89065100001	300.00	10' section	\$ 132.25	\$ 39,675.00	FAIRFIELD FFCBN720NA6TAA	GP Jager Inc
#0-36	Non-Metallic Attachment Link F26 (6") attachment link only for NCS720s chain As per the attached specifications Envirex, Allied Locke, Polychem, Siemens, Fairfield FFCBN720NA6T0A0 or approved equal	89065100012	300.00	each	\$ 14.38	\$ 4,314.00	FAIRFIELD FFCBN720NA6T0A0	GP Jager Inc

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	Sprockets are to be deep chilled with a Birnell hardness of 360 min. and 3/16" minimum depth chill							
#0-37	Non-Metallic Collector Chain 10' section NCS720s chain with F28 (8") attachment link attached As per the attached specifications Envirex, Allied Locke, Polychem, Siemens, Fairfield FFCBN720NA8TAAA or approved equal	89065100011	300.00	10' section	\$ 135.70	\$ 40,710.00	FAIRFIELD FFCBN720NA6TAAA	GP Jager Inc
#0-38	Non-Metallic Attachment Link F28 (8") attachment link only for NCS720s chain, As per the attached specifications. Envirex, Allied Locke, Polychem, Siemens, Fairfield FFCBN70NA8T0A0 or approved equal	89065100013	300.00	each	\$ 13.23	\$ 3,969.00	FAIRFIELD FFCBN720NA6T0A0	GP Jager Inc
#0-39	Flights with Filler Blocks 3" x 8" x 19' 4" As per the attached specifications Envirex Sigma, FMC 492X191, Hitachi Maxco, US Filter Envirex Products V06-1842-1-1, Polychem, Fairfield FF382D2W2R1232 w/ (2) ESC1FBPO386H4537 or approved equal	89065100004	120.00	Each	\$ 125.68	\$ 15,081.60	FAIRIFELD FF382D2W2R1232, FSC1FBPO386H4537	GP Jager Inc

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	Sprockets are to be deep chilled with a Birnell hardness of 360 min. and 3/16" minimum depth chill							
#0-40	Flights with Filler Blocks 3" x 8" x 14" As per the attached specifications Envirex Sigma, FMC 492X191, US Filter Envirex Products V06-1842-2-1, Polychem, Fairfield FF382D2W2R1168 w/ (2) FSC1FBPO386H4537 or approved equal	89065100005	150.00	Each	\$ 98.54	\$ 14,781.00	FAIRFIELD FF382D2W2R1168, FSC1FBPO386H4537	GP Jager Inc
#0-41	Flight Sigma with Filler Block 3" x 6" x 117" As per the attached specifications Envirex Sigma, US Filter Envirex Products H426625-1-100, Polychem, Allied-Locke, Fairfield FF362D2W2R0117 w/ (2) FSC1FBPO364H4537 or approved equal	89065100010	150.00	Each	\$ 10.50	\$ 1,575.00	ALLIED LOCKE	Tristate Bearing Div Eastern Industrial Automation
#0-42	Wear Shoes – Carry Shoes As per the attached specifications Envirex, FMC 806X66-1, Allied Locke, Polychem, Guardian, Fairfield FSCICWSUH53550A , Brandt MFG, CWS55 or approved equal	89065100003	600.00	Each	\$ 4.95	\$ 2,970.00	Brandt MFG, CWS55	Applied Industrial Technologies
#0-43	Wear Shoes – Return Shoes As per the attached specifications Envirex, FMC 806X66-1, Allied Locke, Polychem, Fairfield FSCIRWUSUH453550B , Brandt MFG, RWS50 or approved equal	89065100008	600.00	Each	\$ 4.70	\$ 2,820.00	Brandt MFG, RWS50	Applied Industrial Technologies

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	Sprockets are to be deep chilled with a Birnell hardness of 360 min. and 3/16" minimum depth chill							
#0-44	Turn Shaft Sprockets As per the attached specifications. Sprocket shall be affixed by set screens machined through the hub of the sprocket. Envirex, Brewton Iron Works, Hitachi Maxco, Allied Locke, Connexus, Fairfield FB13SUU290000SC60 , Brewton. W-4651CS or approved equal	89065100006	12.00	Each	\$ 424.00	\$ 5,088.00	Brewton, W-4651CS	Applied Industrial Technologies
#0-45	Turn Shaft Sprockets As per the attached specifications. Sprocket shall be free wheeling & restricted from lateral movement by use of collars Envirex, Brewton Iron Works, Hitachi Maxco, Allied Locke, Fairfield FB13SUU290000SC60 or approved equal	89065100009	12.00	Each	\$ 424.00	\$ 5,088.00	Brewton, W4651CS	Applied Industrial Technologies
#0-46	Head Shaft Sprockets As per the attached specifications Envirex, Brewton Iron Works, Allied Locke, Guardian, Fairfield FB19SCU29K00SC60 , Martin Sprocket, 337382 or approved equal	89065100007	8.00	Each	\$ 540.00	\$ 4,320.00	Martin Sprocket, 337382	Applied Industrial Technologies
#0-47	Chain Stainless steel with attachment link every 10 feet Hitachi-Maxco, FMC, Connexus, Fairfield FFCBF7153A83JAAA or approved equal as per attached specifications	89065110001	2200.00	Feet	\$ 27.31	\$ 60,082.00	FAIRFIELD FFCBF7153A83JAAA	GP Jager Inc

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	Sprockets are to be deep chilled with a Birnell hardness of 360 min. and 3/16" minimum depth chill							
#0-48	Head Shaft Length: 19'16", Size: 3 15/16" diameter, Hitachi-Maxco, FMC, Shafting CF 1018 Oil Spray and Paper, ALI, Connexus, Fairfield FSC1HSSLS1023439 or approved equal as per attached specifications	89065110002	4.00	Each	\$ 2,370.40	\$ 9,481.60	FAIRFIELD FSC1HSSLS1023439	GP Jager Inc
#0-49	Turn Shaft Length: 19', Size: 3 7/16" diameter, Hitachi-Maxco, FMC, Shafting CF 1018 Oil Spray and Paper, ALI, Connexus, Fairfield FSC18SSL1022834 or approved equal as per attached specifications	89065110003	12.00	Each	\$ 1,605.14	\$ 19,261.68	FAIRFIELD FSC18SSL1022834	GP Jager Inc
#0-50	Wear Strips For Floor Rails & Return Tracks Size: 3" x 1/2", Hitachi-Maxco, FMC, ALI, Connexus, Fairfield FSCIFWUH5030H120 or approved equal as per attached specifications	89065110004	2200.00	Feet	\$ 3.78	\$ 8,316.00	FAIRFIELD FSCIFWUH5030H120	GP Jager Inc
#0-51	Turn Shaft Sprockets 17 teeth min. Hitachi-Maxco, FMC, SAV715 17T, Brewton, Fairfield FB17SUU34000SC60 or approved equal as per attached specifications	89065110005	24.00	Each	\$ 442.75	\$ 10,626.00	FAIRFIELD FB17SUU34000SC60	GP Jager Inc
#0-52	Head Shaft Sprockets 19 teeth min., Hitachi-Maxco, FMC, Guardian, Brewton, Fairfield FB19CU39K00SC60 or approved equal as per attached specifications	89065110006	8.00	Each	\$ 455.40	\$ 3,643.20	FAIRFIELD FB19CU39K00SC60	GP Jager Inc

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#0-53	Drive Sprockets 40 teeth min., Hitachi-Maxco, FMC, Brewton, Fairfield FA40SCU00K0BS060 or approved equal as per attached specifications	89065110007	4.00	Each	\$ 970.00	\$ 3,880.00	MARTIN , AS SPECIFIED	Tristate Bearing Div Eastern Industrial Automation
#0-54	Submerged Bearings - Head Shaft Bearings Hitachi-Maxco, FMC, Brewton W-3698, Connexus, Fairfield FSC1WBIBBSMD000 or approved equal as per attached specifications	89065110008	8.00	Each	\$ 553.00	\$ 4,424.00	BREWTON W-3698	Applied Industrial Technologies
#0-55	Submerged Bearings - Turn Shaft Bearings Hitachi-Maxco, FMC, Brewton W-3694, Connexus, Guardian 3-1622-4, Fairfield FSC1WBIBBSMD000 or approved equal as per attached specifications	89065110009	24.00	Each	\$ 394.00	\$ 9,456.00	BREWTON W-3694	Applied Industrial Technologies
#0-56	Non-Metallic Collars Hitachi-Maxco, FMC, ALI UHMW, 2-1821-4 UHMW, Guardian, Connexus, Tri-State Bearings, Fairfield or approved equal as per attached specifications	89065110010	52.00	Each	\$ 25.3000	\$ 1,315.60	FAIRFIELD	GP Jager Inc
#0-57	Take-Up Bearing Assembly Hitachi-Maxco, FMC, Brewton W3611, 3-1652-4, Guardian, Connexus, Fairfield FSCITBFSBB000000 or approved equal as per attached specifications	89065110011	8.00	Each	\$ 1,271.00	\$ 10,168.00	BREWTON W3611	Applied Industrial Technologies

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TITLE:
Sludge Collection Equipment-Replacement Parts

RFB #:
RFB-RC-2021-067

SPECIFICATIONS

1. SCOPE

- 1.1. Provide pricing for the purchase of specified replacement parts for the Rockland County Sewer District #1 primary and secondary settling tanks (A and B Sides) at the Rockland County Sewer District # 1 treatment plant. Note: This bid is for pricing only quantities shown are estimates. Items purchased will depend on the requirements of the Rockland County Sewer District # 1.

2. NOTICE TO BIDDER – BID SUBMISSION

2.1. PREFERRED METHOD – ELECTRONIC BID SUBMISSION

- 2.1.1. Unit pricing and required bid documents shall be received on the date and time specified in the Invitation to Bid and may be submitted online via the County’s electronic bid submission portal Bonfire (See Submission Instructions). Electronic Bid submissions received after the specified deadline will be automatically rejected.

- 2.1.1.1. Submit unit pricing in accordance with the line items provided.

- 2.1.1.2. Complete and upload required bid forms as one single pdf. Document with your bid submission. If submitting pricing for as equal product, bidders shall upload required documents.

3. SITE VISIT

- 3.1. Bidders are encouraged to visit the Sewer District site. Contact Mr. Josue Thomas at (845) 365-6495 to schedule a site visit. Bidder shall be held responsible that products bid meet the requirements and specifications whether or not he visits the site.

4. REQUIREMENTS

- 4.1. Items bid shall be Mfg. by FMC, Brewton, Charter Machine Company, James Eagen Sons Co., as specified on the proposal pages or approved equal.

5. INTERCONNECTABILITY

- 5.1. This equipment must have the ability to interconnect with the existing equipment. Bidder must guarantee interconnectability in writing with the bid. In addition, vendor must provide any required data within five business days of request from the Rockland County Sewer District # 1 authorized representative.

6. COMPATIBILITY

- 6.1. Equipment offered shall be compatible with the existing equipment/environment in the plant settling tanks without the use of adapters.

7. APPROVED EQUAL OR EQUIVALENT PRODUCTS

- 7.1. Bidders shall submit an item by item listing and explanation of any differences between their product specifications and performance and the listed bid specifications. Product and service warranties must be included with bid.
- 7.2. If bidders submit or bid for equivalent or approved equal products, they must submit manufacturer’s product description and specifications. These specifications must include all items listed in the bid

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specifications. Bidder shall also include a side by side comparison of the offered product to the specified product.

- 7.3. Items requiring adapters will not be acceptable. Bidder shall provide a list of 5 installations where items bid are being used with the same type of equipment that is being utilized by the Rockland County Sewer District # 1. The equipment shall have been in use for a minimum of three years. References need to include location, contact and telephone number of each installation. See Certification of Experience Form.
- 7.4. Bidder must be able to demonstrate within one week after notice and guarantee in writing that the item bid is interconnectable with existing equipment.

8. BRAND NAME

- 8.1. The use of a brand name is for the purpose of describing a standard of quality, performance and characteristics desired and is not intended to limit or restrict competition.

9. DELIVERIES

- 9.1. All parts must be delivered Monday – Friday, excluding holidays, between the hours of 8 AM – 2 PM.

10. CONTRACT PRICE ADJUSTMENTS UPON RENEWAL

- 10.1. The proposed rates shall remain firm through the first contract period with no price adjustments allowed. If the County exercises any of the option years of the contract, Contractors may submit a request for adjustment on the yearly anniversary date of the contract. Any request for price adjustment(s) shall be submitted thirty (30) days in advance in writing to the Director of Purchasing. Any and all price adjustments will be limited to the percentage increase in the CPI Index – All Urban Consumers for the preceding 12 months. The County reserves the right to reject any request for price increase deemed excessive.

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11. DETAILED SPECIFICATIONS

11.1. SPROCKETS

11.1.1. Sprockets are to be deep chilled with a Birnell hardness of 360 min. and 3/16" minimum depth chill.

11.2. SPECIFICATIONS FOR NON-METALLIC COLLECTOR CHAIN AND ATTACHMENT LINKS ITEMS 35-38

11.2.1. All collector flight chain furnished by the Contractor shall meet the following specifications:

11.2.1.1. Chains shall be 6" pitch type 720, curved side bar with an average weight of 1.3 to 1.4 lbs. per foot. Side bars shall be curved to a 10" radius. The chain shall have a catalog working load of not less than 2,600 lbs. based upon both strength and wear considerations.

11.2.1.2. Lengths and attachments shall be manufactured of reinforced polyester alloy with barrel and side bars integrally molded to insure squareness of the links. Connecting pins of glass reinforced polyester alloy or fiberglass fortified acetal shall have a T-head feature to prevent pin rotation, and shall be held in place without the need for spring clips, cotters or similar devices. The pins shall be pressed into the link side bars to exclude abrasives. Rigid attachments shall extend the full depth of the flight and shall be designed to push the flight to minimize the loading on the flight attachment bolts. Attachments are to be spaced at 10 foot centers.

11.2.1.3. The chain barrel shall have a diameter along its full working length, which allows proper engagement, with a 1" maximum face width of a 720 sprocket.

11.2.1.4. Each link shall have a 6" pitch with .941" diameter pins.

11.2.1.5. Chain lengths shall be proof tested at a load of 5,000 lbs. Proof loads shall not cause damage or distortion to the chain.

11.2.1.6. Copies of chain tests performed on identical chain shall be submitted to document compliance with the specifications.

11.2.2. Quality Control

11.2.2.1. The chain manufacturer shall have an approved SPC System in effect and in use from raw material inspection through and including chain test. To insure in process control, the following tests shall be run at the appropriate time in the manufacturing cycle:

11.2.2.1.1. Ultimate strength of single links and pins - Two links and pins shall be pull tested for every 125 pieces molded. This shall be continuous throughout the molding operation. The loading shall be averaged to verify that the ultimate strength is not less than 6,300 lbs.

11.2.2.1.2. Qualification ultimate strength testing of assembled chain - Six pitch sample strands from each lot of molded links and pins shall be qualified prior to chain assembly. Qualification testing shall consist of ultimate strength test performed by the chain manufacturer. The ultimate strength of the sample strands shall exceed 6,300 lbs. with an elongation not to exceed 3 percent.

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- 11.2.2.1.3. Proof loading of assembled ten foot (20 pitches) chain strands - Every assembled ten foot strand of chain shall be proof loaded to 5,000 lbs. prior to shipping.
- 11.2.2.1.4. Chain strands shall be shipped in 10 foot sections, and shall be checked for matching per ANSIB 29.21M - 1981. Chain to be matched within .190".
- 11.2.2.1.5. Length specifications - Assembled 20 - Link strands of 6" pitch chain under a 130 pound measuring load shall not be less than 120.0 inches and not greater than 120.75 inches.
- 11.2.2.1.6. Camber specifications - Chain camber shall comply with requirements of ANSIB 29.21M - 1981. Chain to camber a minimum of 1 inch in each direction and to be equal to each other within 1 1/2 inch.
- 11.2.2.1.7. Twist specifications - Chain twist shall comply with requirements of ANSIB 29.21M - 1981. Assembled 10 foot strands shall twist a minimum of 10⁰ in each direction and be equal to each other within 15⁰.
- 11.2.2.1.8. Certified test data on the above shall be submitted to the owner for their review and approval.

11.3. SPECIFICATIONS FOR FLIGHTS ITEMS 39 AND 40

- 11.3.1. The fiberglass flights shall be 3" x 8" nominal size, essentially rectangular in cross section, with the front having a transverse concave indentation to provide structural support, and a transverse gap in the back to allow circulation of water through the member to render it non-buoyant. The member shall have a Moment of Inertia of not less than 2.01 about its minor axis. The flight shall be of pultruded isothalic polyester composite construction with an average fiberglass content of 45 percent to ensure total encapsulation of the glass fibers to prevent wicking. The use of extenders in the resin is prohibited.
- 11.3.2. Maximum water absorption shall be no greater than 0.5% in accordance with ASTM D-570. The flight section shall include a scraper lip on the leading edge of the flight to optimize cleaning of the tank floor. Polypropylene filler books shall be furnished to allow the flight to be securely bolted to the chain attachment. The blocks shall provide an interference fit with the flight to maintain proper positioning during assembly. Flight shall be accurately drilled and notched at the factory and banded together for shipment.

11.4. SPECIFICATIONS FOR FLIGHTS ITEM 41

- 11.4.1. Flights shall be 3" x 6" nominal size fiberglass construction, essentially rectangular in cross section, with the front having a transverse concave indentation to provide structural support, and a transverse gap in the back to allow circulation of water through the member to render it non-buoyant. The member shall have a Moment of Inertia of not less than * in.⁴ about its minor axis. The flight shall be of pultruded isothalic polyester composite construction with a minimum fiberglass content of 50 % but no greater than 60%, to insure member strength and to insure total encapsulation of the glass fibers to prevent wicking. The use of extenders in the resin is prohibited.
- 11.4.2. Maximum water absorption shall be no greater than 0.6% after immersion for 48 hrs. at 73.4⁰ F (23⁰ C) in accordance with ASTM D-570. The flight section shall include a scraper lip on the leading edge of the flight to optimize cleaning of the tank floor. Polypropylene filler blocks shall be furnished to allow the flight to be securely bolted to the chain attachment. The blocks shall

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provide an interference fit with the flight to maintain proper positioning during assembly. Flight spacing shall be approximately 10 ft. for longitudinal collectors (and 5 ft. for cross collectors). Flight shall be accurately drilled and notched at the factory and banded together for shipment.

11.4.2.1. a* Moment of inertia for a 6" sigma flight = 1.6.

11.5. SPECIFICATIONS FOR UHMW WEAR SHOES ITEMS 42 AND 43

11.5.1. Each flight shall be provided with 1/2" thick UHMW wear shoes designed to run on the return track and floor rails respectively. Material shall be all virgin as defined by ASTM D 4020-81. Wear shoes shall be made from a powder having a molecular weight exceeding four million and intrinsic viscosity greater than 24. Finished wear shoes shall have a relative abrasion resistance of 12. Water absorption after 24 hours immersion per ASTM D570 shall be nil.

11.5.2. Maximum water absorption shall be no greater than 0.6% after immersion for 48 hrs. at 73.4⁰ F (23⁰ C) in accordance with ASTM D-570. The flight section shall include a scraper lip on the leading edge of the flight to optimize cleaning of the tank floor. Polypropylene filler blocks shall be furnished to allow the flight to be securely bolted to the chain attachment. The blocks shall provide an interference fit with the flight to maintain proper positioning during assembly. Flight spacing shall be approximately 10 ft. for longitudinal collectors (and 5 ft. for cross collectors). Flight shall be accurately drilled and notched at the factory and banded together for shipment.

11.5.2.1.a * Moment of inertia for a 6" sigma flight = 1.6.

11.6. SPECIFICATIONS FOR SPROCKETS ITEMS 44,45 AND 46

11.6.1. Turn Shaft Sprockets - Sprockets for the collector chains shall be machined totally of UHMW-PE, virgin material having a hardness of not less than Rockwell R56, having a tensile of no less than 6,400 PSI based on ASTM D638 standards, and a water absorption rate not to exceed 1.3 percent at saturation in accordance with ASTM D570. The sprockets shall be of split construction. The sprockets halves shall be assembled on the shafting with stainless steel bolts through the hub which exert compressive force around the full periphery of the hub. All sprockets shall have a chain saver rim retained into the body for the full 360⁰ of the sprocket. Chain saver rims utilizing bolts, wraps, or fasteners to retain the chain saver flange to the sprocket will not be accepted. One shaft sprocket per turn shaft shall be affixed by set screws machined through the hub of the sprockets. The other sprocket shall be freewheeling, restricted from lateral movement by use of collars.

11.6.1.1. Sprocket size: Min. Pitch Diameter: 12.89", Min. Number of teeth: 13.

11.6.1.2. Bore Size: 2 15/16".

11.6.2. Head Shaft Sprockets - Sprockets for the head shaft shall utilize a combination design with a cast iron body, split with keyway and set screw. The head shaft sprockets shall have the keyway machined into the hub in such a way as to restrict lateral movement of the key. The teeth shall be replaceable and machined out of UHMW-PE as described in above. The cast iron hubs shall be shop painted by the manufacturer with two coats of an approved corrosion resistant paint.

11.6.2.1. Sprocket size: Min. Pitch Diameter: 18.45", Min. Number of teeth: 19.

11.6.2.2. Bore Size: 2 15/16".

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11.7. SPECIFICATIONS FOR ITEM 47 – CHAIN

- 11.7.1. The collector chain shall be type 715 stainless steel 403 grade as manufactured by Hitachi-Maxco Ltd., FMC, or approved equal.
- 11.7.2. Each link shall have a 6.00 inch pitch with 9/16” diameter pin. The weight of the chain including an F228 attachment in 10 foot long strands shall not be less than 3.9 pounds/foot.
- 11.7.3. The steel sidebars shall be 15/64” thick x 1 57/64” maximum height of type 403 stainless steel. The sidebar shall be annealed and treated for stress relieved stabilized microstructure. The sidebar shall be of the curvature to accepting onto chain saver type sprockets.
- 11.7.4. All barrels shall be made of type 403 stainless steel. The barrels shall have a hardness range of 35-45 Rockwell C, and shall have adequate toughness to withstand normal abuse in handling installation and service. Barrel diameter shall be 1.024 inches.
- 11.7.5. The chain barrel shall have a diameter along its full working length which allows proper engagement with a 1 inch maximum face of sprocket.
- 11.7.6. All chain pins shall be made of type 403 stainless steel. Heat treated to a hardness of 35-45 Rockwell C, all pins shall have Type 304 stainless steel J cotters.
- 11.7.7. The chain shall be furnished in accordance with good chain manufacturing practice, including link squareness and removal of burrs.
- 11.7.8. Chain shall be furnished with a black protective finish. Finish is to protect chain during shipment and storage prior to use.

11.8. SPECIFICATIONS FOR ITEMS 48 AND 49 SHAFTS

- 11.8.1. Shafts shall be cold rolled steel, straight and true, continuous between bearings. Shafts shall be shipped stripped, and painted with 3 mills of suitable coating. Set collars for each turn shaft shall be supplied.

11.8.2. <u>SHAFT</u>	<u>DIAMETER, INCHES</u>
ITEM 14. Head Turn	3 15/16”
ITEM 15. Turn Shaft	3 7/16"

- 11.8.3. Item #14 is 19 feet and 6 inches in length and has three keyways.
- 11.8.4. Item #15 is 19 feet in length.
- 11.8.5. Items #14 and #15 shall be painted with 3 mils of suitable coating – Houghtons #344 Rust Preventative or approved equal.

11.9. SPECIFICATIONS FOR ITEM 50 – WEAR STRIPS FOR FLOOR RAILS AND RETURN TRACKS

- 11.9.1. UHMW-Polyethylene wear strips, 1/2 inch thick by 3 inches wide, shall be provided and attached to the existing steel floor rails and return tracks. Each strip shall include one anchoring hole and not less than two slotted holes to accommodate the 316 stainless steel weld washers used to secure the wear strips to the steel rails and tracks. Ends of the strips shall be beveled to allow a smooth transition from section to section.

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11.10. SPECIFICATIONS FOR ITEM 51 – TURN SHAFT SPROCKETS

11.10.1. Sprockets for the collector chains shall be machined totally of UHMW-PE, virgin material having a hardness of not less than Rockwell R56, having a tensile of no less than 6,400 PSI based on ASTM D638 standards, and a water absorption rate not to exceed 1.3 percent at saturation in accordance with ASTM D570. The sprockets shall be of split construction and shall have a tooth profile compatible with stainless steel chain. The sprocket halves shall be assembled on the shafting with stainless steel bolts through the hub which exert compressive force around the full periphery of the hub. All sprockets shall have a chain saver rim retained into the body for the full 360 degrees of the sprocket. Chain saver rims utilizing bolts, wraps, or fasteners to retain the chain saver flange to the sprocket will not be accepted. One turnshaft sprocket per turn shaft shall be affixed by set screws machined through the hub of the sprockets. The other sprocket shall be freewheeling, restricted from lateral movement by use of collars.

11.10.2. Sprocket Size: Min. Pitch - 16.60, Min. # of Teeth – 17

11.11. SPECIFICATIONS FOR ITEM 52 – HEAD SHAFT SPROCKETS

11.11.1. Sprockets for the head shaft shall utilize a combination design with a cast iron body, split with keyway and set screw. The head shaft sprockets shall have the keyway machined into the hub in such a way as to restrict lateral movement of the key. The teeth shall be replaceable and machined out of UHMW as described in above. The cast iron hubs shall be shop painted by the manufacturer with two coats of an approved corrosion resistant paint.

11.11.2. Sprocket Size: Min. Pitch - 18.45, Min. # of Teeth – 19

11.12. SPECIFICATIONS FOR ITEM 53 – DRIVE SPROCKET

11.12.1. The drive sprocket shall be designed to operate on H78 drive chain. The sprocket shall be of split construction. Hubs shall be made of cast iron conforming to ASTM A48, and be of the offset design. The drive sprocket shall have not less than 40 teeth. Sprocket teeth shall be manufactured of UHMW. UHMW material shall be made from a powder having a molecular weight exceeding four million and intrinsic viscosity greater than 24 and have a relative abrasion resistance of 12. Water absorption after twenty four (24) hours immersion per ASTM D570 shall be nil. Teeth shall be furnished in replaceable segments and attached to the hubs with type 18-8 stainless steel fasteners.

11.13. SPECIFICATIONS FOR ITEMS 54 AND 55 – SUBMERGED BEARINGS

11.13.1. All underwater bearings shall be babbitted and of the water lubricated Peak Cap self-aligning type specially designed to prevent accumulation of settled solids on their surfaces. Bearings shall be two piece to permit easy removal of the shaft without removing the bearing bracket from the wall. These bearings shall be bolted directly to the concrete wall in a manner which will permit their easy adjustment. The bearings shall be equipped with grease fittings for lubrication when the tanks are dewatered.

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11.14. **SPECIFICATIONS FOR ITEM 56 – NON-METALLIC COLLARS**

- 11.14.1. All collars furnished for sludge collector shafting shall be manufactured of polyurethane. The collars shall be of split construction mounted with 3/8” diameter stainless steel hardware. The collars shall have male-female locators to assure proper alignment.

11.15. **SPECIFICATIONS FOR ITEM 57 – TAKE-UP BEARING ASSEMBLY**

- 11.15.1. Take-up assemblies shall be provided for one shaft of each longitudinal collector; shall provide not less than 12” horizontal travel; shall be of the cantilever fabricated steel design with bronze take-up screws, so designed that no recesses in the concrete are required to maintain clearances.

11.16. **Item #58** - 2 3/16 Dia x 2’ 2” Lg. Jack Shaft, Material - #C-1045

11.17. **Item #59** - 2 3/16 Dia x 4’ 3” Lg. Jack Shaft, Material - #C-1045

11.18. **Item #60**- Ductile Iron Style 2 Sliding Base Chain Tighteners Complete with 7T Cast Iron Chilled Rim Sprocket

11.19. **Item #61** - 11T78 Jaw Clutch/Handwheel Sprocket Style-2, RH 2 3/16 Bore Cast Iron Chilled Rim

11.20. **Item #62** - 11T78 Jaw Clutch/Handwheel Sprocket Style-2, LH 2 3/16 Bore Cast Iron Chilled Rim

11.21. **Item #63** - 13T78 Jaw Clutch/Handwheel Sprocket Style-2, RH 2 3/16 Bore Cast Iron Chilled Rim

11.22. **Item #64** - 13T78 Jaw Clutch/Handwheel Sprocket Style-2, LH 2 3/16 Bore Cast Iron Chilled Rim

12. AWARD

- 12.1. Award shall be made on a line by line basis to the lowest responsive responsible bidder (s) meeting the stated requirements.
- 12.2. Quantities listed are estimates. Actual quantities may be more or less than the estimated amounts. Items purchased will depend on the requirements of the Rockland County Sewer District # 1.
- 12.3. In an effort to expedite the award of this contract and to immediately process a Purchase Order, the County is requesting all bidders submit the required Wkm’s Compensation Certificate, NYS Disability Certificate and Certificate of Liability with their bid submission, however, the apparent low bidder shall have minimum of five days after notification to submit the required documentation.