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**RFP 2021-17**

**REQUEST FOR PROPOSALS  
FOR THE  
OPERATION AND MAINTENANCE OF THE MATERIALS RECOVERY FACILITY  
HILLBURN, NEW YORK**

**DATED OCTOBER 15, 2021**

**TO: RECIPIENTS OF THE REQUEST FOR PROPOSALS**

**FROM: ROCKLAND COUNTY SOLID WASTE MANAGEMENT AUTHORITY  
d/b/a ROCKLAND GREEN**

**DATE: JANUARY 5, 2022**

**SUBJECT: ADDENDUM NUMBER 4**

This Addendum Number 4 shall be part of Request for Proposals No. 2021-17 for Operation and Maintenance of the Materials Recovery Facility in Hillburn, New York issued by the Rockland County Solid Waste Management Authority d/b/a Rockland Green (hereinafter “Rockland Green”) on October 15, 2021, as amended by Addendum 1 issued on November 12, 2021, Addendum 2 issued on November 17, 2021 and Addendum 3 issued on December 17, 2021 (the “RFP”).

This Addendum Number 4 provides responses to clarification questions from potential Proposers.

**I. CLARIFICATION QUESTIONS AND RESPONSES**

**QUESTION #1** How are you determining the recovery rates of each commodity? [Pg. 6, RFP]

**Response:** Prior to conducting the DSR Equipment System performance test, the Equipment Contractor will prepare the proposed test protocol for review and approval by the Engineer and the Owner. The Operator will have an opportunity

to comment on the protocol and the Operator will be operating the DSR Processing Equipment during the testing. The protocol will identify the means and methods that the Equipment Contractor will use to determine the recovery rate of commodities, consistent with Section 01350 of the Technical Specifications included in the contract of the Equipment Contractor, see attached. The Equipment Contractor is required to demonstrate that all minimum specifications are met in accordance with the approved test protocols, subject to the Engineer's verification and acceptance.

**QUESTION #2**

What is the plan if the Glass Bunkers are at capacity? Is there a limit to the quantity of glass stored on-site? [Pg. 6, RFP]

**Response:**

Rockland Green is responsible for marketing the glass. The Operator is responsible for loading the glass onto the trailers. If bunkers are full, and if following approval by Rockland Green, the Operator will be permitted to stockpile glass along the south-east exterior building wall in a manner that does not impede traffic flow. The Operator will be responsible for managing onsite inventory and coordinating with Rockland Green's trailers to ship the glass from the Facility.

**QUESTION #3**

Is the Contractor able to subcontract the hauling of the residue? [Pg.10, RFP]

**Response:**

Yes. The Operator will be permitted to subcontract the hauling of the residue to the Transfer Station. Rockland Green will amend the language on Page 10 of the RFP to clarify this concept. Subcontractors will be required to be pre-approved by Rockland Green.

**QUESTION #4**

Do receiving hours need to be the same as operation hours?

**Response:**

No. Refer to question #10 in Addendum No. 3. The Facility must be capable of receiving materials at all times that Rockland Green's truck scale is operated.

**QUESTION #5A**

What are the minimum requirements for the Staffing Plan?

**Response:**

The Staffing Plan must satisfy the required quantity of sorters identified on page 15 of Appendix E of the RFP. All sorters provided must meet industry standards pertaining to frequency and accuracy of picks. Furthermore, the Operator is to identify its proposed staffing complement for functions to effectively operate the facility (e.g., managerial, equipment, maintenance, sorting, administrative, etc.).

The Operator is required to provide all necessary manpower, supplies and staffing as needed to operate and maintain the equipment during the times that the Equipment Contractor is performing the commissioning and acceptance testing.

**QUESTION #5B** If the Fiber Line requires 10 people and the container line requires 8 people, are we required to have 18 people on site every day or can we staff the facility with only the necessary headcount to run that line? [Pg. 12, RFP]

**Response:** The quantity of sorters working on each processing line must match the minimum requirement (identified on page 15 of Appendix E of the RFP) when each processing line is being operated. Variations would be handled by “Change Management” as further described in Question # 6 below.

**QUESTION #5C** If volume drops below a certain threshold, will labor requirements adjust accordingly?

**Response:** Proposers are to prepare their proposal based on the RFP and its requirements inclusive of staffing (refer to question 5A above). The operating hours for processing material are to be determined by the Operator and must be approved by Rockland Green.

**QUESTION #6** If additional staffing is needed post testing period- is there ability to adjust Staffing Plan, expectations, and pricing structure?

**Response:** Refer to the response to question 5A above. The Service Agreement contains “Change Management” provisions for which both Rockland Green and the Operator can propose and discuss issues such as staffing requirements. “Change Management” is a detailed protocol set forth in the Service Agreement to be utilized by the parties to address any changes or modifications to the provisions of the Service Agreement requested by either party. Should any “change” be approved, it will be done so in writing and the Operator’s Operations and Maintenance Plan will be updated accordingly. The Service Agreement will be provided to Proposers in the form of a future addendum.

During the Pre-Interim & Interim Periods, the Equipment Contractor will be required to provide staffing; the particulars of how many and of what skill set will be determined during this period. The Staffing Plan during Pre-Interim & Interim Periods is not expected to be the same as during post-acceptance / start of commercial operations except during Acceptance test periods. Proposers are to submit their proposed staffing plan as part of their proposal covering both the Pre-Interim & Interim Periods and start of commercial operations. During the Pre-Interim & Interim Periods, but prior to commercial operations, it is mutually agreed between Rockland Green and the Operator that the Staffing Plan can be adjusted and that this will be agreed to in writing and incorporated into the Operator’s Operation and Maintenance Plan.

**QUESTION #7** Will Rockland Green accept alternate pricing schedules based on tiered tonnage volumes?

**Response:** No. Proposers are to submit their Proposals utilizing the Price Proposal Forms set forth in Appendix H of the RFP.

**QUESTION #8** Please explain and clarify how the payment of commodity values from the mill will work? [Pg. 14, RFP] a. How will charges for contamination be handled?

**Response:** Collection of payments will be the responsibility of the Operator. All payments will be made to Rockland Green's account. Rockland Green will pay the Operator the share of revenue identified in the RFP based upon the date upon which payments are deposited by the mill into Rockland Green's account. The Marketing Plan to be proposed by the Operator will contain the administrative details to address this further.

Any downgrades or charges imposed by a mill are to be immediately reported to Rockland Green and it will be the responsibility of the Operator to identify the cause and implement measures to effectively remedy the issue. The Operator is responsible for any shortfall in revenues to Rockland Green as a result of any downgrades or charges imposed by a mill to the extent that such downgrades or charges are due to the fault of the Operator.

**QUESTION #9** What are the contamination parameters for inbound material? [Appendix G-2, RFP]

**Response:** This information will be provided in a separate addendum to the RFP.

**QUESTION #10** If any single commodity value drops below \$0 can you ensure no penalties to the Operator?

**Response:** Yes. There will be no penalties to the Operator as long as the Operator has complied with all applicable duties and obligations set forth in the Service Agreement in connection with the processing, production and marketing of the commodity, including but not limited to the Marketing Plan, and the sub-zero dollar price is due to no fault of the Operator. This applies to all commodities other than glass. Rockland Green will be conducting a separate procurement for the processing and marketing of glass.

**QUESTION #11** If equipment/ installation contractor doesn't meet expected timeline, will Rockland Green still be responsible for paying Contractor?

**Response:** Yes, based on the Rockland Green approved schedule for the Operator's responsibilities and so long as the failure is not due to Operator fault.

**QUESTION #12** Please clarify the difference of Pre-Interim and Interim periods- will all equipment be installed and ready for shake down during the Pre-Interim period or will equipment still be in installation phase?

**Response:** During Pre-Interim period, the equipment will be in the installation phase and will not be operable. The Interim period shall begin when the Equipment Contractor is ready to commence startup and commissioning to ultimately achieve a successful Equipment Shakedown Test. After the successful completion of the Equipment Performance Test (100% capacity) and Equipment Acceptance, the Interim Period will end. During the Interim period, Operator shall operate the equipment in accordance with the Equipment Contractor's approved schedule in coordination with Rockland Green and per the approved O&M Plan.

**QUESTION #13** Please clarify the operational hours- 5days/week (page 6) or 6days/week (page 13)?

**Response:** Please refer to question #10 in Addendum No. 3.

**QUESTION #14** After the Acceptance Testing, what is the testing frequency for the performance of the equipment? And: what are those procedures? [Appendix P, RFP]

**Response:** After Acceptance Testing, no additional formal performance tests are anticipated during the Term of the Contract. However, based on Rockland Green and the Engineer's review of the Operator's operating performance during the Term of the Contract, ad hoc tests may be requested or directed (acting reasonably) for which the Operator will fully comply with such requests.

**QUESTION #15** What is the allowable Tip Floor Inventory? Clear at end day or over the course of (3) days in a week? a. Can you clarify the difference between the LD's & Operator Guarantee [Appendix P - 3, RFP]

**Response:** The Tipping Floor Overnight Storage Guarantee set forth in Section 9 of Appendix P of the RFP (Performance Guarantees) currently provides that the Operator shall guarantee that at the end of each day, no more than 20 tons of Commingled Containers and no more than 30 tons of Fiber (inclusive of any and all fiber streams combined) shall be present on the tipping floor. Appendix G of the RFP (Liquidated Damages) provides that liquidated damages will be assessed if the Operator fails to maintain the tip floor inventory to less than 30, or 20 tons as appropriate, for more than three (3) Days in any week during any month. These provisions are intended to encourage daily management of the tipping floor material so as to prevent overflow or bulging of material outside of the building. In order to make the Tipping Floor Overnight Storage Guarantee consistent with the associated Liquidated Damage, Rockland Green will modify the Tipping Floor Overnight Storage Guarantee from a daily requirement to one in which the Operator will guarantee not to exceed the appropriate daily tip floor inventory for more than three (3) Days in any week during the month.

**QUESTION #16** Could Rockland Green provide a required equipment list of what will need to be on-site? [O+M]

**Response:** See attached Appendix 2 of the Agreement which identifies a list of items to be provided by the Operator. This list is not exhaustive.

**QUESTION #17** Is the Contractor responsible for loading bags, pulling totes, or any of services outside the scope of running the operation? [O+M]

**Response:** The Operator will be required to perform all services necessary to operate the Facility, including the services identified in the question.

**QUESTION #18** Could Rockland Green provide the equipment contractor's estimate of KWH electrical usage? [Price Proposal Form 3, RFP]

**Response:** See attached Attachment 3. This motor list contains an estimated electrical usage of the equipment system as proposed by the Equipment Contractor. Rockland Green does not guarantee these estimates.

**QUESTION #19** Will the AC system be Electric or Natural Gas? Can you provide the equipment contractor's estimate of KWH electrical usage? [Price Proposal Form 3, RFP]

**Response:** No sort rooms will be provided and there will not be air conditioning in Areas 1, 2, 4, 5, and 6. Refer to Appendix B of the RFP. Air conditioning will be provided in Area 3. The air conditioning system in Area 3 is electric.

**QUESTION #20** Are we allowed to procure material outside of Rockland Green? If so, at what rate? [O+M]

**Response:** No. As part of this RFP, Rockland Green is not seeking Proposals to provide outside material or "merchant material" to be procured and/or delivered to the Facility by the Operator.

**QUESTION #21** Does Rockland Green own roll-off containers for residue or is it responsibility of the contractor to provide them? a. If responsibility of Contractor- how many are needed? [O+M]

**Response:** No. Operator is to provide all residue roll off compactor boxes and/or containers and include this as part of their Operations and Maintenance Plan (and proposal price)

**QUESTION #22** Proposal Content on pg. 29 conflicts with information in support pages 30-25

**Response:** Proposers will be required to submit their Proposals in the order set forth in the Proposal Content section of the RFP on page 29 and Rockland Green will amend pages 30-35 as appropriate in a future addendum.

**QUESTION #23** How does Rockland Green anticipate EPR impacting the operations and marketing of material?

**Response:** The draft legislation to implement Extended Producer Responsibility is currently being considered by the New York State Legislature. If EPR should become law in the State of New York it will be handled as an Uncontrollable Circumstance and Change in Law as defined in Appendix A of the RFP and further described in the Term Sheet set forth as Appendix C of the RFP.

**QUESTION #24** Is there an expectation that the contractor provides a site-specific marketing/engagement resource?

**Response:** Rockland Green will be responsible for drafting and producing all promotional and educational materials. The Operator will be required to cooperate with Rockland Green in connection with its education outreach efforts as they relate to the operation of the Facility. Refer to page 16 of the RFP, section 'r', "Education Outreach" for additional information relating to this issue. Please note that Rockland Green is deleting the requirement, in the first sentence of the Education Outreach section, for the Operator to prepare an Education Plan as part of its Operation and Maintenance Plan.

**QUESTION #25** And what are the expectations for that resource?

**Response:** Refer to the response to question #24, above.

**QUESTION #26** Will the contractor be responsible for coordinating and conducting tours?

**Response:** The Facility is owned by Rockland Green and Rockland Green will be directly involved with the coordination and conduction of all tours. Rockland Green will provide the Operator with advance notice of when tours are scheduled and if desired, request, and/or require, the Operator to participate. The Operator will not coordinate or conduct any tour of the Facility without the expressed written permission of Rockland Green. Where written permission by Rockland Green is granted to the Operator, Rockland Green staff will be fully engaged in the coordinator and execution, unless otherwise advised in writing.

**QUESTION #27** Could Rockland Green please provide a copy of the service agreement?

**Response:** As indicated in Question #24 of Addendum Number 3, Rockland Green plans to issue the draft Service Agreement by addendum with sufficient time for potential Proposers to review it and submit clarification questions. Rockland Green will respond to such questions three (3) weeks prior to the Proposal submission date so that Proposers will be able to provide comments to the draft Service Agreement, if any, as part of their Proposal submissions.

**QUESTION #28** What triggers the guaranty requirement, for example, is there an exemption where the financials of the bidder are consolidated with a publicly traded parent, such is the case here?

**Response:** As indicated in Question #26 of Addendum Number 3, the Guaranty Agreement is required for a Proposer that is a subsidiary of another company which is using its parent company to meet the financial qualifications of this RFP. Rockland Green's requirement of a Guaranty Agreement will depend on the corporate structure and financial strength of the Proposer.

**QUESTION #29** How does Rockland Green expect to resolve disputes?

**Response:** This will be covered in the Service Agreement to be provided in a future addendum.

**QUESTION #30** Could Rockland Green provide prevailing wage rate requirements for employees

**Response:** No. Please refer to the response to Question #22 of Addendum No. 3 regarding this issue.

#### ATTACHMENTS

Attachment 1: Equipment Specification Section 01350

Attachment 2: Items to be Supplied by Operator

Attachment 3: Equipment Contractor Motor List



**Attachment 1**  
**Equipment Specification Section 01350**

**ROCKLAND COUNTY, NY MATERIAL RECOVERY FACILITY  
DUAL STREAM PROCESSING SYSTEM DESIGN-BUILD**

**TECHNICAL SPECIFICATIONS  
SECTION 01350 – STARTUP, TESTING AND TRAINING**

**PART 1 – GENERAL DESCRIPTION**

**1.1 PRETEST RESPONSIBILITIES**

- A. Prior to commencing functional and performance testing of the DSR Processing System provided by the Equipment Contractor as described under this Section, the Equipment Contractor shall have first satisfied the following requirements:
1. Completed the installation of all equipment, materials, systems and accessories, including all electrical wiring and controls for the DSR Processing System included under this Contract.
  2. Prepared, submitted and received the Owner's approval of Equipment Contractor's proposed test protocols and procedures. Owner's approval must be received by the Equipment Contractor prior to the Equipment Contractor's notifying Owner of request to initiate testing.
  3. Prepared, submitted and received Owner's approval of the Equipment Contractor's O&M Manual. Owner's approval must be received prior to the Equipment Contractor's notifying Owner of request to initiate testing.
  4. Notified the Owner and the Engineer thirty (30) days in advance of each required test which the Equipment Contractor proposes to initiate and undertake.

**1.2 OBJECTIVES**

- A. The objectives of testing the equipment furnished and installed under this Contract are:
1. To demonstrate that the equipment has been installed properly, operates consistent with the manufacturer's requirements and the Contract Documents, and functionally interrelates with the other equipment installed under these Contract Documents.
  2. To introduce, familiarize and train the Owner's assigned personnel in the proper operation and maintenance of the installed equipment.
  3. To demonstrate that the system can receive and feed, as well as selectively distribute, separate and beneficiate material in accordance with the Contract Documents.
- B. The DSR Processing System shall meet or exceed the Minimum Performance Requirements as specified in these Contract Documents.

**1.3 RESPONSIBILITIES**

- A. Equipment Contractor Responsibilities: Under this Section, the Equipment Contractor shall be responsible for the following:
1. Provide all labor, supervision, equipment and materials to satisfy the requirements, fulfill the objectives and meet his responsibilities to successfully complete the Testing described herein.

2. Equipment Supplier to provide additional supervision during the startup, testing and training phase of the Project.
  3. Demonstrate that all installed DSR Processing System equipment is in compliance with the Contract Documents. This includes:
    - a. Minimum Performance Requirements
    - b. Materials of Construction
    - c. Drives
    - d. Speeds
    - e. Lubrication
    - f. Electrical Controls, Interlocks and Instrumentation
    - g. Hoppers, Skirts, Spill Plates and Discharge Chutes contain material and residue flows without spillage.
  3. Demonstrate the satisfactory installation and performance of all electrical, instrumentation and controls installed under this Contract.
  4. Train Owner's designated management, operations and maintenance personnel in the proper operation and maintenance of the DSR Processing System.
  5. Review and compare the Equipment Contractor's preliminary approved O&M Manual with actual conditions experienced during Testing. To the extent that revisions are found to be necessary, the Equipment Contractor shall be responsible for making such changes to the O&M Manual to reflect such actual conditions.
  6. Develop and submit to the Engineer for approval all startup and training schedules, Test protocols, Test schedules and Test material requirements for performance of all startup, training and Testing requirements as discussed in this Specification Section.
  7. The Equipment Contractor shall provide the services of skilled and experienced representatives of each manufacturer supplying equipment under this Contract for such periods, as satisfactory to the Owner, are essential for the proper and satisfactory installation and testing of the equipment, and training of the Owner's personnel in its use. In certain instances, particular specification sections may indicate the minimum number of visits and/or hours required to comply with the intent of the specifications regarding services of manufacturer's representatives.
- B. Owner's Responsibilities: Under this Section, the Owner shall be responsible for the following:
1. Provide all materials feedstock to the Project in accordance with the Equipment Contractor's written notifications to the Owner.
  2. Provide designated management personnel with whom the Equipment Contractor can coordinate Testing Programs.
  3. Provide sufficient operating personnel as required to meet Equipment Contractor's Testing Schedule, including material sorters capable of meeting generally accepted good industry standard pick rates
  4. Provide for removal of beneficiated materials and residue.
  5. Provide electricity, light and heat during hours of Testing.

#### 1.4 EQUIPMENT START-UP TEST (NO-LOAD TEST)

- A. With the Engineer's approval and as soon as is possible and feasible after permanent installation, all conveyors and equipment, individually or as a group, shall be powered and operated under the full range of operating conditions in the unloaded mode, unless otherwise specified. Safety, interlocks, instrumentation and control switches shall be proven at this time. The Equipment Contractor shall furnish electrical connections and controls, lubricants and other materials, instruments, and all labor needed for the initial start-up testing program. The Equipment Contractor shall submit a protocol for approval with inspection data sheets for each piece of equipment.
- B. For all processing equipment including conveyors, screens, optical sorters, robotics, magnets, blowers, eddy current separators, crushers, trommels, balers, compactors and control panels the Equipment Contractor shall include and provide as part of the Contract Price, the services of the manufacturer's factory representative (non-technical sales representatives unqualified or unfamiliar with the intricate design and operation of the equipment item are unacceptable to the Owner) of the equipment being tested who shall be present during this initial test.
- C. All processing equipment shall be operated as a process, not individually, for not less than eight (8) hours, and under such variable operating conditions as required by the manufacturer's representative for the manufacturer to warrant in writing to the Equipment Contractor and the Owner that his equipment is properly installed, performs as required under the conditions specified in these Contact Documents and is free from defects such as overheating, overloading and undue vibration.
- D. The manufacturer's representative or the Equipment Contractor shall determine motor power draw while operating under the above conditions. The Equipment Contractor, at his expense, shall make all necessary changes, adjustments and replacement as required in order to obtain the required manufacturer written warranty as specified in the contract.
- E. The successful operation of an equipment item during this test phase shall not constitute Final Acceptance of the equipment item by the Owner. Until the equipment has performed satisfactorily during the Equipment Performance Test described below in Section 1.6, Final Acceptance by the Owner shall not be considered.

#### 1.5 EQUIPMENT SHAKEDOWN TEST (LOAD TEST)

Prior to the Equipment Performance Test, the Equipment Shakedown Test shall be performed as described herein. The system installation work shall be complete, equipment shakedown shall be complete and the system shall be tested for a minimum of 13 run hours (over two (2), 6.5 run hours shifts per day) at a minimum of 75 percent capacity to demonstrate performance efficiencies of individual components for the Equipment Shakedown Test.

Equipment throughput capacity for the purpose of this test shall be defined as 22.5 TPH for the Residential Fiber System and 9 TPH for Commingled Container System.

- A. The Equipment Contractor's personnel shall begin the Shakedown Test under loaded conditions upon written certification that the Equipment Start-up Test has been completed and as a trial run before the Equipment Performance Test. The Equipment Contractor shall include in the Contract Price the costs of the Equipment Shakedown Test and Owner's personnel training.
- B. To prove the performance of each piece of equipment, the Owner shall provide feedstock in quantities requested by the Equipment Contractor.

- C. Equipment to be tested shall be activated from the Control Panel, or at each equipment location and adjusted to accept feed material consistent with the capacity requirements of this Specification section.
- D. During the Equipment Shakedown Test, the Owner shall supply sufficient manpower, mobile equipment and storage containers required to move and remove materials. All processed materials shall become the property of the Owner. Likewise, all residue material resulting from the process shall be disposed of by the Owner.
- E. During the Equipment Shakedown Test, the Equipment Contractor shall train and instruct key personnel provided and identified by the Owner in equipment operation, performance and maintenance.
- F. In addition to the Owner supplied manpower as hereinbefore stated under this Subsection, the Equipment Contractor shall also furnish a team of personnel consisting of his/her own personnel and factory representatives of the individual equipment items to operate the equipment. The Equipment Contractor's Team shall include servicemen, instructors, mechanics and electricians to maintain all equipment supplied and installed under this Contract during the Equipment Shakedown Test. The Equipment Contractor shall also furnish lubricants and all other materials, equipment and field instruments necessary for the shakedown of the equipment and accessories furnished installed under this Contract.
- G. In case of failure of equipment to perform due to any cause whatsoever, all defective parts shall be replaced or corrected by the Equipment Contractor at his expense.
- H. Equipment shall be considered meeting performance requirements when it successfully demonstrates the ability to process material as required by the Contract Documents when fed specified material at or above specified capacity.
- I. The successful completion of the Equipment Shakedown Test for each piece of equipment and the overall DSR Processing System shall constitute Substantial Completion.
- J. The successful Equipment Shakedown Test for each piece of equipment and the overall DSR Processing System shall not constitute acceptance of the Project. Until the equipment has performed satisfactorily during the Equipment Performance Test, Final Acceptance shall not be considered.
- K. All warranties on the processing equipment shall not start until the date of Final Acceptance.

## 1.6 EQUIPMENT PERFORMANCE TEST

- A. After the Equipment Shakedown Test is successfully completed, and on a mutually agreeable date that the equipment and the process system is properly working to the satisfaction of the Engineer, the Equipment Contractor shall perform an Equipment Performance Test. This Test shall be supervised by the Equipment Contractor and witnessed by the Engineer. The Owner shall provide material delivery, material removal, and the necessary Plant management, operating and maintenance personnel based upon the Equipment Contractor's submitted Test Protocol and Test Schedule.
- B. The purpose of the Equipment Performance Test is to demonstrate, under actual Project capacity throughput conditions, the compliance of all equipment and accessories under this Contract with the requirements of the Contract Documents. The Equipment Contractor shall include in the Contract Price the costs of performing the Equipment Performance Test.

- C. Unless otherwise directed by the Owner, the Test shall consist of operating the equipment at Project Capacity and the approximate material composition. Feedstock shall be provided by the Owner to the Equipment Contractor in the proportions received by the Owner as part of normal operations. The amount of materials to be processed shall be as normally received by the Owner or the Owner's supplier of materials.
- D. The Equipment Performance Test shall be conducted over a five (5) Test Day period of one (1) 7.5 run hours shift per Test Day duration in order to demonstrate compliance with the Minimum Performance Requirements as follows:
1. Throughput Test: The purpose of the Throughput Test is to demonstrate that the DSR Processing System is capable of processing Residential Fiber and Commingled Containers at the Minimum Average Throughput Test Requirement during the Equipment Performance Test:
    - The Residential Fiber System shall receive and process a total of 1125 tons of Residential Fiber over a period of five (5) days; 7.5 run hours per day (a total of 37.5 run hours over five (5) Test Days) resulting in a Minimum Average Throughput Requirement of 30 TPH for Residential Fiber.
    - The Commingled Container System shall receive and process a total of 450 tons of Commingled Containers over a period of five (5) days; 7.5 run hours per day (a total of 37.5 run hours over five (5) Test Days) resulting in a Minimum Average Throughput Requirement of 12 TPH for Commingled Containers.
  2. Commercial OCC Throughput Test: The purpose of the Commercial OCC Throughput Test is to demonstrate that the DSR can receive and direct bale Commercial OCC.
  3. System Availability Test: The purpose of the System Availability Test is to demonstrate the DSR Processing System availability. During the Equipment Performance Test, performance criteria for system availability shall be a minimum of 95% up-time or system availability. Excusable down-time will not be considered as down-time when calculating system availability. Excusable down-time includes scenarios where the DSR Processing System is not operating due to human intervention (such as an E-Stop being applied) or a power outage, or due to other causes that are out of the control of the Equipment Contractor. The Engineer will have full discretion in identifying excusable downtime.
  4. Recovery Rate / Residue Test: The purpose of the Recovery Rate / Residue Test is to demonstrate that the DSR Processing System is capable of recovering each material product type at the Minimum Recovery Rate. During the Equipment Performance Test, the DSR Processing System shall recover a minimum of 95% and 98% (as applicable) by weight of each recovered material product type listed in these Contract Documents.
  5. Product Quality and Marketability Test: The purpose of the Product Quality and Marketability Test is to demonstrate that the DSR Processing System is capable of meeting the market specifications for Recovered Materials processed throughout the Equipment Performance Test. If produced by the DSR Processing System, materials shall be produced in "marketable form" in conformance with the quality requirements as outlined in the most recent (as of date the Contract for the DSR Processing System) Institute of Scrap Recycling Industries (ISRI) Guidelines as follows:
    1. Sorted Residential Paper and News (SRPN #58)
    2. Corrugated Cardboard (OCC #11)
    3. Mixed Paper (MP #54)
    4. Office Paper (SOP #37)
    5. Aluminum (UBC Grade)

6. Aluminum (Non-UBC)
  7. FE / Tin Cans / Iron (Baled)
  8. Plastic #1 Blow Molded PET (PET)
  9. Plastic #2 Natural Blow Molded (HDPE(N))
  10. Plastic #2 Colored Blow Molded (HDPE(C))
  11. Plastic #5 Tubs and Lids
  12. Plastic #1-7 Injection Molded / #3-7 Blow Molded (Mixed Plastics)
  13. Crushed Glass (3/8" Minus)
  14. Gable Top / Aseptic Paper Cartons
- E. During the Equipment Performance Test, the Owner's maintenance personnel shall maintain all equipment and systems under the instruction of the Equipment Contractor-furnished manufacturer's factory representative.
- F. The Owner shall supply mobile equipment and storage containers required to move and remove materials. All processed materials shall be the property of the Owner and may be disposed of as the Owner sees fit. Likewise, all residue material resulting from the process shall be disposed of by the Owner.
- G. In case of equipment failure from any cause whatsoever, all defective parts shall be immediately replaced or corrected by the Equipment Contractor at his expense. The Equipment Performance Test shall then be restarted and continued.
- H. In case the equipment does not achieve the Minimum Performance Guarantees or does not meet the Contract requirements, the Equipment Contractor is fully responsible for promptly correcting the problems at the Equipment Contractor's cost and to repeat the Equipment Performance Test. The Equipment Contractor shall modify, replace and correct his work promptly. The corrective plan shall be prepared by the Equipment Contractor and submitted to the Engineer for review. If the Engineer determines the corrective plan to be inadequate and not in conformance with the Contract Documents, the Equipment Contractor shall resubmit a new plan.
- I. During performance of the Equipment Performance Test, the Owner shall provide the following:
1. Operator's personnel
  2. Electric power
  3. Light and heat
  4. Delivery and removal of Test Materials, Recovered Materials and Residue.
- J. During performance of the Equipment Performance Test, including any failed or repeated test due to Equipment Contractor fault, the Equipment Contractor shall include the following:
1. Equipment Contractor's personnel
  2. Manufacturer's representatives
  3. Lubricants
  4. Miscellaneous materials and instrumentation costs associated with the Equipment Performance Test.
- K. Upon successful completion of the Equipment Performance Test and demonstrating to the Engineer's satisfaction that the Equipment Contractor's Work was performed in accordance with these Contract Documents, the Equipment Contractor shall inspect and restore, as required, the equipment to first-class operating condition as determined by the Engineer.
- L. Upon completion of the Equipment Performance Test, the Equipment Contractor shall develop an in-depth Test Report of all Test activities. The Equipment Contractor shall notify

the Owner in writing, that the Process System has passed the Test and is in a condition to be transferred to the Owner. Upon receipt of such notification, the Owner shall request from the Engineer a recommendation to accept the Project.

M. Within fourteen (14) days of the completion of the Equipment Performance Test, the Equipment Contractor shall furnish the Owner/Engineer with five (5) copies of the Test Report. The Test Report shall present the results of the Test and shall certify that the Minimum Performance Requirements have been met. The Report shall include:

1. Executive Summary which certifies that Testing was conducted in accordance with the Test Protocol and presents a summary of the results of the Equipment Performance Test;
2. Certification of the Equipment Performance Test results, including a determination to the extent to which the Facility complies with the applicable Minimum Performance Requirements;
3. Test results presented in an organized manner utilizing data tables and spreadsheets, as applicable;
4. Description of the Test conducted;
5. Listing of daily staff utilized;
6. All Test Data sheets completed;
7. All inbound scale tickets and reports;
8. All data measured and recorded during the Equipment Performance Test Period which shall include Test date, quantities of Test Materials received and processed, process time periods, Residue quantities measurements, material quality results, Unacceptable Materials received, Recovered Products processed (Note: to be provided as an Addendum to the Test Report).
9. Detailed description of all Report attachments and appendices, as applicable;
10. All calculations used in determining Test Results;
11. All data reasonably requested by the Owner and Engineer to be included in the Test Report.

## 1.7 FINAL ACCEPTANCE

A. Final acceptance of the DSR Processing System by the Owner shall occur upon Successful Completion of all testing requirements and other requirements for substantial completion. This includes the Equipment Startup Test, Equipment Shakedown Test, and Equipment Performance Test.

## 1.8 TRAINING

A. See individual equipment specification sections.

B. The Equipment Contractor shall design and execute an operator-training program of two week's duration. The program shall consist of both classroom and hands-on training, covering all aspects of operating and maintaining the individual process equipment items and the system as a whole. The training program shall be conducted in conjunction with the System Start-Up (No-Load) Testing and System Shakedown Test (Load Test). All training must be completed prior to commencement of the Equipment Performance Test.



- C. The training program shall be conducted by individuals certified by the equipment manufacturers to be qualified instructors.
- D. The Equipment Contractor shall submit for approval the training program syllabus 30 days prior to the commencement of training.
- E. The facility Operation & Maintenance Manuals shall be used for the training program.
- F. Training shall be provided to all facility administration, maintenance personnel, supervisory personnel, and other facility operations personnel.
- G. Training shall include facility safety training, including proper procedures for personnel protection, including lock-out, tag-out procedures.
- H. Conduct all personnel training after completion of Equipment Start-up for the equipment for which training is being conducted.
- I. Personnel training on individual equipment or systems will not be considered completed unless:
  - a. All pre-training deliverables are received and approved before commencement of training on the individual equipment or system.
  - b. No system malfunctions occur during training.
  - c. All provisions of field and classroom training specifications are met.
  - d. Training not in compliance with the above will be performed again in its entirety by the manufacturer at no additional cost to Owner.
- J. Field and classroom training requirements:
  - a. Hold classroom training on-site.
  - b. Notify each manufacturer specified for on-site training that the Owner reserves the right to video record any or all training sessions. Organize each training session in a format compatible with video recording.
  - c. Training instructor: Factory trained and familiar with giving both classroom and "hands-on" instructions.
  - d. Training instructors: Be at classes on time. Session beginning and ending times to be coordinated with the Owner and indicated on the master schedule. Normal time lengths for class periods can vary, but brief rest breaks should be scheduled and taken.
  - e. Organize training sessions into maintenance verses operation topics and identify on schedule.
  - f. Plan for minimum class attendance of 5 people at each session and provide sufficient classroom materials, samples, and handouts for those in attendance.
  - g. Instructors to have a typed agenda and well-prepared instructional material. The use of visual aids, e.g., films, pictures, and slides is recommended for use during the classroom training programs. Deliver agendas to the Engineer a minimum of 7 days prior to the classroom training. Provide equipment required for presentation of films, slides, and other visual aids.
  - h. In the on-site training sessions, cover the information required in the Operation and Maintenance manuals submitted according to the Contract Documents and the following areas as applicable:
    - Operation of equipment.
    - Lubrication of equipment.
    - Maintenance and repair of equipment.
    - Troubleshooting of equipment.
    - Preventive maintenance procedures.
    - Adjustments to equipment.
    - Inventory of spare parts.
    - Optimizing equipment performance.
    - Capabilities.

- Operational safety.
  - Emergency situation response.
  - Takedown procedures (disassembly and assembly).
- i. Maintain a log of classroom training provided including: Instructors, topics, dates, time, and attendance.

END OF SECTION 01350

## **Attachment 2**

### **Items to be Supplied by Operator**

### SCOPE OF ITEMS TO BE FURNISHED/SUPPLIED BY OPERATOR

#### **Purpose**

The purpose of this Attachment 2 is to identify items that the Operator shall be responsible for procuring and furnishing at the site at the Operator's expense (e.g. as part of the Operator's Operating and Maintenance Fee). All items listed in this Attachment shall be submitted for approval to Rockland Green prior to their delivery to the facility.

All items to be furnished/supplied by the Operator shall be in new or like-new condition and shall be appropriately sized and specified to successfully accomplish its function.

The Operator is responsible for furnishing/supplying these items for the duration of the Agreement. If at any point it is determined that any items provided by the Operator have reached the end of their useful life, the Operator shall replace these items, at their cost, with comparable items.

#### **Items to be Furnished/Supplied By Operator**

Items to be furnished/supplied by the Operator include but are not limited to the following:

##### Consumables

1. Bale wire
2. Diesel fuel
3. Housekeeping consumables
4. Propane racks
5. Propane tanks
6. Rolling stock consumables/parts
7. Spare parts
8. Washroom/changeroom consumables

##### Furniture & Appliances

9. Break room furniture & appliances
10. Office furniture
11. Office supplies
12. Office equipment, including computers
13. Phones
14. Water coolers

##### Operations

15. Intermediate Bulk Containers (IBC) tote container(s)
16. Self-dump hoppers
17. Trash and recycling receptacles

Safety

18. All required PPE for Operator personnel
19. Building safety equipment such as convex safety mirrors
20. Fall protection equipment
21. Fire extinguishers
22. First aid kit/burn kit
23. Lockout-tagout equipment
24. Material Data Sheets
25. Spill kits
26. Uniforms for Operator personnel

Storage

27. Flammable storage cabinet(s)
28. Storage racks for spare parts, tools, etc.

Tools & Maintenance

29. Housekeeping tools
30. Maintenance tools<sup>1</sup>
31. Temporary ladders & scaffolding
32. Two-way radios

Rolling Stock

33. Articulating man lift(s)
34. Forklifts
35. Front end loaders
36. Roll-off truck
37. Scissor lift(s)
38. Skid steer(s)

<sup>1</sup>Per Section 01200 of the Technical Specifications for the Equipment Contractor: "One complete set of high-grade special tools and accessories that may be needed to adjust, operate, maintain or repair the equipment shall be furnished by the Equipment Contractor." The Operator shall coordinate with the Equipment Contractor to identify the scope of the 'special tools'.

**Attachment 3**  
**Equipment Contractor Motor List**

# Rockland Green

(Preliminary) Motor Power List



To: Ryan Lawlor

Last updated: June 15, 2021

Rev. 1

VOLTAJE: 480V -60HZ

We draw your attention to the fact that the maximum power voltage tolerance is +/- 10%. In the case of larger variations, we cannot guarantee proper operation.

Pos #	Description	Qty	kW	Total kW	Amps	Total HP
10	Drum feeder	1	0.75	0.75	1	1.01
10	Drum feeder	1	15	15.00	26	20
15	Automatic Back Wall	1	0.37	0.37	1	0
20	Discharge conveyor	1	7.5	7.50	13	10
30	Pre sort conveyor	1	3	3.00	5	4
60	Discharge conveyor	1	1.5	1.50	3	2.01
70	Transfer conveyor	1	1.5	1.50	3	2.01
80	OCC StarScreen 880-2540x10000	4	7.5	30.00	52	40
90	Quality control conveyor	1	3	3.00	5	4
110	Discharge conveyor	1	7.5	7.50	13	10.05
120	Transfer conveyor	1	10	10.00	17	13
130	Feed conveyor	1	3	3.00	5	4
140	Feed conveyor	1	3	3.00	5	4
150	Feed conveyor	1	1.5	1.50	3	2
160	Glass breaker screen	2	11	22.00	38	29
180	Discharge conveyor	1	3	3.00	5	4
190	Discharge conveyor	1	3	3.00	5	4
200	Transfer conveyor	1	4	4.00	7	5
210	Transfer conveyor	1	3	3.00	5	4
220	Feed conveyor	1	3	3.00	5	4
230	Feed conveyor	1	3	3.00	5	4
260	Aanvoerband_Air	1	11	11.00	19	15
270	Air Booster	1	11	11.00	19	15
280	Aanvoerband_Air	1	11	11.00	19	15
290	Air Booster	1	11	11.00	19	15
300	Separation Hood 2.0 SV Long parts separator	1	1.1	1.10	2	1
320	Separation Hood 2.0 SV Long parts separator	1	1.1	1.10	2	1
340	Quality control conveyor	1	5.5	5.50	10	7
350	Reversible conveyor	1	1.5	1.50	3	2
360	Quality control conveyor	1	3	3.00	5	4
390	Discharge conveyor	1	3	3.00	5	4
400	Transfer conveyor	1	3	3.00	5	4.02
410	Top belt magnet	1	4	4.00	7	5
420	Feed conveyor	1	1.5	1.50	3	2
430	Fixed bin	1	0.75	0.75	1	1
440	Eddy Current	1	4	4.00	7	5
440	Drum	1	7.5	7.50	13	10
460	Quality control conveyor	1	1.5	1.50	3	2
500	Air transportation UBC	1	18.5	18.50	32	25
510	Fixed bin	1	0.75	0.75	1	1
520	Feed conveyor	1	4	4.00	7	5
540	Speed up conveyor	1	5.5	5.50	10	7
550	Separation Hood 2.0 SV Long parts separator	1	1.1	1.10	2	1
570	Discharge conveyor	1	3	3.00	5	4
580	Quality control conveyor	1	4	4.00	7	5
590	Fixed bin	1	0.75	0.75	1	1
600	Speed up conveyor	1	5.5	5.50	10	7
610	Separation Hood 2.0 SV Long parts separator	1	1	1.00	2	1
640	Feed conveyor	1	3	3.00	5	4

650	Speed up conveyor	1	5.5	5.50	10	7
660	Separation Hood 2.0 SV Long parts separator	1	1	1.00	2	1
680	Quality control conveyor	1	3	3.00	5	4
700	Discharge conveyor	1	3	3.00	5	4
710	Fixed bin	1	0.75	0.75	1	1
720	Fixed bin	1	0.75	0.75	1	1
730	Fixed bin	1	0.75	0.75	1	1
740	Fixed bin	1	0.75	0.75	1	1
750	Quality control conveyor	1	3	3.00	5	4
760	Discharge conveyor	1	1.5	1.50	3	2
770	Quality control conveyor	1	3	3.00	5	4
780	Fixed bin	1	0.75	0.75	1	1
790	Discharge conveyor	1	3	3.00	5	4
800	Transfer conveyor	1	3	3.00	5	4
810	Quality control conveyor	1	3	3.00	5	4
830	Bunker belt	1	3	3.00	5	4
830	Guillotine door	2	0.37	0.74	1	1
840	Bunker belt	1	3	3.00	5	4
840	Guillotine door	2	0.37	0.74	1	1
850	Bunker belt	1	3	3.00	5	4
850	Guillotine door	2	0.37	0.74	1	1
860	Drum feeder	1	0.37	0.37	1	0
860	Drum feeder	1	15	15.00	26	20
865	Automatic Back Wall	1	0.37	0.37	1	0
870	Discharge conveyor	1	7.5	7.50	13	10
880	Pre sort conveyor	1	3	3.00	5	4
890	Discharge conveyor	1	1.5	1.50	3	2
900	Transfer conveyor	1	3	3.00	5	4
910	Glass breaker screen	2	11	22.00	38	29
930	Transfer conveyor	1	3	3.00	5	4
950	Discharge conveyor	1	3	3.00	5	4
960	Feed conveyor	1	4	4.00	7	5
970	Elliptical Elliptical	2	7.5	15.00	26	20
970	Luchtondersteuning	1	7.5	7.50	13	10
980	Transfer conveyor	1	1.5	1.50	3	2
990	Discharge conveyor	1	1.5	1.50	3	2
1000	Discharge conveyor	1	3	3.00	5	4
1010	Feed conveyor	1	1.5	1.50	3	2
1020	Discharge conveyor	1	3	3.00	5	4
1030	Transfer conveyor	1	4	4.00	7	5
1040	Fixed bin	1	0.75	0.75	1	1

## 2 HBC120S Baler

1060	Discharge conveyor	1	5.5	5.50	10	7
1070	By pass conveyor	1	3	3.00	5	4
1080	Feed conveyor	1	15	15.00	26	20
1090	Main motor1	1	90	90.00	156	121
1090	Hydraulic unit for extra wide feed hopper	1	7.5	7.50	13	10
1090	Ruffler	1	11	11.00	19	15
1090	Vertical needles	1	7.5	7.50	13	10
1090	Vertical wire device	1	1.5	1.50	3	2
1090	Tying system with hydraulic lifting mechanism	1	1.1	1.10	2	1
1090	Horizontal needles	1	7.5	7.50	13	10
1090	Horizontal wire device	1	1.5	1.50	3	2
1090	Counter pressure pump	1	1.1	1.10	2	1
1090	Oil cooler fan	1	3	3.00	5	4
1090	Oil cooler pump	1	4.6	4.60	8	6

## 3 Harris baler



1100	Feed conveyor	1	10	10.00	17	13
1070	Harris Baler	2	100.00	200.00	346	268
1070	Harris Baler	1	15	15.00	26	20
1070	Harris Baler	1	5.6	5.60	10	8
<b>4 COMPRESSORS</b>						
	CSD 100	3	93.9	281.70	487	377
<b>5 COMPACTORS</b>						
	Heavy duty 3 cubic yard stationary compactor	2	13.4	26.80	46	36
<b>6 Glass System</b>						
1000	Surge Hopper w/cover & 24" Reciprocating Feeder	1	3.73	3.7285	6	5
1000	Conveyor & Diverter - Glass Pulverizer Infeed	1	3.73	3.7285	6	5
1000	GP-2HD Glass Pulverizer - Heavy Duty Bolt in Liners.	1	14.91	14.914	26	20
1000	GP-2HD Glass Pulverizer - Heavy Duty Bolt in Liners.	1	14.91	14.914	26	20
1000	Conveyor - Glass Pulverizers Outfeed	1	2.24	2.2371	4	3
1000	Conveyor - Trommel Infeed w Mag. Head Pulley	1	3.73	3.7285	6	5
1000	ATROM-105 Trommel Separator	1	5.59	5.59275	10	8
1000	Vacuum Density Separator	1	2.24	2.2371	4	3
1000	Cyclone-68", 10"Airlock, 21-HA Fan	1	23.12	23.1167	40	31
1000	Conveyor - Trommel Residue	1	2.24	2.2371	4	3
1000	Conveyor - Waste Transfer	1	2.24	2.2371	4	3

**Note: we recommend 25% spare capacity of the total full load Amperage (FLA)**

<b>Motors</b>		<b>Kw</b>	<b>Amp</b>	<b>HP</b>	<b>Amps with Safety</b>
<b>134</b>		<b>1179.20</b>	<b>2040</b>	<b>1580</b>	<b>2550</b>