

BID SOLICITATION NOTICE

TO RECEIVE A BID PACKAGE, BIDDERS MAY EITHER DOWNLOAD THE REQUEST FOR BID (“RFB”) FROM THE AUTHORITY’S WEBSITE AT <http://www.state.nj.us/turnpike/purchasing.html> OR REQUEST A BID BY COMPLETING THIS FORM AND FAXING IT TO THE NUMBER STATED BELOW. FOR RECORD KEEPING PURPOSES, THE AUTHORITY REQUESTS THAT THE BIDDER COMPLETE THIS FORM AND RETURN IT TO THE PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT, EVEN WHEN A BIDDER IS DOWNLOADING THE RFB. THIS IS THE ONLY NOTICE OF BIDDING FOR THE FOLLOWING GOODS.

**THE NEW JERSEY TURNPIKE AUTHORITY
PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT**

New Jersey Turnpike Administrative Offices
P.O. Box 5042
581 Main Street
Woodbridge, New Jersey 07095-5042
Tel. - 732-750-5300 Ext. 8640 Fax - 732-750-5399

TITLE: **HYBRID-DIESEL COMBINATION RIDER SWEEPER / SCRUBBER**

BID NO: **R-123219**

DUE DATE: **April 27, 2016**

TIME: **11:30 AM**

SUBMIT BIDS BEFORE THE DUE DATE AND TIME STATED ABOVE TO THE ABOVE ADDRESS

BIDDER INFORMATION (PLEASE PRINT)

NAME OF BIDDING ENTITY

ADDRESS

CITY, STATE AND ZIP CODE

E-MAIL ADDRESS

REPRESENTATIVE TO CONTACT-NAME & TITLE

TELEPHONE NO.

FEDERAL TAX I.D. NO. or TAXPAYER I.D. NO.

FAX NO

WE HAVE DOWNLOADED THE BID FROM THE AUTHORITY WEBSITE

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BUSINESS CORPORATION _____ PARTNERSHIP _____ INDIVIDUAL

OTHER (SPECIFY) _____

SECTION I

A. INTRODUCTION

The New Jersey Turnpike Authority (the “Authority”) was created by an act of the New Jersey Legislature in 1948, known as the New Jersey Turnpike Authority Act (as amended and supplemented, “Act”). The Act authorizes the Authority to construct, maintain, repair, and operate the New Jersey Turnpike, to collect tolls, and to issue Turnpike Revenue Bonds or Notes, subject to the approval of the Governor, payable from tolls and other revenues of the Authority. On May 27, 2003, the Act was amended to empower the Turnpike to assume all powers, rights, obligations and duties of the New Jersey Highway Authority (the “Highway Authority”), which owned and operated the Garden State Parkway and PNC Bank Arts Center. On July 9, 2003, the Authority assumed all powers, rights, obligations and duties of the Highway Authority. The Authority currently operates both the Garden State Parkway (“GSP”) and the New Jersey Turnpike (“Turnpike”) (both roads are collectively referred to herein as the (“Roadways”).

The Authority is governed by an eight member Board of Commissioners (“Board”). The Governor of New Jersey appoints each of its members and has the statutory authority to overturn an action of the Board by vetoing any Board action within 10 days of receiving the minutes of the meeting. The Board authorizes awards of all public contracts over \$35,000, except in cases where it has delegated authority to the Executive Director.

This bid solicitation is being conducted pursuant to the Authority’s enabling statute as found in N.J.S.A. 27.23-6.1 and Executive Order number 37 (Corzine 2006) and the regulations and policies of the Authority with regard to public bid procurement.

B. BIDDER GUIDELINES/CHECKLIST

BIDS THAT FAIL TO CONFORM TO THE FOLLOWING REQUIREMENTS MAY BE REJECTED:

1. The Request of Bid (“RFB”), including specifications and related bid documents (“Bids”) must be received at or before the due date and time stated on the cover page at the following place: New Jersey Turnpike Authority, Administration Building, 581 Main Street, Woodbridge, New Jersey 07095. Late Bids will be returned unopened. Telephone or facsimile Bids will not be accepted.
2. **The entity submitting a Bid (“Bidder”) must provide one original and one copy of the Bid.** The Bid must include all price information. Bid prices shall include delivery of all items F.O.B. destination or as otherwise provided. Price quotes must be firm through issuance of contract.
3. All Bid prices must be typed or written in ink. Quote the specified unit of measure. If bidding an alternate, provide detailed specifications.
4. All corrections, white-outs, erasures, re-striking of type, or other forms of alteration or the appearance of alteration, to unit and/or total prices must be initialed in ink by the Bidder.
5. The Bidder must attend the mandatory site inspection at the following date(s) and time(s) if applicable:
6. If checked this RFB requires the following mandatory document(s) or the Bid **will** be rejected:
 - (a) Bid Bond or Cashier’s Check for 10% of the amount Bid or a Letter of Surety
 - (b) Stockholder/Partnership Disclosure Statement
7. See the Authority’s Instruction to Bidders for a complete list of the Authority’s standard contract Terms and Conditions, as well as required forms that must be included with the Bid (**SEE ATTACHED**).

The following checked documents are required for this Bid. Failure to submit the required forms may result in the rejection of the Bid.

- (a) State of New Jersey Division of Revenue Business Registration Certificate
 - (b) Certification of Registration with the Secretary of State (only if non-NJ corporation)
 - (c) Acknowledgement of requirement for Disclosure of Political Contributions (ELEC)
 - (d) Public Works Contractor Registration Certificate(s) (if applicable)
 - (e) Affirmative Action Information Sheet with Certificate or Form AA302
 - (f) Signed Mandatory Equal Employment Opportunity Language
 - (g) SBE/WBE/MBE Certificates and Form
 - (h) Vendor Disclosure Form (EO129-Location of Services)
 - (i) Notice of Set-Off for State Tax (P.L. 1999, c 159)
 - (j) Automobile Insurance Liability Waiver
 - (k) Insurance Certificate
 - (l) Disclosure of Investment Activities in Iran
8. Bidder must sign
 9. Three year Open Option Clause

SECTION II

A. INTENTION

1. Sealed Bids for R-123219 must be received at the New Jersey Turnpike Authority Administrative Offices, 581 Main Street, Woodbridge, New Jersey 07095-5042, by the due date and time stated on the cover page of this “RFB”, at which time and place said Bid will be opened and read in public.
2. Bidders mailing bids should allow for their normal mail delivery time to ensure timely receipt of the Public Bids. **Please be advised that using an overnight/next-day delivery service does not guarantee overnight/next-day deliveries to our location. The Authority will not be responsible for any Bid not being received by the required date and time.**
3. It is the intention of the Authority to issue a purchase order or notice of award for a price agreement for the procurement of a **HYBRID-DIESEL COMBINATION RIDER SWEEPER/SCRUBBER.**
4. Items purchased under this contract will be delivered as directed by the Authority.
5. Please contact Richard Bava with any questions regarding this procurement contract at 732-750-5300 x-8636 or rbava@turnpike.state.nj.us.

B. BID SHEET INSTRUCTIONS

1. Bidders must follow all instructions in this RFB and in the Instructions to Bidders issued by the Authority, and any other documents issued by the Authority in connection with this RFB (collectively, “Bid Documents”).
2. Bidders must examine the bid documents carefully before bidding and must ask the Director of Procurement and Materials Management Department (“PMM”) in writing for any interpretation or correction of any apparent ambiguity, inconsistency or apparent error therein. If necessary, an interpretation or correction to the specifications shall be issued by the Director of PMM in response to inquiries and/or addendum shall be faxed to Bidders who have obtained the Bid Documents. Upon the issuing of an addendum, the addendum shall become part of the bid documents. **Requests for interpretation or correction shall be considered only if received at least 5 business days prior to the Bid opening date.** Written requests can be submitted by FAX at 732-750-5399.
3. The submission of the Bid is conclusive evidence that the Bidder is fully aware of the conditions, requirements, and details as stated in the Bid Documents. If the Bidder, prior to submitting its Bid, fails to notify the Director of PMM of the existence of an ambiguity or inconsistency in the Bid Documents, a Bid will conclusively be presumed to have been based upon the Authority’s interpretation of such ambiguity or inconsistency.
4. All erasures, interpolations or other physical changes on the Bid form shall be signed or initialed by the Bidder. Bids containing any conditions, omissions, erasure’s, alterations, or items not called for in this “RFB” or irregularities of any kind, may be rejected by the Authority, in its sole discretion.
5. The Bidder shall not attach conditions, limitations or provisos to its Bid.

6. **The Authority will accept Approved Equivalent items on this Bid.** If a Bidder is basing the proposal on items other than what is specified, and wishes the items proposed to be considered as an "Approved Equivalent", the Bidder shall enter a price on the Bid sheet then submit on the Exception Sheet in the exact format of the line item on the RFB contained herein, the item number, an item description including manufacturers name, model number, informational brochure(s), and packaging quantities of those items that the Bidder proposes to substitute.

C. BASIS OF AWARD

1. **Bidders must supply a price for every item listed. Bids not having a price for all listed items may be rejected.**
2. **Bidders must quote only one price per line item. If a Bidder quotes multiple prices per line item, the Bid may be rejected.**
3. The Authority will purchase amounts of any given item as needed, at the sole discretion of the Authority and shall not be bound by any quantities listed. The Authority reserves the right to make reasonable increases to line item quantities.
4. All items are to be Bid FOB Destination. All shipping, handling, and other costs should be considered in the Bid price.
5. The Authority is tax exempt from New Jersey Sales and Excise Tax.
6. Award will be made to the lowest responsive Bidder for the total line items Bid.

D. MISCELLANEOUS

1. Delivery Date _____
(Insert if applicable)
2. Payment Terms: The Authority's standard payment terms are Net 30 days. Prompt payment discounts may be offered and must be a minimum of 10 days.

Discount: Maximum time period _____
Percentage _____

Note: Although prompt payment discounts will not be considered in determining low Bid, the Authority reserves the right to take advantage of any such discounts offered.

BID QUOTATION SHEET

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL DOLLAR AMOUNT
1	1	EA	HYBRID-DIESEL COMBINATION RIDER SWEEPER/SCRUBBER, AS PER ATTACHED SPECIFICATIONS	\$	\$

Contract shall be awarded to the responsive, responsible bidder submitting the lowest Total Dollar Amount

ANY INQUIRIES CONCERNING THIS BID MUST BE SENT VIA FAX TO 732-750-5399 NO LATER THAN FIVE (5) BUSINESS DAYS BEFORE BID OPENING

NEW JERSEY TURNPIKE AUTHORITY

Andrea E. Ward
Director, PMM Department

_____/_____
Name of Company / Authorized Signature of Bidder

E. SIGNATURE PAGE

1. **ADDENDA / INQUIRIES:** COMPLETE (if applicable) BEFORE SUBMITTING BID:
Receipt of Addendum / Inquiries # _____ dated _____ is hereby acknowledged.
Receipt of Addendum / Inquiries # _____ dated _____ is hereby acknowledged.

CHECK BOX IF NO ADDENDA/INQUIRY ISSUED

(All Addenda / Inquiries must be acknowledged as indicated above.)

2. **BID IRREVOCABLE:** This offer shall be irrevocable for ninety (90) working days after the date on which the Authority publicly opens this Bid.
3. **OFFER/CERTIFICATION:** The undersigned offers and agrees to furnish to the New Jersey Turnpike Authority the services and/or materials in compliance with all terms, conditions, specifications and addenda of the RFB, Bid Documents, and resulting contract. The undersigned further certifies understanding and compliance with the requirements of the standard terms and conditions as stated in the Instructions to Bidders included with the Bid Documents. The undersigned certifies that he or she executes this Bid with full authority so to do; and that all statements contained in this Bid and in this certification are true and correct, and made with full knowledge that the Authority relies upon the truth of the statements contained herein and in any statements requested by the Authority showing evidence of qualifications in awarding the contract.

I certify that the foregoing statements made by me are true. I am aware that if any of the foregoing statements made by me are willfully false, I am subject to punishment.

4. **AUTHORIZED SIGNATURE:** _____

Print Name and Title: _____

Bidder: _____

Address: _____

City, State, Zip: _____

E-mail address _____

Telephone #: _____ Fax: _____

Date: _____

ADDITIONAL YEARS PURCHASING OPTION, for R-123219

TITLE: HYBRID-DIESEL COMBINATION RIDER SWEEPER / SCRUBBER

3 - Year Open End Option: The Authority shall have the option for one (1) Model Year* from the date of Contract, to order additional units conforming to the requirements of these specifications at the same price and under the same terms and conditions as those contained herein.

The Authority shall further have the option to purchase additional units conforming to these specifications for two (2) additional Model Years. Any unit(s) offered during the two (2) subsequent Model Years shall be of the model equivalent to that specified herein. In the latter instances, if there have been any price changes, the vendor shall submit a request to the Authority covering the aforesaid price changes, and shall include appropriate explanation and justification for any such price changes.

Any such request for price adjustment shall be in writing and directed to the Director, Procurement and Materials Management Department and shall be accompanied by the following evidence as a basis for your request;

1. The published price lists for equipment, which were in effect at the time of your original proposal.
2. The equivalent published price lists in effect at the time of your request.
3. Any additional evidence which the Authority deems necessary in the evaluation of your request.

The Authority shall, within its sole discretion, have the right to accept the price changes proposed by the vendor or if it so desires, re-bid the requirement.

*Model Year is defined as the Model Year of the Manufacturer of the unit(s) offered by you in this Request for Quotation. In that instance where proposals are for equipment for which "Model Year" and "Production Cut-Off Dates" are undefined or non-existent, the "Model Year" is defined, for bid purposes, as one calendar year from the date on which the Contract is accepted. The last date on which orders may be placed for the Model currently in effect is_____.

SECTION III

NO RESPONSE BID SURVEY

BID / REQUISITION NUMBER: R-123219

BID TITLE: HYBRID-DIESEL COMBINATION RIDER SWEEPER/SCRUBBER

If you do not choose to respond to this Bid, please complete the form below:

Name of Company _____

Reason you did not respond (Check all that apply)

- Cannot supply product or service
- Cannot meet technical specifications
- Cannot meet delivery specifications
- Cannot meet legal requirements
(i.e. Bid/performance/security/insurance, etc.)
- Cannot provide a competitive price at this time
- Interested in receiving specifications for informational purposes only
- Insufficient lead time to respond
- Other:(please be specific) _____

Do you wish to remain on our mailing list?

Yes No

Additional comments: _____

Signed :(optional) _____

Company: _____

NEW JERSEY TURNPIKE AUTHORITY

GENERAL INSTRUCTIONS AND SPECIFICATIONS FOR:

Quantity	Description	Required Delivery Date
1	Hybrid-Diesel Combination Rider Sweeper/Scrubber	120 Days After Receipt of Order

SPECIFICATIONS: HDCRSS-2016: Hybrid Diesel Combination Rider Sweeper/Scrubber

COMPLIANCE WITH RULES AND REGULATIONS: The unit and associated equipment furnished must comply with all Federal and State Motor Vehicle Safety Laws and Regulations and shall be capable of passing the New Jersey State Motor Vehicle Inspection Laws, where applicable.

ENERGY STAR REQUIREMENTS: If applicable for items specified in the bid package, the vendor must provide products that earn Energy Star Certification and meet the Energy Star specifications for energy efficiency. The vendor is encouraged to visit energystar.gov for complete product specifications and updated lists of qualifying products. The Energy Star label must also be affixed to each delivered item. The bidder's signature on the signature page certifies that items so indicated that have earned Energy Star and meet the Energy Star specifications or other standards for energy efficiency will be supplied.

ERRORS AND OMISSIONS: Inadvertent omissions or errors in the attached specifications must be brought to the attention of the New Jersey Turnpike Authority's Director of Procurement and Materials Management at 732-750-5300 before bid submission date. If, with knowledge of such error or omission and prior to the correction thereof, the bidder proceeds with any work affected hereby, they shall do so at their own risk and the work so done shall not be considered as work done under and in performance of this Agreement unless and until approved and accepted.

PILOT MODEL: Questions, which arise before or during the preparation of the pilot model, shall be addressed in writing via e-mail from the vendor to Peter Perperas (Project Supervisor), perperas@turnpike.state.nj.us at the New Jersey Turnpike Authority on a not to delay basis.

REQUIRED DELIVERY DATE: In the event a bidder takes an exception to the Authority's required delivery date, they **must** note the exception on the attached exception sheet. Furthermore, a specific number of days **must** be listed. Under no circumstances shall bidders give approximate dates or ranges of dates to deliver such as: 210 days to 240 days. Failure to follow these guidelines may result in rejection of bid.

DELIVERY INSTRUCTIONS:

- A. Vendor must contact Peter Perperas (Project Supervisor) at 732-442-8600 ext. 2868 for authorization to schedule date and time prior to delivery. **Deliveries shall be made to the New Jersey Turnpike Authority's District 7 (Northern Division) Maintenance Facility located at 14 Port St. Newark, NJ 07114.**
- B. Vendor shall be responsible for all delivery, shipping and pick-up expenses.
- C. All units must be pre-delivery serviced, completely assembled, operational, and cleaned prior to Authority delivery.
- D. The following administrative package **must** accompany all deliveries:
- Certificate of Origin: stamped "Sales Tax Satisfied" and shall be made out to New Jersey Turnpike Authority, 581 Main St. Woodbridge, NJ 07095. Certificate of Origin shall have current date and be hand delivered to Peter Perperas after final acceptance of complete order.
 - Invoice: purchase order number must be displayed on vendors invoice. Invoice shall have current date and be hand delivered to Peter Perperas after final acceptance of complete order.
 - Warranty forms properly executed.
 - Four (4) keys for each unit shall be furnished **NO EXCEPTIONS**
 - Delivery of all units fully completed and fully compliant shall be made no later than one-hundred twenty (120) days after receipt of Purchase Order.
- E. **Deliveries made directly from the manufacturer (unless manufacturer is the awarded bidder) shall not be acceptable.**

WARRANTY: All units delivered must be guaranteed to be free from defects in materials, design and workmanship for one (1) year, including two (2) years labor, three (3) years parts from the time of acceptance by the New Jersey Turnpike Authority. All warranties shall start upon written acceptance of units by the New Jersey Turnpike Authority. Warranty must include service availability from any manufacturers authorized dealer establishment most closely located to the Turnpike area. This repair facility may not be further than 100 miles from New Jersey Turnpike Authority Turnpike Divisions District 7 (Northern Division) located at 14 Port St. Newark, NJ 07114. If warranty service is required, the vendor who supplied the unit shall provide for pickup, delivery and repair of unit at no charge to the New Jersey Turnpike Authority. All warranty periods shall start from date of acceptance of unit by the New Jersey Turnpike Authority.

EXCEPTION SHEET: Exception sheet is furnished with each set of specifications. Bidders making exceptions must note exceptions by item and indicate substitution in lieu and submit with bid, detailed specifications on the substitution. If the vendor is submitting an alternate product, component, feature or part to what is referenced in the specifications, the proposals **must** be accompanied by descriptive literature, marked and indicate the exact items to be furnished, with an engineering drawing of the same. **Failure to supply information requested may result in rejection of bid.** Where no exception is taken; the word "None" shall be neatly printed or typed on the exception sheet. **Failure to supply information and/or failure to complete the bidder's exception spaces in the prescribed manner may disqualify bid. It shall be understood that if no exception is taken,**

the vendor shall supply all material exactly as specified. No substitution will be permitted after receipt of bids.

APPROVED EQUIVALENT: A bid substitution for a specified item brand and/or model that meets the required quality and performance standards of the original brand; substitutions will be determined to be an equivalent by the New Jersey Turnpike Authority.

UNIT INFORMATION FORM: Vendor shall complete the entire Unit Information Form. **Failure to complete form may result in rejection of bid.**

MANUFACTURER'S PRODUCTION SHEET: The vendor shall furnish one (1) copy of the actual Factory Production Sheet for each unit provided. The copies of the Factory Production Sheet shall be submitted at the time of the Authority's inspection of the unit.

TRAINING: It shall be the responsibility of the successful bidder to supply all safety, operational and service training to New Jersey Turnpike Authority personnel in accordance with all applicable ANSI and OSHA regulations. The safety and operational training shall consist of a complete review and understanding of the manufacturer's owner manual, along with actual operation of equipment. The instructor shall emphasize all proper uses for safe operation. The training shall include but not limited to all general troubleshooting of the hydraulic system and associated electronics. The instructor shall also emphasize the proper use of tools and test equipment along with general shop safety. The service seminars shall be similar to factory and manufacture type schools. The training shall be scheduled and take place at New Jersey Turnpike Authority Turnpike Divisions District 7 (Northern Division) Maintenance Facility located at 14 Port St. Newark, NJ 07114, approximately (8) hours.

LABELS: Plastic stick-on labels shall not be acceptable.

ADVERTISEMENTS: No Dealer advertisements shall appear on unit or any other related equipment.

ACCESSORIES: All accessories shall be manufacturer installed when the item is available from the manufacturer.

FACILITIES: Bidders shall represent a manufacturer, which has in operation a factory adequate for the manufacture of the equipment, which it proposes to furnish. The manufacture(s) whose associated equipment or products are bid shall have a full service warranty and parts supply facility that can guarantee availability of parts within 24 hours after telephone order and shall be located within a 100 mile radius of the New Jersey Turnpike Authority Turnpike Divisions District 7 (Northern Division) Maintenance Facility located at 14 Port St. Newark, NJ 07114. The bidder shall submit the locations, names and telephone numbers of people who are authorized to service the equipment or who can be reached for emergency service.

Location _____

Phone # _____

Contact _____

Name & Title

SPECIFICATIONS: HDCRSS-2016
HYBRID DIESEL COMBINATION RIDER SWEEPER/SCRUBBER

INTENT: The intent of this specification is to describe and govern the purchase of a 2016 or new current model dedicated rider sweeper/scrubber combination offering dry cylindrical sweeping and wet disc scrubbing. The unit shall be new and of the latest design and be in current production at time of submission of bid. All standard and optional equipment shall be Original Equipment Manufacturer (OEM).

BIDDER’S INSTRUCTIONS

IT SHALL BE THE BIDDER’S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED “APPROVED EQUIVALENTS” MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED “APPROVED EQUIVALENTS” MAY CAUSE REJECTION OF BID. WHERE “MINIMUM/MAXIMUM” IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

	COMPLY	
	YES	NO
GENERAL:		
A. 2016 or new current model dedicated rider sweeper/scrubber combination offering dry cylindrical sweeping and wet disc scrubbing.		
B. Sweep path: 60" minimum .		
C. Scrub path: 48" minimum .		
D. The machine shall be powered by a diesel fueled engine system as part of an electric hybrid drive system.		
E. The machine shall be capable of sweeping and scrubbing surfaces such as concrete, asphalt, tile, marble etc.		
F. The unit shall be new and of the latest design and be in current production at time of submission of bid.		
G. All standard and optional equipment shall be Original Equipment Manufacturer (OEM).		
H. All things not expressly mentioned in this specification but involved in carrying out their intent are required and the vendor shall perform the same as though they were specifically mentioned, described, and delineated.		
I. Unit shall be ETL and CE certified with labels clearly displayed.		
POWER SOURCES:		
A. The machine shall have high-efficiency electric hybrid drive system.		
B. All systems shall be electronically controlled and powered by electric motors and actuators.		
C. Intermittently operated self-contained electrically driven hydraulic power unit and cylinder for the hopper raise and lower functions.		

	COMPLY	
	YES	NO
D. System shall have a 36-volt gel battery capable of providing essential functional capabilities: <ul style="list-style-type: none"> • Up to 30 minute machine transport • Up to 15 minutes scrubbing/sweeping (Without engine power) 		
ENGINE/ELECTRICAL:		
A. Kubota D1305 or Authority approved equivalent diesel engine.		
B. 3-cylinder.		
C. 1.25 liter minimum .		
D. 29 horsepower minimum .		
E. Alternator: 36-volt a/c brushless type.		
F. Propulsion System: 36-volt a/c brushless type.		
G. Hybrid Battery: three (3) 12-volt, 98 Ah gel type.		
SWEEPING SYSTEM:		
A. Dry sweep system with direct throw main broom and hopper located at the front of the machine that can be used independently of components of the scrub system.		
B. Dual side broom sweeping path shall be at least 60" with an independent cylindrical style main broom of at least 36" and a minimum of 12" in diameter.		
C. The sweep path shall fully sweep the squeegee path.		
D. The hopper shall have a minimum capacity of 7 cubic feet and have a variable dump height up to 60".		
E. The machine's sweep system shall be designed to start and stop with the machines motion.		
F. Full sweep and dust control system activation shall be accomplished through a single switch of the operator.		
G. Main broom: polypropylene/wire with eight (8) double rows.		
H. Both the main broom and the side broom height shall be adjustable from the operator's seat.		
I. Main broom height shall be displayed graphically on an LCD screen providing the operator of when the main broom shows wear and needs to be replaced.		
J. When the machine is in sweep or scrub mode and is being propelled backwards, the sweep system main broom shall automatically raise momentarily for a programmable time interval preventing sweeping water from the scrub system into the dry hopper.		
K. Independent switches shall be clearly labeled for hopper dumping tasks and for other sweeper based operations such as but not limited to: filter shake cycle, wet sweep bypass, side broom on/off and height adjustment.		
DUST CONTROL SYSTEM:		
A. The dust control system shall start at the side brooms with water mist dust suppression to keep dust emissions to a minimum.		
B. System shall use skirting at the main broom chamber and a vacuum system to prevent dust from leaving the area of the broom chamber.		
C. Dust filter shall be included and located in the dry debris hopper.		

	COMPLY	
	YES	NO
D. Captured dust shall be shaken directly back into the dry debris hopper by a timed shaker system.		
E. Filter shaker cycle shall be programmable.		
F. Filter shaker system shall be executed by the operator or automatically each time the main broom is raised.		
SCRUBBING SYSTEM:		
A. System shall contain a complete independent scrub system with disc brushes.		
B. Scrub deck shall have three (3) 17" disc brush design providing a minimum of 48" scrub path.		
C. Right side of scrub deck shall project outside the frame of the machine to provide edge scrubbing.		
D. Right side of scrub deck shall pivot inward in the event impact with solid objects shall not damage deck or machine.		
E. Deck pivot tension mechanism shall be manually released to allow operator easier access to the center disc brush.		
F. Upon scrub function activation the brush rotation shall begin automatically whenever the machine is either moving forward or reverse.		
G. Solution flow and detergent dispensing shall be automatically initiated only when propelling machine.		
H. Solution flow rate shall automatically increase when operator increases brush pressure.		
I. Solution flow rate can also be independently adjustable.		
J. Machine shall be designed to cease brushing rotation and stop solution flow whenever the machine remains stationary.		
K. The machine shall be able to operate at pre-programmable flow rate ranging from 1-3 gpm.		
L. A single switch shall activate full scrub, vacuum, and solution system, which shall not begin operation until machine is in motion and stops when machine stops.		
M. Three (3) programmed scrub settings shall be preset with down pressure of up to 400 lbs. at the maximum setting.		
N. Each setting shall have a preset solution flow, increased flow for higher down pressure.		
O. Down pressure and water flow for each scrub setting is programmable if operator desires to deviate from factory settings.		
P. Solution water dispensed to the scrub deck shall be heated with an onboard heat exchanger increasing temperature of up to 20° F warmer.		
Q. Rear squeegee and vacuum system shall be able to be used independently of the scrub system for picking up water.		
R. Double scrubbing shall be accomplished by raising the rear and side squeegees and using the scrub system on any down pressure setting.		
S. Extended scrub cleaning cycles shall take water from the recovery tank add proper dilution of the cleaning chemical and apply it to the scrub deck after solution tank is empty.		
T. Extended scrub system shall not introduce reclaimed water from the floor		

	COMPLY	
	YES	NO
into the solution tank system.		
ONBOARD DETERGENT SYSTEM:		
A. Machine shall be capable of dispensing detergent in the clean water solution flow using detergent laced in a refillable reservoir having a capacity of 5 gallons (split between 2.5 gallons that contain different detergents for different applications).		
B. A single switch shall be provided to provide a momentary 60 second increase in brush pressure and solution flow rate with increased chemical strength.		
C. After 60 seconds the machine shall automatically revert back to green cleaning mode without operator input to reduce detergent and water consumption.		
D. System shall be able to purge all detergent from supply line.		
E. Incorporate a separate detergent pump for dispensing solution to scrub brushes.		
F. Detergent system bottles shall be refillable and shall accommodate and be compatible with various liquid detergents from multiple manufacturers.		
G. Green cleaning characteristics shall include: <ul style="list-style-type: none"> • Low concentration detergent (programmable by user). • Maximum concentration detergent (programmable by user). • One touch 60 second momentary increase in cleaning power by increasing brush pressure, solution flow rate, and detergent concentration (resumes to Green cleaning mode automatically after 60 seconds). • Cleaning with pure water. 		
H. Three (3) programmable cleaning options combining brush pressure, solution flow rate, and detergent concentration that can be selected with a single switch optimizing cleaning performance.		
VACUUM RECOVERY SYSTEM:		
A. Dual vacuum motors delivering 54" of water lift.		
B. High-velocity air flow using a 3" diameter recovery hose.		
C. Vacuum motors shall be designed with a ball float and full recovery tank vacuum fan shutoff.		
D. Vacuum fan shall continue to operate for approximately 10 seconds after squeegee is lifted from floor to clear the vacuum hose of water.		
SQUEEGEE:		
A. Squeegee shall have a minimum width of at least 50" including a quick-release mechanism and break-away design.		
B. Construction: corrosion resistant material and requires no tools for adjustment or replacement.		
C. Squeegee design shall be wide enough to capture water from the scrub deck.		
D. Squeegee frame width shall be equipped with guide wheels at the outer edge of the squeegee to guide the squeegee along walls.		
SOLUTION/RECOVERY TANKS:		
A. Two (2) separate tanks with fixed volume shall handle the solution and		

	COMPLY	
	YES	NO
recovered water.		
B. The solution tank shall have a capacity of 75 gallons and the recovery tank shall be equal to the solution tank in volume.		
C. Tanks shall be capable of handling solution up to 150° F with construction consisting of molded polyethylene or approved equivalent.		
D. Solution tank shall be refillable from the rear of the machine.		
E. The recovery tank shall contain a drain hose with threaded cap to ensure proper seal. A pinch style flow control near the end shall prevent over flowing the drain system.		
F. The location of the drain and design shall ensure the majority of the recovered debris and water exit the tank.		
G. All inner surfaces of the recovery tank shall be easily accessible for final rinse out to prevent odors.		
H. Recovery tank shall require no tools to lift off for deeper cleaning, if desired.		
DRIVE SYSTEM:		
A. High efficiency A/C brushless drive motor coupled directly to a planetary gear box (no belts or chains).		
B. Propel Speed: <ul style="list-style-type: none"> • Transport—5.5 mph • Scrubbing—5.5 mph 		
SOUND LEVEL:		
A. 81 dba.		
DIMENSIONS:		
A. Length: 103".		
B. Width: <ul style="list-style-type: none"> • Without squeegee—48" • With squeegee—53" 		
C. Height: 59".		
D. Weight: 4,600 lbs. GVW		
WHEELS:		
A. All wheels shall have non-marking or similar type material.		
B. Wheels: <ul style="list-style-type: none"> • Front—two (2) front, 16" diameter, deep lug vulcanized solid tire design. • Rear—one (1) drive, 12" diameter, 5½" width. 		
C. Turning: U-turn left/right shall not exceed 104".		
OPERATING SYSTEM:		
A. The machine shall have integrated solution flow and scrub pressure into one-touch pre-calibrated scrub settings.		
B. Once selecting a scrub setting the machine shall adjust the solution flow and scrub pressure accordingly.		
CONTROLS:		
A. Touch pad interface for all cleaning functions.		
B. Machine shall have a rocker foot pedal motion control interface to allow multiple foot locations during operation.		

	COMPLY	
	YES	NO
C. Control shall provide proportional speed control based on pedal position.		
D. Scrubbing/sweeping mode speed shall be no faster than 5.5 mph.		
INTERFACES:		
A. User interfaces: <ul style="list-style-type: none"> • Master key switch • Full recovery tank indicator • Empty solution tank indicator • Hour meter • Battery level indicator • Onboard diagnostics • Solution on/off switch • Vacuum delay shut off • Vacuum on/off switch • Pre-wetting brush switch 		
OPTIONS:		
A. Manufacturers options: <ul style="list-style-type: none"> • Hot water kit • Spray wash kit • Front bumper with front and rear corner roller • Curb light kit • Warning beacon light • Back-up alarm 		
PAINT:		
A. Manufacturers standard color.		
MANUALS:		
A. The following manuals shall be supplied upon delivery of each sweeper/scrubber ordered: <ul style="list-style-type: none"> • Operation—2 • Maintenance—1 • Repair—1 • Parts—1 • Electrical—1 		

UNIT INFORMATION FORM

SWEEPER/SCRUBBER:

YEAR: _____

MAKE: _____

MODEL: _____

SWEEP PATH: _____ INCHES

SCRUB PATH: _____ INCHES

ENGINE:

YEAR: _____

MAKE: _____

MODEL: _____

HORSEPOWER: _____

FUEL TANK CAPACITY: _____ GALLONS

BROOM SIZES:

MAIN BROOM: _____ INCHES

SIDE BROOMS: _____ INCHES

HOPPER:

CAPACITY _____ CUBIC FEET

TANKS:

CAPACITY SOLUTION TANK: _____ GALLONS

CAPACITY RECOVERY TANK: _____ GALLONS

TIRE SIZES:

FRONT: _____

REAR: _____

SERVICING AGENCY:

LOCATED @: _____

TELEPHONE #: _____

CONTACT: _____

(Name & Title)

