

COUNTY OF ROCKLAND
Department of General Services
Purchasing Division

Contract Award Notification

Title: **Motors-AC Motor Inspection, Overhaul, Rewind,
Preventive Maintenance & Repair**

Contract Period: September 28, 2022 through September 27, 2023 with 4 one-year options
Extended through 9/27/24 w/3 one-year options

Original Date of Issue: August 29, 2022

Date of Revision: 2/20/24

BID No: **RFB-RC-2022-100**

PRC#: **2022006611**

Catalog: **Wastewater Treatment**

Authorized Users: Rockland County Sewer District, All Political Subdivisions

Address Inquiries To:

Name: Robert Poole
Title: Purchaser II
Phone: 845-364-3808
Fax: 845-364-3809
E-mail: pooler@co.rockland.ny.us

Description

This contract is to perform various AC Motor Inspection, Overhaul, Rewind, P/M & Repair Services

Contract #	Vendor Number	Contractor & Address	Telephone No.
BID 22-100	0000007439	Longo Electrical Mechanical 1 Harry Shupe Blvd. Wharton, NJ 07885 Contact: Joseph M. Longo jmlongo@elongo.com sandy.welch@elongo.com	973-537-0400 Ext. 720 FAX: 973-537-0404

COUNTY OF ROCKLAND
DGS – PURCHASING DEPARTMENT
BLDG. A, 6TH FLOOR, 50 SANATORIUM ROAD
POMONA, NY 10970
TELEPHONE NO.: 845-364-3820
FAX NO.: 845-364-3809

VENDOR: LONGO ELECTRICAL

LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
1	Labor Rates for Monday to Friday 8:00 AM to 4:00 PM	92961000001	500	HOUR	\$ 40.00	\$ 20,000.00
3	Labor Rates for Monday to Friday 4:00 PM to 8:00 AM	92961000002	50	HOUR	\$ 40.00	\$ 2,000.00
4	Labor Rates for Saturday 8:00 AM to 4:00 PM	92961000003	50	HOUR	\$ 40.00	\$ 2,000.00
5	Labor Rates for Saturday 4:00 PM to 12:00 Mid.	92961000004	50	HOUR	\$ 40.00	\$ 2,000.00
6	Labor Rates for Sunday AM 12:00 Mid. to 8:00 AM	92961000005	50	HOUR	\$ 40.00	\$ 2,000.00
7	Labor Rates for Sunday 8:00 AM to 4:00 PM	92961000051	50	HOUR	\$ 40.00	\$ 2,000.00
8	Labor Rates for Sunday 4:00 PM to 12:00 Mid.	92961000052	50	HOUR	\$ 40.00	\$ 2,000.00
9	Labor Rates for Monday AM 12:00 Mid. to 8:00 AM	92961000006	50	HOUR	\$ 40.00	\$ 2,000.00
10	Labor Rates for Holiday	92961000007	50	HOUR	\$ 40.00	\$ 2,000.00

<p style="text-align: center;"> COUNTY OF ROCKLAND DGS – PURCHASING DEPARTMENT BLDG. A, 6TH FLOOR, 50 SANATORIUM ROAD POMONA, NY 10970 TELEPHONE NO.: 845-364-3820 FAX NO.: 845-364-3809 </p> <p style="text-align: right;">VENDOR: LONGO ELECTRICAL</p>						
LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
11	MATERIAL COSTS Percent Mark-up shall be added to suppliers cost for any parts and materials which may be purchased in conjunction with bid. (Bidder must enter “0” in the Mark Up section if there is no Mark Up).	92961000008	Estimated Dollars Expended \$25,000.00	PERCENT MARK-UP	15%	\$ 28,750.00
12	FIELD SERVICE - Lump Sum price for field service of Motors between 250 and 300 HP. Shall include all labor, material and equipment to disconnect and remove 250-300 HP motors from pedestal, transport to repair facility, return repaired motor to RCSD#1 facility, re-install and re-connect motor	92961000054	1	Lump Sum	\$ 7,500.00	\$ 7,500.00
13	TOTAL LABOR, MATERIAL AND FIELD SERVICE - SUM OF ITEM #'S - 1 THROUGH 12					\$ 72,250.00
Firm price for inspection, overhaul and preventative maintenance of any A.C. motor during term of contract						

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14	PLANT FACILITY INSPECTION Manufacturer: Continental Power Serial No.: H76851, 52, 71, 72 Frame: SNV686P H.P.: 250 Volts Pri: 480 Amps Pri: 299 Type: DP RPM: 585 Volts Sec: 600 Amps Sec: 197	92961000009	4	EACH	\$ 593.00	\$ 2,372.00
15	PLANT FACILITY OVERHAUL Manufacturer: Continental Power Serial No.: H76851, 52, 71, 72 Frame: SNV686P H.P.: 250 Volts Pri: 480 Amps Pri: 299 Type: DP RPM: 585 Volts Sec: 600 Amps Sec: 197	92961000010	4	EACH	\$ 3,359.00	\$ 13,436.00

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VENDOR: LONGO ELECTRICAL

LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
16	PLANT FACILITY REWIND Manufacturer: Continental Power Serial No: H76851, 52, 71, 72 Frame: SNV686P H.P.: 250 Volts Pri: 480 Amps Pri: 299 Type: DP RPM: 585 Volts Sec: 600 Amps Sec: 197	92961000011	4	EACH	\$ 1,620.00	\$ 6,480.00
17	PLANT FACILITY INSPECTION Manufacturer: U.S. Electrical Motors Frame: 5809P H.P. : 250 Volts: 460 Hertz: 60 Type: HVEI RPM: 600 Phase: 3	92961000012	6	EACH	\$ 625.00	\$ 3,750.00

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18	PLANT FACILITY OVERHAUL Manufacturer: U.S. Electrical Motors Frame: 5809P H.P.: 250 Volts: 460 Hertz: 60 Type: HVEI RPM: 600 Phase: 3	92961000013	6	EACH	\$ 3,468.00	\$ 20,808.00
19	PLANT FACILITY REWIND Manufacturer: U.S. Electrical Motors Frame: 5809P H.P.: 250 Volts: 460 Hertz: 60 Type: HVEI RPM: 600 Phase: 3	92961000014	6	EACH	\$ 1,620.00	\$ 9,720.00

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VENDOR: LONGO ELECTRICAL

LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
20	HACKENSACK PUMP STATION INSPECTION Manufacturer: TECO Serial No.: LXD703581, 2 Frame: SG5806 H.P.: 300 Volts: 460 Type: ASVAXX RPM: 1130 Phase: 330	92961000015	2	EACH	\$ 696.00	\$ 1,392.00
21	HACKENSACK PUMP STATION OVERHAUL Manufacturer: TECO Serial No.: LXD703581, 2 Frame: SG5806 H.P.: 300 Volts 460 Type: ASVAXX RPM: 1130 Phase: 330	92961000016	2	EACH	\$ 3,685.00	\$ 7,370.00

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22	HACKENSACK PUMP STATION REWIND Manufacturer: TECO Serial No.: LXD703581, 2 Frame: SG5806 H.P.: 300 Volts: 460 Type: ASVAXX RPM: 1130 Phase: 330	92961000017	2	EACH	\$ 1,729.00	\$ 3,458.00
23	HACKENSACK PUMP STATION INSPECTION Manufacturer: TECO Serial No.: LXD703591, 92, 93, 94 Frame: SGV5810 H.P.: 300 Volts: 460 Type: ASVAXX RPM: 1170 MAX (VAR.SPEED) Phase: 338	92961000018	4	EACH	\$ 642.00	\$ 2,568.00

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24	HACKENSACK PUMP STATION OVERHAUL Manufacturer: TECO Serial No.: LXD703591, 92, 93, 94 Frame: SGV5810 H.P.: 300 Volts: 460 Type: ASVAXX RPM: 1170 MAX (VAR.SPEED) Phase: 338	92961000019	4	EACH	\$ 3,685.00	\$ 14,740.00
25	HACKENSACK PUMP STATION REWIND Manufacturer: TECO Serial No.: LXD703591, 92, 93, 94 Frame: SGV5810 H.P.: 300 Volts: 460 Type: ASVAXX RPM: 1170 MAX (VAR.SPEED) Phase: 338	92961000020	4	EACH	\$ 1,729.00	\$ 6,916.00

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LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
25-A	HACKENSACK PUMP STATION INSPECTION Manufacturer: BALDOR Serial No.: A2111152083 Frame: L449LPH H.P.: 300 Volts: 460 Type: P RPM: 1190 MAX (VAR.SPEED) Phase: 340	92961000056	1	EACH	\$ 2,350.00	\$ 2,350.00
25-B	HACKENSACK PUMP STATION OVERHAUL Manufacturer: BALDOR Serial No.: A2111152083 Frame: L449LPH H.P.: 300 Volts: 460 Type: P RPM: 1190 MAX (VAR.SPEED) Phase: 340	92961000057	1	EACH	\$ 7,680.00	\$ 7,680.00

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VENDOR: LONGO ELECTRICAL

LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
25-C	HACKENSACK PUMP STATION REWIND Manufacturer: BALDOR Serial No.: A2111152083 Frame: L449LPH H.P.: 300 Volts: 460 Type: P RPM: 1190 MAX (VAR.SPEED) Phase: 340	92961000058	1	EACH	\$ 6,360.00	\$ 6,360.00
26	WEST NYACK PUMP STATION INSPECTION Manufacturer: U.S. Motors Serial No.: 6216/VB4V3100200R-1, 2 & 3 Frame: 445VP DP H.P.: 60 Volts: 460 Type: RVI RPM: 1190 Amps: 72	92961000021	3	EACH	\$ 109.00	\$ 327.00

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LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
27	WEST NYACK PUMP STATION OVERHAUL Manufacturer: U.S. Motors Serial No.: G66216/VB4V3100200R-1, 2 & 3 Frame: 445VP DP H.P.: 60 Volts: 460 Type: RVI RPM: 1190 Amps: 72	92961000022	3	EACH	\$ 979.00	\$ 2,937.00
28	WEST NYACK PUMP STATION REWIND Manufacturer: U.S. Motors Serial No.: G66216/VB4V3100200R-1, 2 & 3 Frame: 445VP DP H.P.: 60 Volts: 460 Type: RVI RPM: 1190 Amps: 72	92961000023	3	EACH	\$ 435.00	\$ 1,305.00

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LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
29	CHERRY LANE PUMP STATION INSPECTION Manufacturer: U.S. Motors Serial No.: X01W1350015R-1, 2, & 3 Frame: 403YPI H.P.: 125 Volts: 460 Type: RYI RPM: 1775 Amps: 146	92961000024	3	EACH	\$ 327.00	\$ 981.00
30	CHERRY LANE PUMP STATION OVERHAUL Manufacturer: U.S. Motors Serial No: X01W1350015R-1, 2, & 3 Frame: 403YPI H.P.: 125 Volts: 460 Type: RYI RPM: 1775 Amps: 146	92961000025	3	EACH	\$ 2,490.00	\$ 7,470.00

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VENDOR: LONGO ELECTRICAL

LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
31	CHERRY LANE PUMP STATION REWIND Manufacturer: U.S. Motors Serial No.: X01W1350015R-1, 2, & 3 Frame: 403YPI H.P.: 125 Volts: 460 Type: RYI RPM: 1775 Amps: 146	92961000026	3	EACH	\$ 1,087.00	\$ 3,261.00
32	PASCACK PUMP STATION INSPECTION Manufacturer: U.S. Motors Serial No.: X01W1350015R-1, 2, & 3 Frame: 404YPZ H.P.: 75 Volts: 460 Type: RVI RPM: 1785 Amps: 88	92961000027	3	EACH	\$ 109.00	\$ 327.00

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VENDOR: LONGO ELECTRICAL

LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
33	PASCACK PUMP STATION OVERHAUL Manufacturer: U.S. Motors Serial No.: X01W1350015R-1, 2, & 3 Frame: 404YPZ H.P.: 75 Volts: 460 Type: RVI RPM: 1785 Amps: 88	92961000028	3	EACH	\$ 1,087.00	\$ 3,261.00
34	PASCACK PUMP STATION REWIND Manufacturer: U.S. Motors Serial No.: X01W1350015R-1, 2, & 3 Frame: 404YPZ H.P.: 75 Volts: 460 Type: RVI RPM: 1785 Amps: 88	92961000029	3	EACH	\$ 544.00	\$ 1,632.00

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VENDOR: LONGO ELECTRICAL

LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
35	SADDLE RIVER PUMP STATION INSPECTION Manufacturer: Westinghouse Serial No.: 3S-70, 4S-70 Frame: 680P30 H.P.: 300 Volts: 460 Type: CWP RPM: 1172 Amps: 354	92961000030	3	EACH	\$ 642.00	\$ 1,926.00
36	SADDLE RIVER PUMP STATION OVERHAUL Manufacturer: Westinghouse Serial No.: 3S-70, 4S-70 Frame: 680P30 H.P.: 300 Volts: 460 Type: CWP RPM: 1172 Amps: 354	92961000031	3	EACH	\$ 3,577.00	\$ 10,731.00

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VENDOR: LONGO ELECTRICAL

LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
37	SADDLE RIVER PUMP STATION REWIND Manufacturer: Westinghouse Serial No.: 3S-70, 4S-70 Frame: 680P30 H.P.: 300 Volts: 460 Type: CWP RPM: 1172 Amps: 354	92961000032	3	EACH	\$ 1,729.00	\$ 5,187.00
38	SOUTH PASCACK PUMP STATION INSPECTION Manufacturer: U.S. Motors Serial No.: X01W1350015R-1, 2, & 3 Frame: 445VP H.P.: 200 Volts: 460 Type: RVI RPM: 1800 Amps: 250	92961000033	3	EACH	\$ 490.00	\$ 1,470.00

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VENDOR: LONGO ELECTRICAL

LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
39	SOUTH PASCACK PUMP STATION OVERHAUL Manufacturer: U.S. Motors Serial No.: X01W1350015R-1, 2, & 3 Frame: 445VP H.P.: 200 Volts: 460 Type: RVI RPM: 1800 Amps: 250	92961000034	3	EACH	\$ 2,707.00	\$ 8,121.00
40	SOUTH PASCACK PUMP STATION REWIND Manufacturer: U.S. Motors Serial No.: X01W1350015R-1, 2, & 3 Frame: 445VP H.P.: 200 Volts: 460 Type: RVI RPM: 1800 Amps: 250	92961000035	3	EACH	\$ 1,533.00	\$ 4,599.00

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VENDOR: LONGO ELECTRICAL

LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
41	NORTH PUMP STATION INSPECTION Manufacturer: U.S. Motors Serial No.: 866215/W04V3100196R-1, 2, 3 & 4 Frame: 445 VP H.P.: 125 Volts: 480 Type: RVI RPM: 1185 Amps: 148	92961000036	4	EACH	\$ 327.00	\$ 1,308.00
42	NORTH PUMP STATION OVERHAUL Manufacturer: U.S. Motors Serial No.: 866215/W04V3100196R-1, 2, 3 & 4 Frame: 445VP H.P.: 125 Volts: 480 Type: RVI RPM: 1185 Amps: 148	92961000037	4	EACH	\$ 2,011.00	\$ 8,044.00

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LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
43	NORTH PUMP STATION REWIND Manufacturer: U.S. Motors Serial No.: 866215/W04V3100196R-1, 2, 3 & 4 Frame: 445VP H.P.: 125 Volts: 480 Type: RVI RPM: 1185 Amps: 148	92961000038	4	EACH	\$ 1,196.00	\$ 4,784.00
44	UNION HILL PUMP STATION INSPECTION Manufacturer: Continental Electric Serial No.: H1742 A1, A2, A3 Frame: SS810 H.P.: 150 Volts: 460 Type: SWV445UP RPM: 1760 Amps: 172	92961000039	3	EACH	\$ 337.00	\$ 1,011.00

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45	UNION HILL PUMP STATION OVERHAUL Manufacturer: Continental Electric Serial No.: H1742 A1, A2, A3 Frame: SS810 H.P.: 150 Volts: 460 Type: SWV445UP RPM: 1760 Amps: 172	92961000040	3	EACH	\$ 2,381.00	\$ 7,143.00
46	UNION HILL PUMP STATION REWIND Manufacturer: Continental Electric Serial No.: H1742 A1, A2, A3 Frame: SS810 H.P.: 150 Volts: 460 Type: SWV445UP RPM: 1760 Amps: 172	92961000041	3	EACH	\$ 1,294.00	\$ 3,882.00

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LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
47	TALLMAN PUMP STATION INSPECTION Manufacturer: Continental Electric Serial No.: H1742 A4, A5, A6 Frame: SS810 H.P.: 125 Volts: 460 Type: SWV445UP RPM: 1175 Amps: 143	92961000042	4	EACH	\$ 245.00	\$ 980.00
48	TALLMAN PUMP STATION OVERHAUL Manufacturer: Continental Electric Serial No.: H1742 A4, A5, A6 Frame: SS810 H.P.: 125 Volts: 460 Type: SWV445UP RPM: 1175 Amps: 143	92961000043	4	EACH	\$ 2,120.00	\$ 8,480.00

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LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
49	TALLMAN PUMP STATION REWIND Manufacturer: Continental Electric Serial No.: H1742 A4, A5, A6 Frame: SS810 H.P.: 125 Volts: 460 Type: SWV445UP RPM: 1175 Amps: 143	92961000044	4	EACH	\$ 1,403.00	\$ 5,612.00
50	PINEBROOK PUMP STATION INSPECTION Manufacturer: U.S. Motors Serial No.: X01W1350014R-1, 2, & 3 Frame: 405VP2 H.P.: 100 Volts: 460 Type: RVI RPM: 1775 Amps: 117	92961000045	3	EACH	\$ 218.00	\$ 654.00

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LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
51	PINEBROOK PUMP STATION OVERHAUL Manufacturer: U.S. Motors Serial No.: X01W1350014R-1, 2, & 3 Frame: 405VP2 H.P.: 100 Volts: 460 Type: RVI RPM: 1775 Amps: 117	92961000046	3	EACH	\$ 1,631.00	\$ 4,893.00
52	PINEBROOK PUMP STATION REWIND Manufacturer: U.S. Motors Serial No.: X01W1350014R-1, 2, & 3 Frame: 405VP2 H.P.: 100 Volts: 460 Type: RVI RPM: 1775 Amps: 117	92961000047	3	EACH	\$ 870.00	\$ 2,610.00

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LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
53	TWIN LAKES PUMP STATION INSPECTION Manufacturer: U.S. Motors Serial No.: G66214/W04V3100182R-1, 2, & 3 Frame: 445VP DP H.P.: 250 Volts: 460 Type: RVI RPM: 1775 Amps: 292	92961000048	3	EACH	\$ 571.00	\$ 1,713.00
54	TWIN LAKES PUMP STATION OVERHAUL Manufacturer: U.S. Motors Serial No.: G66214/W04V3100182R-1, 2, & 3 Frame: 445VP DP H.P.: 250 Volts: 460 Type: RVI RPM: 1775 Amps: 292	92961000049	3	EACH	\$ 3,033.00	\$ 9,099.00
55	TWIN LAKES PUMP STATION REWIND Manufacturer: U.S. Motors	92961000050	3	EACH	\$ 1,522.00	\$ 4,566.00

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56	Extended Total for Inspection, Overhaul and Rewind SUM OF ITEM #'S 14 through 55			TOTAL		\$ 227,714.00
57	TOTAL EXTENDED BID FOR LABOR, MATERIAL, FIELD SERVICE, INSPECTION, OVERHAUL AND REWIND OF AC MOTORS -SUM OF ITEM #'S 13 AND 56			TOTAL		\$ 299,964.00

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**TITLE: Motors-AC Motor Inspection, Overhaul, Rewind,
Preventive Maintenance & Repair**

BID NUMBER: RFB-RC-2022-100

SPECIFICATIONS

1. SCOPE

- 1.1. A.C. motor inspection, overhaul, rewind, preventive maintenance and repair: ranging in size from fractional horsepower to 300 horsepower at Rockland County Sewer District #1 Treatment Plant, #4 Route 340, Orangeburg, NY, all Pump Stations and as required by the County of Rockland and various Rockland County agencies.
- 1.2. The total expenditures against the current contract commencing on 08/28/2017 through 07/26/2022 = \$291, .20.

2. CONTRACTOR REQUIREMENTS

2.1. Personnel/experience/equipment

- 2.1.1. Bidder shall employ qualified service technicians to perform the work specified.
- 2.2. The successful contractor shall have the ability to maintain an inventory of service and replacement parts for the units specified at their warehouse. Upon request, the contractor shall show evidence of inventory.
- 2.3. The contractor shall have a minimum of two (2) years performing similar work as specified. The Bidder shall complete and submit with their proposal the certificate of experience and the certificate of equipment forms.
 - 2.3.1. NOTE: The contact information provided on the certificate of experience should be reviewed for accuracy.
- 2.4. The Contractor is responsible for providing all required service parts, tools, equipment, and personnel necessary to perform all work in a professional safe, and workmanlike manner.
- 2.5. The district may inspect the facilities of the apparent low bidder prior to award to determine their capacity to perform this work.

3. WORK SCHEDULE

- 3.1. Preventive Maintenance and repair work shall be performed between the hours of 8:00 AM and 3:00 PM, Monday through Friday.
 - 3.1.1. No work is to be performed outside of these hours without approval from the authorized County of Rockland representative.

4. REPAIR AND SERVICE REQUIREMENTS

- 4.1. Contractor shall furnish labor, parts, service manuals, tools and equipment in performance of this service.
- 4.2. The Contractor shall provide a monitored 24-hour a day phone number and have a technician on site in response to an emergency call for service within 72 hours.
 - 4.2.1. **Emergencies**
 - 4.2.1.1. When contractor is informed by the owner that emergency repair service is required, the contractor must respond in an expeditious manner.

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4.2.1.2. A return call by contractor to determine the nature of the emergency shall be made to the RCSD #1 within 2 (two) hours.

4.2.1.3. The contractor shall have a service technician on site within 24 hours.

4.3. The Contractor shall only perform work which is required. Repairs shall be performed only with the approval of an authorized RCSD#1 representative. Should any repair work be performed without authorization, payment will not be made.

4.4. All completed service and repairs must meet with the approval of the authorized representative of the RCSD#1.

4.5. The Contractor shall provide operation and maintenance manuals for any new replacement components.

4.6. Preventive Maintenance & Repair work should be executed on the grounds of the RCSD#1 facility whenever practicable. This work includes changing brushes, dressing rings, bearing replacement, testing and motor cleaning.

4.6.1. All Sewer District work will be completed on a PM schedule derived by the Sewer District. Hourly rate, plus Mark-up allowance will apply to all preventive maintenance work.

4.6.2. Transportation and shipping charges are not permitted and will not be reimbursed.

4.6.3. Units shall not be removed from the facility without authorization by the RCSD#1

4.6.4. Should the Contractor and RCSD#1 agree that repair work to the motor would be better accomplished at the Contractor's facility, the Contractor shall protect the unit from damage during shipping to and from RCSD#1 facility. Transportation and shipping charges are not permitted and will not be reimbursed.

4.6.5. Within 48 hours of removing the unit from service, the contractor shall provide the RCSD#1 with a complete inspection report to include general inspection, recommended repair, itemized cost breakout of recommended repairs and repair parts not included in the scope of this contract and an estimated timeline for completion of repairs and return to service.

4.6.6. Upon the completion of the repair and re-installation of the unit, the contractor shall provide RCSD#1 with a written detailed report outlining the repairs made, parts provided, pre and post repair test results, observed deficiencies, repair costs and recommendations for future work.

4.7. Purchase order numbers will be issued by the Purchasing Department or a representative of the Sewer Department for all repair work.

4.7.1. All repair work must be guaranteed for one (1) year.

5. LABOR AND MATERIAL COSTS

5.1. All labor and materials shall be invoiced and paid, as bid, on the proposal pages.

5.2. Pricing submitted shall include FOB Destination. The County of Rockland will not reimburse for travel time or freight costs.

5.3. Detailed billings must be received by the County of Rockland within fifteen days after completion of each job.

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5.4. FIELD SERVICE: Vendor shall enter lump sum price for field service of motors between 250 and 300 HP.

5.4.1. Field Service shall include all labor, material and equipment to:

- 5.4.1.1. Disconnect and removal of 250-300 HP motors from pedestal
- 5.4.1.2. Transport to repair facility
- 5.4.1.3. Return repaired motor to facility
- 5.4.1.4. Re-Install motor
- 5.4.1.5. Re-Connect Motor

5.4.2. LABOR COSTS

5.4.2.1. The contractor shall be paid for each job authorized by the County of Rockland upon submission of properly executed invoices. Invoices shall be submitted according to the requirements and must specifically list:

- 5.4.2.1.1. Start time and completion time
- 5.4.2.1.2. Name of each employee with type of labor utilized
- 5.4.2.1.3. Total number of man-hours worked times hourly rate
- 5.4.2.1.4. Total labor charges

5.4.2.2. The Contractor's labor charges must correspond to the rates which he will supply with the bid. The bidder agrees and hereby certifies that all labor charges contained in the invoices and vouchers shall be only those that were required and necessary to complete the work.

5.4.2.3. Invoices for labor must be billed to the next quarter hour of actual time worked (example: 8:00 AM to 9:10 AM would be billed at 1 hour and 15 minutes). Invoices rounded to the next full hour will not be approved for payment.

5.4.3. MATERIAL COSTS

5.4.3.1. The invoices for payment must list specifically all parts and materials and cost to Bidder for each item. The County of Rockland will require verification of these costs by copy of the invoice as submitted to the contractor for payment. The bidder agrees and hereby certifies that all parts and materials which he purchases shall be at lowest price available at the time considering the prevailing conditions and circumstances for which it is required that the purchase be made. County of Rockland reserves the right to supply material when deemed in the best interest of the County of Rockland.

5.4.3.2. Documentation of material costs (invoices, etc.) of items greater than \$100 must be provided with Contractor's invoices.

5.4.4. MARK UP

5.4.4.1. The Contractor shall add a fixed percentage of the above described material charges to the invoice for payment. The percent mark-up must correspond to the figure entered in the proposal to this bid.

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5.4.5. PARTS FABRICATED OR MANUFACTURED

5.4.5.1. All labor and materials involved with the fabrication or manufacturing of parts necessary for repair shall be reimbursed according to the above requirements for material costs.

5.4.5.2. The Contractor shall submit a quote for all parts fabricated and/or manufactured. Work shall not be done without the approval of RCSD#1.

5.4.6. ADDITIONAL ITEMS

5.4.6.1. If the Contractor expects to incur any additional costs not specified in the above paragraphs, he must submit a list of those items and corresponding charges or schedule with his bid. There will be no additional charge for delivery or mileage. No other costs except those placed in the bid proposal at the time the bid is submitted shall be evaluated, considered or deemed acceptable charges by the County of Rockland. The Contractor further agrees that should it be determined by the County of Rockland that the Contractor is falsifying his invoices or partaking in fraudulent practices so as to reflect higher costs than actually incurred in the repair, this falsification of fraudulent practice shall be considered a material breach of the terms of the contract. Nothing herein shall be considered to limit the authority of the County of Rockland to prosecute any bidder or Contractor who violates the laws of the State of New York.

6. USE OF PREMISES

- 6.1. On or about the premises and adjacent areas, the Contractor shall ensure that all apparatus, storage of materials, and activities of workmen be confined to the limits indicated by law, ordinances, permits and the direction of the authorized County of Rockland representative, and shall not encumber or permit the premises or adjacent areas to be encumbered with such materials or apparatus.
- 6.2. The work site shall be kept in an orderly and safe fashion so as not to interfere with the progress of the work or the work of any other Contractor.
- 6.3. The Contractor shall be responsible for repairing and replacing anything damaged by his operations, within thirty (30) days after notification by the authorized County of Rockland representative that damage has occurred.
- 6.4. It will be the responsibility of the Contractor to report, to the authorized County of Rockland representative, any damages found prior to any work at this site.

7. CLEANING UP

- 7.1. The Contractor shall at all times keep the premises and adjacent areas free from accumulations of waste material or rubbish. At the completion of the work, he/she shall remove, from and about the premises, including adjacent areas, all rubbish, tools and surplus materials used for work and shall have the area "Broom Clean" and ready for use. In case of a dispute, County of Rockland may remove rubbish and clean up, then may charge the Contractor either by deduction of amounts unpaid to the Contractor, or by other means as determined to be fair and equitable by the authorized County of Rockland representative.

8. AWARD

- 8.1. Award shall be made in total to the lowest responsive, responsible bidder meeting the specifications.

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8.2. All quantities listed for labor and % markup are annual usage estimates. Actual quantities may be more or less depending on Rockland County requirements. NOTE: The quantities listed on the proposal pages for each of the motors identified indicate the total number of motors at each location (pump station).

9. **SERVICE SPECIFICATIONS**

9.1. **PURPOSE**

9.1.1. To describe the work scope required to perform inspection, repair, overhaul and preventive maintenance of A.C. electric motors.

9.1.2. **DEFINITIONS**

9.2.1.1.Preventive Maintenance: Are all tasks that can be performed on site with the motors in place, and will be billed on a time and material basis.

- 9.2.1.1.1. Cleaning
- 9.2.1.1.2. Replacement of brushes
- 9.2.1.1.3. Slip ring dressing
- 9.2.1.1.4. Lubrication

9.2.1.2.Inspections: Are performed in the vendors repair shop and require the removal of the unit. The inspections include all labor to perform electrical testing, disassembly, cleaning, and the complete mechanical inspection of all motor components and the compilation of written reports as outlined in the specifications.

9.2.1.3.Overhauls: Are performed in the vendors shop and require the removal of the unit. The overhauls include all labor, bearings, cleaning, restoration of all mechanical fits, corrections of any problems, testing and compilation of written reports as outlined in the specifications.

9.2.1.4.Motor Rewind: Are performed in the vendors shop and shall be the labor charges and all materials to perform a complete rewinding of the motor as outlined in the specifications.

9.2.1.5.Repairs: Are performed at the vendor's shop or at the RCSD#1 facility and shall be the labor charges and all materials to perform the repairs of the motor in accordance with the outlined specifications and work orders/reports approved by a RCSD#1 representative.

9.2.1.6.Transportation: Pick up motor(s) at the Rockland County Sewer District No. 1 Treatment facility or designated pump station and transport to repair facility via insured carrier. Repair facility shall be given twenty four (24) hours notice prior to required pick up time. Return inspected, overhauled motor(s) to the Rockland County Sewer District No. 1 treatment facility or designated pump station via insured carrier. There shall be no reimbursement for transportation costs.

9.2.1.7.Rigging (Field Service): Disconnect, remove motors of 250-300 HP from pedestals at pump stations and transport them to the repair facility – This includes reinstalling the repaired motor and re-connection.

10. **A.C. MOTORS**

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- 10.1. Initial Electrical Check: Motor shall be Megger Tested prior to disassembly. A megger test at 1000 volts for a period of one (1) minute shall be performed and a polarization index established for each phase.
- 10.2. Disassembly: The motor shall be carefully disassembled with special precautions taken to avoid damage to stator windings, shaft journals, rotor and mating part surfaces. The Repair Facility shall follow the manufacturer's recommended disassembly procedure. All as found dimensions, fits, and clearances shall be recorded as the motor is disassembled. Cleanings: The disassembled motor shall be washed initially by steam cleaning with an approved mild detergent, thoroughly rinsed with steam and hot water to remove all traces of cleaning compound and oven dried. Drying ovens shall be the circulating type with close temperature control. The drying cycle shall be of sufficient duration to insure that the unit attains the highest possible insulation resistance. The maximum temperature in each case shall not exceed that imposed by limitation of the insulating materials.
- 10.3. Test and Inspections: Perform the following tests and inspections:
- 10.3.1. Inspect A.C. stator coil bracing, coil support looseness in slot and end turns, loose wedges or fillers, end turn insulation and condition of windings for obvious defects.
 - 10.3.2. Phase balance check each phase the unassembled unit for phase current.
 - 10.3.3. Perform a continuity check on motors equipped with heaters and a circuit integrity check on motors equipped with thermocouples, RTD's and thermal protection devices.
 - 10.3.4. Inspect shaft for excessive wear, runout, and damaged keyways.
 - 10.3.5. Inspect bearings for signs of looseness, skating, overheating, overloading, fretting, etc.
 - 10.3.6. Inspect bearing cartridges for proper bearing fits.
 - 10.3.7. Inspect rotor for obvious mechanical defects, heat discoloration and evidence of rubbing.

11. PREVENTIVE MAINTENANCE

- 11.1. The Sewer District plans to perform preventive maintenance on all the motors listed in this bid on a defined schedule. Preventive maintenance shall be schedule by the Sewer District's authorized representative.
- 11.2. Record both the ambient and motor frame temperatures.
- 11.3. Measure and record the vibration of the motors to establish a point of reference. Determine the source of excessive vibration (Misalignment, loose footing, electrical or mechanical unbalance, etc.).
- 11.4. Check and record the voltage and current to each phase of the motor.
- 11.5. Remove the motor from service. Perform a 500-volt DC megger while the winding is still hot.
- 11.6. Wipe, brush, vacuum or blow accumulated dirt from the frame and air passages of the motor. Remove black spots, carbon dust, and copper foil on the collector rings and brushes. Check the tightness of the brushes.
- 11.7. Check for signs of corrosion and internal deterioration. Open the conduit box and check for deteriorating insulation.

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- 11.8. Lubricate the bearings only when scheduled or if they are noisy or running hot. Do NOT over-lubricate.
- 11.9. Perform a second 500-volt DC megger while the winding is cool. Compare the hot and the cold winding megger results. Note any differences and indicate the rate of insulation deterioration.
- 11.10. Prepare a written report that includes all documentation (pictures and remarks) and recommendations signed by the authorized field service worker. Submit the report to Rockland County Sewer District #1 by fax or email.

12. INITIAL INSPECTION REPORT

- 12.1. The repair facility shall prepare and initial inspection report outlining all component dimensions, bearing fits, clearances and electrical test results. The report shall include an itemized listing of all recommended repair work and prices.
- 12.2. Notify Rockland County authorized representative for an in-shop inspection for evaluation of the initial inspection report and recommended repair work. No further motor work shall be performed until completion of the in-shop inspection and written authorization by Rockland County representative is received to proceed with repair and reassembly.

13. GENERAL MOTOR REPAIR REQUIREMENTS

- 13.1. Bearings: Bearings shall be removed and inspected for defects and dimensional sizes. It is imperative that strict cleanliness be observed during disassembly and assembly of bearings. New bearings, if required, shall remain in their original packing until immediately before mounting. Old bearings removed shall be wrapped in a protective covering and placed in a safe location to prevent damage. The bearings and housings must be carefully cleaned to remove all traces of metal chips, filings, and any other foreign matter. The bearings shall be installed in accordance with the recommended mounting procedure of the bearing manufacturer. Replaced bearings shall be returned to the customer with motor. Motor shall indicate visibly, by tag, if bearings are required to be lubricated by personnel upon arrival.
- 13.2. Stator, Armature and Field Windings: Windings shall be inspected for loose banding, blocking, wedges and tying material. Minor repairs shall be performed to restore windings as per original construction. Windings shall be steam cleaned, dried and receive two dip coatings of varnish and baked.
- 13.3. Coil Bracing and Wedges: Coil ends will, if found necessary, be braced to withstand stresses due to starting and running currents. Coil supporting rings, where used, will be insulated and accurately fitted to provide rigid support of the coil ends. If it were found necessary to replace wedges, then polyester glass or textile wedges will be used to secure coils firmly in the slots.
- 13.4. Leads: If it is found necessary to replace existing leads, new leads shall be installed after all impregnations are completed to avoid cracking of the lead insulation during baking cycles. Lead wire or cables should be equivalent or exceed to those removed in flexibility, carrying capacity and insulation value. The leads shall be brazed to the stator winding connections. A record of lead markings and their relationship to winding configuration shall be made by the repair shop on the motor as received. The repaired motor lead shall be identified with permanent marking tags, (Non-Corrosive) using the same marking symbols as originally received.

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- 13.5. Brush Holders and Brushes: Brush holders shall be cleaned to prevent contamination of the commutator brushes. All holders shall be free working. Brush springs shall be checked for proven tension. Brushes shall be replaced. Commutator shall be checked for concentricity, dressed and polished.
- 13.6. Rotor-Armature Balancing: The rotor or armature shall be dynamically balanced in accordance with the original manufacturer's recommendations to insure vibration free service. The rotor or armature shall be, prior to balancing lathe checked, journals measured and all measurements which are required to insure motor design tolerances are within acceptable limits. Rotor or armature shall be balanced only after being thoroughly cleaned.
- 13.7. Reassembly: The motor shall be reassembled as per originally received using the manufacturer's assembly instructions exactly and without exception.
- 13.8. Testing: The motor shall be tested electrically and mechanically after assembly. The repair facility shall give two days notice to Rockland County before scheduled testing. Rockland County reserves the right to witness all testing. The tests shall include the following as applied to A.C. motors:
- 13.8.1. Dielectric Test - Windings will be subjected to a high potential test 150% rated voltage plus 1000 volts for a period of one minute before and after Running Test.
- 13.8.2. Megger Test - A megger reading at 1000 volts for one minute before and after Running Test - Minimum megger reading must be equal to the rated machine line-to-line voltage in kV plus 1 megohm. NOTE: A polarization Index must be established.
- 13.8.3. Running Test - Motor shall be checked for direction of rotation, vibration and bearing temperature. The length of time for the Running Test shall be a minimum of thirty minutes after bearing temperature has stabilized. Repair shop will supply customer with vibration chart recording of test run and Bearing Temperature Record.
- 13.8.4. Air Gap - Air gap shall be checked for length, variation with rotation and axial alignment.
- 13.8.5. Surge Comparison Test - Each phase shall be surge tested.
- 13.9. Final Reports: A final report documenting all motor initial and final electrical tests, inspections, balancing and component clearances will be submitted at time of motor return. Failure to provide report will delay invoice payment.
- 13.10. Finishing: The exterior of the repaired motor shall be painted with an approved paint manufactured by Keeler and Long or Conlux. Color shall be selected at time of motor inspection.
- 13.11. Nameplates: The original motor nameplates shall be clean and legible. The repair facility shall furnish a stainless steel nameplate indicating facility name, location, date of overhaul and bearing manufacturer and type if new bearings are installed. The nameplate shall be affixed to the motor body directly above, below or on side of the manufacturer's nameplate.
- 13.12. Guarantee: The repair facility shall guarantee all work performed free of material and labor defects for a period of one year from time of motor return to service. The repair facility shall be responsible for all removal, transportation, troubleshooting, and reinstallation costs which may be incurred in the county due to repairs under this item.

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14. PRICE ADJUSTMENT

- 14.1 The County recognizes this product or service has a price component that may have a commodity with changing costs. The Contractor/Supplier may request a Price Adjustment no more frequently than once each quarter (3-month period).

A Price Adjustment request must be made in writing and include the reason for the request, documentation supporting the request (ie, commodity increases), the current pricing, and the requested revised pricing.

The County will review the Price Adjustment request. If the Price Adjustment is deemed reasonable the Price Adjustment request will be accepted by written acknowledgement. If the request is not accepted the County may entirely reject the request or may counter with revised pricing. In either case the County will provide a written explanation in support of the decision.

The Director of Purchasing may use available indexes (e.g. CPI or PPI) to determine if the requested Price Adjustment is reasonable. Typically, a Price Adjustment that exceeds 5% will not be approved unless very unusual and significant changes have occurred in the industry.

In the event industry costs decline, the County shall have the right to receive, from the Contractor, a reasonable reduction in prices/pricing that reflect such cost changes in the industry. The County will make a written request to the Contractor for a Price Adjustment in writing with supporting documentation.