

# **NOTICE INVITING BIDS**

## ***Compressed Natural Gas (CNG) Street Sweeper***



**BID DUE DATE:**

***Thursday, January 15, 2015  
until 3:00 PM***

## **SECTION I**

### **BID INSTRUCTIONS AND INFORMATION**

Notice is hereby given that sealed bids will be received in the Dinuba City Hall located at 405 E. El Monte Way; Dinuba, CA 93618 on Thursday, January 15, 2015. An original and two copies of the bid price submittal pages shall be submitted in a sealed envelope and clearly marked: "Bid to Provide One Elgin Crosswind Street Sweeper" addressed to the City of Dinuba's Public Works Superintendent.

#### **Definitions:**

The following meanings are attached to the following defined words when used in these Specifications and the Purchase Agreement. The word "City" means the City of Dinuba, California. The word "Bidder" or "Vendor" or "Contractor" means the person, firm, or corporation submitting a bid on these Specifications or any part thereof.

The following meanings are attached to the following defined words when used in these Specifications and Purchase Agreement. The words "Purchase Agreement", "Contract", "Purchase Order", and "Blanket Purchase Order" mean the contractual agreement between the vendor and the City of Dinuba for the purchase of goods and/or services.

#### **Bid Form:**

The bid shall be made on the form provided for that purpose, enclosed in a sealed envelope, and marked "Bid to Provide One Elgin Crosswind Street Sweeper or Equal" and addressed to the City of Dinuba's Public Works Superintendent 405 E. El Monte Way, Dinuba, CA 93618. If the bid is made by an individual, it shall be signed by that individual, and an address, telephone (and fax number if available) shall be given. If made by a business entity, it shall be signed by the person(s) authorized to execute agreements and bind the entity to purchase orders and/or agreements. A full business address, telephone (and fax number if available) shall be given. No telegraphic, fax or telephonic bid will be considered.

Blank spaces in the bid form shall be filled in; using ink, indelible pencil, or typewriter, and the text of the bid form shall not be changed. No additions to the form may be made. Any unauthorized conditions, limitations, or provisions attached to a bid will render it informal and may cause its rejection. Alterations by erasure or interlineations shall be explained or noted in the bid form over the signature of the Bidder.

#### **Reservation:**

The City reserves the right to revise or amend these Specifications prior to the submittal deadline. Revisions and amendments, if any, will be announced by an addendum to this bid solicitation. If the revisions require additional time to enable bidders to respond, the City may postpone the submittal deadline accordingly. In such case, the addendum will include an announcement of the new opening date.

All addenda shall be signed by the bidder and attached to the bid. Failure to attach any addendum may render the bid non-responsive and cause it to be rejected.

The City Council reserves the right to reject any and all bids received, to take all bids under advisement for a period not to exceed ninety (90) days after the date of the opening, to waive any

informality on any bid, and to be the sole judge of the relative merits of the material and or service mentioned in the respective bids received. The City reserves the right to reject any bid not accompanied with all data or information required.

This bid does not commit the City to award a purchase order or to pay any costs incurred in the preparation of a bid. All responses to this bid solicitation shall become the property of the City of Dinuba.

**Affidavit:**

An affidavit form is enclosed. It shall be completed signifying that the bid is genuine and not collusive or made in the interest or on behalf of any person not named in the bid, that the Bidder has not directly or indirectly induced or solicited any other Bidder to put in a sham bid or any other person, firm, or corporation to refrain from proposing, and that the Bidder has not in any manner sought by collusion to secure for itself an advantage over any other Bidder. Any bid submitted without an affidavit or in violation of this requirement may be rejected.

**Standards for Evaluation of Bids:**

The City staff will use the following priorities, as well as pricing, in determining which bid best meets the needs of the City. The City will be the sole determiner of bid suitability to the City's needs.

Bids will be rated according to the following evaluation criteria:

1. Completeness and understanding of the City's needs
2. Conformance to the requirements of the Specifications
3. Prior experience with comparable bid solicitations from public agencies
4. Specified Vehicle Delivery and Competitive Cost

**Brand Names and Specification Appearance to a Certain Brand or Manufacturer:**

Wherever brand, manufacturer, product name/numbers (or specifications that appear to be for a certain brand or manufacturer) are indicated in these Specifications, they are included for the purpose of establishing a general type and quality of the product required, unless the description specifically says NO SUBSTITUTE. Bidder shall bid a Manufacturer, manufacturer's model number and description along with a complete specification sheet for each item bid. Samples of alternative items being bid may be required. The City of Dinuba will be the sole and final judge of the relative merits of comparative products bid.

**Delivery:**

It is the responsibility of the Bidder to provide all equipment and labor necessary to unload the shipment as directed by the City of Dinuba. The City may refuse shipment if delivery does not comply with this requirement. All deliveries of such items to be furnished shall be made to job sites or City warehouses within the boundaries of the City of Dinuba.

**Pricing:**

In the case of discrepancy between unit bid price and the total bid, the unit price will prevail.

Prices bid are to be FOB Destination, delivered to the City of Dinuba.

### **Buy America:**

The Federal Highway Administration's (FHWA) Buy America requirement at 23 U.S.C. 313 require a domestic manufacturing process for any steel or iron products (including protective coatings) that are permanently incorporated in a Federal-aid project. The statute also provides for a partial waiver of the Buy America requirements when the application would be inconsistent with the public interest or when satisfactory quality domestic steel and iron products are not sufficiently available. Effective December 31, 2013 the FHWA found that a Partial Buy America Waiver was appropriate for the obligation of Federal-aid funds for the purchase of several specific vehicle projects (one being street sweepers).

The FHWA finds that it is in the public interest to grant a partial waiver from the general 100 percent domestic content requirement that applies to Federal-aid highway projects under Buy America. Under this partial waiver, however, **the final assembly of any vehicles purchased with Federal funds shall occur in the United States.**

### **Equipment Guarantee:**

All equipment furnished shall be guaranteed by the vendor for a minimum period of one year against defects in design, material and workmanship. The warranty period will begin with acceptance of the equipment. Warranty repairs to correct discrepancies identified during this period will include labor and materials at no cost to the City. Any faulty equipment that, in the judgment of the City, is not reasonably repairable will be replaced by the vendor as a warranty action.

### **Errors and Omissions:**

The Bidder will not be allowed to take advantage of any errors and/or omissions in these Specifications or in the Bidder's specifications submitted with its bid. Full instruction will always be given when errors or omissions are discovered.

### **Bidders Examination of Requirements:**

The bidder is required to examine carefully the site, the instructions, information and specifications of this document, investigate the conditions to be encountered, the character, quality and quantities of work to be performed as required by this document. Submission of a bid will be considered prima facie evidence that the bidder has made such examination.

### **The Purchase Agreement:**

The bidder to whom the award is made will be issued a purchase order from the City of Dinuba. By reference, a copy of the Notice Inviting Bids, these Specifications and the terms and conditions, will be part of the purchase order. All materials or services supplied by the Vendor will conform to the applicable requirements of the City Charter, City Ordinances, and State or Federal Law covering Labor and Wages, as well as conforming to the Specifications contained herein. In case of default by the Vendor, the City reserves the right to procure the articles or services from other sources and to hold the Vendor responsible for any excess cost incurred by the City hereby.

To expedite payment, the purchase order number shall appear on all invoices, shipping documents and packages.

### **Notice of Intent to Award:**

Approximately two (2) weeks prior to the anticipated City Council meeting awarding a contract/purchase order as a result of this Notice Inviting Bids, the City will notify all bidders of its



Agreement. The Contractor's agents and employees are not and will not be considered employees of the City for any purpose. The Contractor may not, at any time or in any manner, represent that it or any of its agents or employees are in any manner agents or employees of the City. The City has no duty, obligation, or responsibility to the Contractor's agents or employees under the Affordable Care Act. The Contractor is solely responsible for any tax penalties associated with the failure to offer affordable coverage to its agents and employees under the Affordable Care Act and any other liabilities, claims and obligations regarding compliance with the Affordable Care Act with respect to the Contractor's agents and employees. The City is not responsible and will not be held liable for the Contractor's failure to comply with the Contractor's duties, obligations, and responsibilities under the Affordable Care Act.

The Contractor agrees to defend, indemnify and hold the City harmless for any and all taxes and penalties that may be assessed against the City as a result of the Contractor's obligations under the Affordable Care Act relating to the Contractor's agents and employees.

### **Terms and Conditions:**

**DEFINITIONS:** The following meanings are attached to the following defined words when used in these terms and conditions and the purchase order. The word "City" means the City of Dinuba, California. The word "Vendor" or "Contractor" means the person, firm, or corporation providing goods or services to the City.

The word "purchase order" means the Contract, Purchase Order or Blanket Purchase Order issued to the vendor by the City.

**GOODS:** The term "Goods" means the products, goods or other commodities purchased pursuant to the Purchase Order.

**DESCRIPTION OF GOODS:** The Vendor shall produce and deliver the Goods in accordance with the Specifications and the shipping and quantity schedule set forth on the first page of the Purchase Order.

**SUBSTITUTION:** No substitution of Goods ordered will be made unless authorized by the City.

**DELIVERY DATE:** The Goods shall be shipped and shall arrive at the destination specified by the City in strict compliance with the shipping and quantity schedule set forth on the first page of the Purchase Order. Any failure by the Vendor to meet the Required Delivery Date (set forth on the first page of the Purchase Order) will constitute a material default. The Vendor shall notify the City immediately if the Vendor reasonably believes that the Vendor will not be able to meet the Required Delivery Date for any reason. In addition, the Vendor shall promptly provide the City with a schedule that the Vendor reasonably believes it will be able to meet.

**CANCELLATION:** The City reserves the right to cancel any portion of this order with respect to Goods not delivered on or before the Required Delivery Date.

**DELIVERY RISK OF LOSS:** All orders will be F.O.B. destination if not otherwise specified. Risk of loss or damage to the Goods shall remain with the Vendor until the Goods have been delivered to and accepted by the City. All Goods will be received by the City subject to its right of inspection, rejection, and revocation of acceptance under the Uniform Commercial Code. The City will be allowed a reasonable period of time to inspect the Goods and to notify the Vendor of any nonconformance with the terms and conditions of this purchase order. The City may reject any Goods that do not conform to the terms and conditions of this purchase order; any Goods rejected may be returned to the Vendor at the Vendor's risk and expense. Further, where the City rightfully revokes acceptance, the City may, to the extent of any deficiency in its effective insurance

coverage, treat the risk of loss as having rested on the Vendor from the date of the Vendor's acceptance of this purchase order.

**INVOICES:** Two copies of the invoice shall be mailed to the City of Dinuba's Public Works Department not later than the day after shipment is made. Individual invoices shall be issued for each shipment against each purchase order. Invoices shall contain the purchase order number, description of Goods, unit price, quantities billed and extended totals. Payment will be made by the City in accordance with the terms specified on the first page of this Purchase Order.

Payment(s) will be made upon verification and acceptance by the requesting department/division of items received or services performed and receipt of correct billing(s).

**PACKING AND SHIPPING:** Deliveries shall be made as specified without charge for boxing, crating, or storage unless otherwise specified, and Goods shall be suitably packed to secure lowest transportation costs, and in accordance with the requirements of common carriers, and in a manner to assure against damage from weather or transportation. The City's order numbers and symbols shall be plainly marked on all invoices, packages, and shipping orders. Packing lists specifying the quantity, description and purchase order number shall accompany each box or package shipment.

The City's count or weight will be final and conclusive on shipments not accompanied by packing lists. Shipments for two or more destinations when so directed by the City will be shipped in separate boxes or containers for each destination, at no charge.

**ACCEPTANCE OF PURCHASE AGREEMENT:** This purchase order constitutes the City's offer to the Vendor and becomes a binding contract upon acceptance by the Vendor by commencement of performance. Any terms or conditions (including price and delivery dates) proposed by the Vendor in accepting the City's offer, which are inconsistent with or in addition to the terms and conditions set forth in this purchase order, will be void and of no effect unless and to the extent expressly accepted by the City in writing.

**TAXES:** The Vendor shall separately state on all invoices any taxes imposed by the Federal or State government applicable to furnishing of the Goods: provided, however where a tax exemption is available, the tax shall be subtracted from the total price and identified. Municipalities are exempt from Federal excise and transportation taxes. Total prices quoted are to exclude federal taxes. Exemption certificates will be furnished upon request.

**PRICES:** The Vendor represents that prices quoted to or paid by the City will not exceed current prices charged to any other customer or the Vendor for items that are the same or substantially similar to the Goods, taking into account the quality under consideration, and the Vendor will forthwith refund any amounts paid by the City in excess of the price.

**WARRANTY:** The Vendor warrants that all Goods will conform to applicable specifications, drawings, descriptions, and samples, and will be merchantable, of good workmanship in material, and free from defect. Unless manufactured pursuant to detailed design furnished by the City, the Vendor assumes design responsibility and warrants the Goods to be free from design defect and suitable for the purposes intended by the City. The Vendor's warranties, together with its service guarantees, shall run to the City and its customers or users of the Goods and shall not be deemed exclusive.

The City's inspection, approval, acceptance, use of, or payment for all or any part of the Goods shall in no way affect its warranty rights whether or not a breach of warranty had become evident at the time.

**CHANGES:** The City has the right by written notice to change the quantity or specifications of the Goods ordered and the terms of, shipment or packaging of Goods. Upon receipt of any notice, the Vendor will proceed promptly to make the changes in accordance with the terms of the notice. If any change causes an increase or decrease in the cost or performance or in the time required for performance, an equitable adjustment shall be negotiated promptly and the contract modified in writing accordingly. The Vendor shall deliver to the City as promptly as possible, and in any event within 30 days after receipt of change notice, a statement showing the effect of any change in the delivery dates and prices; the statement shall be supplemented within 30 days by detailed specification of the amount of the price adjustment and supporting cost figures. The Vendor's failure to submit the statements within the time limits stated will constitute its consent to perform the change without increase in price, without claim for material rendered obsolete and without change in delivery schedule.

**BUSINESS LICENSE:** Prior to the award of a Purchase Order, you are required to have a City of Dinuba Business License if your company is located in the City of Dinuba; will physically be working in the City of Dinuba; or will be using your own vehicles to deliver to the City of Dinuba. For additional information and licensing requirements, please contact the City of Dinuba's Business License Staff at (559) 591-5924.

**INDEMNITY:** The Vendor assumes all responsibility for, and agrees to undertake, to protect, indemnify and hold the City, the City Council, each of its members, present and future and its officers, employees, and agents, harmless from any and all liabilities, losses, claims, suits, judgments and causes of action for damage, to property and injuries to persons, including death, and from any cost and expense, including recall expenses and attorney's fees, arising out of or related to any of the Goods resulting from the Vendors breach of the terms of the Purchase Order (including the warranties), the Vendor's negligence, or allegations that the Goods are defective in manufacture or design.

**CONFLICT OF INTEREST:** No officer or employee of the City may have any financial interest, direct or indirect, in this Purchase Order, nor may any officer or employee participate in any decision relating to the Purchase Order that effects the officer or employee's financial interest or the financial interest of any corporation, partnership or association in which the officer or employee is, directly or indirectly interested, in violation of any law, rule or regulation.

No person may offer, give, or agree to give any officer or employee or former officer or employee, nor may any officer or employee solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, preparation or any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any way pertaining to any program requirement, contract or subcontract, or to any solicitation or proposal.

**INTEGRATION: AMENDMENT:** This Purchase Order represents the entire understanding of the City and the Vendor as to those matters contained in it. No prior oral or written understanding will be of any force or effect with respect to the terms of this Purchase Order. The Purchase Order may not be modified or altered except in writing signed by both parties.

**INTERPRETATION:** The terms of this Purchase Order should be construed in accordance with the meaning of the language used and should not be construed for or against either party by reason of the authorship of this Purchase Order or any other rule of construction that might otherwise apply.

**SEVERABILITY:** If any part of this Purchase Order is found to be in conflict with applicable laws, that part will be inoperative, null and void insofar as it is in conflict with any applicable laws, but the



remainder of the Purchase Order will remain in full force and effect.

GOVERNING LAW; JURISDICTION: This Purchase Order will be administered and interpreted under the laws of the State of California. The parties consent to the jurisdiction of the State and Federal courts located in Tulare County, California for the resolution of all disputes arising under this Purchase Order, and the parties agree that jurisdiction and venue for proceedings will lie exclusively with those courts. Service of process in any such proceeding (including service of process for the institution of any such proceeding) may be made by certified mail, return receipt requested, directed to the respective party.

ATTORNEY'S FEES: In any dispute, litigation, arbitration, or other proceeding where one party either seeks to enforce its rights under this Purchase Order (whether in contract, tort or both) or seeks a declaration of any rights or obligations under this Purchase Order, the prevailing party will be awarded reasonable attorney's fees, together with any costs and expenses, to resolve the dispute and to enforce any judgment.

## SECTION II SPECIFICATIONS

### Scope of Bid:

Provide one new and unused regenerative air street sweeper having a six wheeled, truck chassis with dual compressed natural gas engines, sweeper controls and switches, 8.0 cubic yard hopper, automatic transmission, 240 gallon water tank, and left and right side broom with variable down pressure controlled from cab.

The following Specification is based upon an Elgin Crosswind street sweeper mounted on an Autocar Xpert Cabover Chassis.

Vendor is responsible for the delivery of a "turn-key" vehicle to the City of Dinuba. This is not a separate purchase of a cab & chassis plus a sweeper body. This purchase is for a combined cab & chassis with installed sweeper body. The awarded vendor shall make all arrangements necessary to build this truck as per the Specifications of this Notice Inviting Bids.

The vehicle shall be new and unused and shall be the latest production model available.

The vehicle shall meet all applicable Federal and State of California Department of Motor Vehicle codes and regulations.

The Vendor shall register the vehicle and provide "E: (Exempt) license plates

Price shall include: Three (3) vehicle keys and all delivery costs.

### Delivery Location:

City of Dinuba  
Public Works Facility  
Attn: Fleet Services Division  
1088 E. Kamm Avenue  
Dinuba, CA 93618

### Chassis:

<b>Chassis (Model Year 2014 or newer Autocar Xpert Cabover Dual or Equal</b>
<ul style="list-style-type: none"><li>• Chassis must be conventional design with 33,000 GVW rating. State chassis make, model and point of manufacture</li><li>• Wheelbase must not exceed 164 inches.</li><li>• Cab to axle must not be more than 138 inches</li><li>• Yield strength of the Rail, High Strength, 120,000 PSI, 10" X 3" X .3125", 1,810,000 RBM</li><li>• For safety, the rear of the sweeper must be equipped with a rear panel to provide under ride protection. When dumping debris, material must not be discharged on top of the rear panel.</li><li>• Front tow hooks and heavy-duty front bumper (capacity 2950 ft. lb.) must be provided.</li></ul>

### **Chassis Engine**

- Engine shall be a dedicated compressed natural gas (CNG) type. The CNG engine shall be installed by the chassis OEM and specifically designed for the chassis. For reliability and serviceability, aftermarket CNG conversions of gasoline or diesel engines are not permitted.
- Truck engine shall be 2010 Emission Compliant, Cummins ISL-G 260, at least 540 cubic inch displacement (8.9 L). Horsepower rating shall be a minimum 260 HP @ 2200 RPM. Torque rating shall be a minimum 660 ft-lbs. @ 1300 RPM.
- Truck engine shall be equipped with a single vertical exhaust system with three way catalyst muffler.
- Engine shall be equipped with air filter with active pre-cleaner, spin-on CNG fuel filter, full flow oil filter.
- The cooling system shall be protected to -34° F.
- Engine shall be equipped with block heater.
- Radiator fan shall be viscous drive type.
- Fuel system shall have at least four, aluminum core, filament reinforced, fuel cylinders that can contain a minimum of 59.4 gallons total diesel fuel equivalent. The system shall have a fast fill port and include high and low pressure gauges. Fuel system shall be able to fill to 3600 psi and meet all North American Natural Gas Vehicle system standards including NFPA-52 requirements.

### **Transmission, Axles, Wheels & Brakes**

- An Allison 3500 RDS series (or approved equal) automatic transmission shall be provided.
- The single-speed rear axle shall have a ratio of 6.17:1.
- Front axle shall be 12,000 and be equipped with taperleaf front suspension and shock absorbers.
- The rear axle shall be 21,000 lb.
- For safety, and to allow the emergency interchange of tires at a job site, the front and rear tires and rims shall be interchangeable.
- Tires shall be tubeless radial tires 14 ply JJR22.5 "G" load rated. The rear axle shall include dual tires for load capacity; singles are not acceptable. There shall be a spare tire and wheel delivered with the unit.
- Rims shall be 10 hole steel hub piloted 22.5 x 8.25.
- Parking brake shall be spring applied rear wheel drum and shoe.
- Brakes shall be full air brakes S Cam with a 18.7 CFM capacity compressor, with automatic slack adjusters and ABS.

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## **Cab**

- Steering shall be full power with dual operator controls.
- Seats shall be air suspension, adjustable dampener, cloth covered for air circulation and include 3 point seat belts.
- Sweeper shall include two (2) outside west coast type mirrors with lower 8 inch convex lens for easy viewing of the side broom during sweeping. Mirrors shall be electric power mirrors allowing the operator to adjust from inside the cab of the sweeper.
- To maximize operator visibility of the curb and sweeping gear, outside mirrors shall be mounted forward of the front wheels.
- For safety during night sweeping, switches shall be illuminated so that they can be readily identified without the use of the cab dome light.
- Switches shall be clearly identified by name and symbol.
- Cab interior environment shall be fully air-conditioned including a fresh air heater/ventilator/defroster.
- Cab shall have full flow through ventilation for optimal temperature control and operator comfort
- Wipers shall have intermittent feature.
- Interior of cab shall have acoustical insulation for low operating noise, automotive type trim, and center sweeper console.
- Dash shall be faced with soft molded plastic.
- All glass shall be tinted safety glass.
- Each operator position shall have adjustable sun visor
- Doors shall be keyed alike locks
- Door windows shall be power vertical slide type.
- Side windows shall have defogger.
- Cab shall include radio installation provision with (2) speakers, am/fm antenna shall be included.
- There shall be a methane detection system located inside the cab.

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### **Instruments**

- Chassis left side operator instrument panel shall chassis OEM, full vision illuminated with tachometer, speedometer, odometer, trip odometer, hour meter, fuel gauge, water temperature gauge, oil pressure gauge, transmission temperature gauge, air pressure gauge and volt gauge.
- Chassis right side operator instrument panel shall chassis OEM, full vision illuminated with tachometer, speedometer, odometer, trip odometer, hour meter, fuel gauge, water temperature gauge, oil pressure gauge, transmission temperature gauge, air pressure gauge and volt gauge
- Chassis engine instruments must include warning light and chime for low coolant level and high coolant temperature to warn the operator of a potential problem before any damage to the engine occurs.
- Console must have left/right primary driver switch
- Hydraulic functions shall controlled by rocker switches located in the cab mounted control panel.
- Truck instruments must include warning lights for battery and cab latch to make sure the cab is locked in position.
- All console switches including transmission controls and all gauges shall be illuminated.
- Intake mounted air restriction indicator with graduations

### **Electrical**

- Batteries should be located in an enclosed accessible environment for long life and ease of service
- Chassis shall have two (2) maintenance free batteries rated at not less than 1900 CCA total, 12 volt.
- Chassis engine shall have a 130 amp alternator
- Chassis lighting shall include sealed multi-beam halogen head-lights, stop lights, tail lights, backup lights, license plate lights, clearance lights, signal lights, illuminated gauges and instrument panel, and directional lights with hazard switch

### **Sweeper Module:**

#### **Sweeper Engine**

- Sweeper engine shall be 8 cylinder, 350 CID (GM 5.7L or equal). Engine shall be EPA mobile off highway certified.
- Horsepower rating shall be 124 HP @ 2800 RPM, 280 lb-ft @ 1800 rpm.
- Engine shall be protected by a dual safety element dry type air cleaner & restriction indicator that indicates it is time to service the filter element.
- Engine shall be filled with 50/50 mixture anti-freeze/water for cold weather storage and/or operation.
- Sweeper engine shall drive the blower fan by a heavy-duty five (5) "V" groove power belt for simplicity and ease of maintenance.
- To accommodate both easy access and sound attenuation, the engine shall be enclosed on both sides by two fiberglass access doors, one on each side of the sweeper body. These doors provide access to serviceable items without tilting the hopper.

## Blower

- The blower shall be rated at not less than 20,000 CFM by an independent test facility.
- Blower shall be driven by a five (5) "V" groove power belt for maximum performance and simplicity of construction, with manual tension adjustment not requiring repositioning of the engine. Maximum operating speed of the fan shall be at least 4,000 RPM.
- Blower shall be a closed face turbine type, 31 3/8 in. diameter, with 9 vanes constructed of Hardox® 500 steel for optimal combination of hardness and abrasion resistance for maximum service life. An open faced fan does not provide adequate combination of air flow and vacuum, and is not acceptable. For longevity of the fan and maximum bearing life, the impeller shall be balanced to within .5 ounce-inches.
- The blower and blower housing shall be constructed using a robotic arc welder for accuracy and repeatability to a minimum of 0.0225 in., including features such as touch sensing, weaving and seam tracking information to precisely lay a quality weld that's in accordance with AWS D1.1 standards. Blowers constructed from cast aluminum are not acceptable.
- The blower housing shall be constructed of 10 gauge steel and lined with Linatex (or equal) for maximum extended wear in abrasive environments.
- Blower housing shall have an inspection door for quick inspections without removing the blower housing or looking into the air exhaust opening.
- Blower housing shall not be an integral part of the hopper. Replacement of the blower housing shall be possible without any cutting and/or welding of the housing and/or hopper.
- The blower shall be mounted and supported on both sides by heavy-duty greasable bearings. Greasing of the bearings shall be possible from ground level, without tilting the hopper. Only greasable bearings are capable of tolerating the fan speeds required to produce simultaneous high air flow and high vacuum levels.
- The blower shall not be directly exposed or open to the dust separator to preclude carry-over of material from the separator into the blower and blower housing.

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### **Pickup Head**

- The pickup head is a spring-balanced, all steel fabricated pickup head with separated upper and lower chambers where pressurized air is blasted from the upper chamber through an elongated blast orifice, to the lower vacuum chamber
- The pickup head shall be not less than 90 inches wide and 30 inches long for a total area of 2700 square inches
- The pickup head shall have a minimum of 14 inch diameter pressure hose that connects the blower outlet with the pickup head. Urethane transition pieces between the pressure hose and the pickup head are not acceptable.
- The pickup head shall have a minimum 12 3/4 inch diameter suction hose with a quick disconnect coupling at the lower area near the pickup head. The quick disconnect enables the operator to inspect the suction hose as well as the inlet area of the pickup head without tilting the hopper.
- The pressure side shall be equipped with an electric actuated pressure relief valve/vacuum enhancer/leaf bleeder, for optimum leaf and light debris sweeping. The control for this feature shall be in-cab positional information for operator. Cable operated valves are not acceptable.
- The front and rear debris curtains shall be removable without removing the pickup head from the unit.
- Sweeping paths:
  - Pickup head only = 90 inches
  - One side broom and pickup head = 117 inches
  - Two side brooms and pickup head = 144 inches
- The pickup head shall be equipped with side mounted adjustable carbide steel runners with a minimum width of 1 1/8 inches for maximum pickup performance and long life
- The pickup head shall be raised and lowered hydraulically by a rocker switch on the control panel inside the cab.

### **Side Brooms**

- The right and left side broom shall be a free floating trailing arm design with inward motion safety to prevent damage when sweeping and encountering a fixed obstacle. The trailing arm shall be of a parallelogram design for simple, non-binding action/motion and for constant bristle and wear pattern
- The side brooms shall be 42-inch diameter minimum, with hydraulically driven rotation
- Brooms shall be pneumatically raised, lowered and suspended
- Adjustable down pressure shall be pneumatically controlled by the operator from the cab
- The broom hydraulic motor drive shall provide not less than 6045 in-lbs. of torque for superior digging power
- The side broom assemblies shall have greaseless pivot pins for ease of maintenance
- The side broom assemblies shall be held in the storage position by a transport hook.
- Each side broom shall be controlled from in the cab by simple rocker switches and shall have an electric tilt motor on the right hand gutter broom
- The side broom control system shall allow the broom to be retracted while sweeping, to provide scrubbing action in front of the pickup head. This feature can be controlled from the operator seat.

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### **Hopper**

- Volumetric capacity shall be 8 cubic yards
- Hopper shall be constructed of 10 gauge steel sides, and ¼ in. steel floor. The hopper shall have a lifetime warranty against corrosion. It shall incorporate a stainless steel liner or lifeliner product. Warranty documentation shall be provided with bid. There shall be an inspection door in the right side of the hopper with hinged door and step.
- A weight actuated full load indicator shall be mounted in the cab on the control panel.
- The hopper tilt angle when dumping shall be a minimum of 50°. Dumping shall be accomplished by tilting the hopper via a two-stage telescopic cylinder. The use of multiple cylinders for tilting the hopper is not acceptable. The use of a moving raker bar which is attached to the rear door inside the hopper in lieu of tipping the hopper for dumping is not acceptable.
- The hopper floor angle shall be a minimum of 10°.
- A removable, adjustable, abrasion resistant "scoop" style steel deflector shall be located at the suction inlet. This scoop is to direct material to the center of the hopper for optimal loading conditions.
- The hopper rear door shall be hinged at the top of the door and opened by means of a hydraulic cylinder. The hopper rear door should open at a minimum angle of 90° to be perpendicular to the hopper opening for maximum dumping action. There shall be a 6" hopper drain in the bottom of door for draining liquids
- Hydraulic cylinder movement shall be controlled by either the console mounted switches or the weather resistant switches located on the right-hand side of the hopper to view discharging of debris out of the hopper during dumping for maximum safety.
- For maximum operator safety the rear hopper door shall have an external door prop.
- The hopper rear door shall include an automatic lock mechanism for a tight fit and optimal sealing between the hopper and the rear door.
- The rear door seal shall be a water resistant heavy-duty reinforced D style rubber seal for optimal sealing. Foam seals that can absorb moisture and freeze are not acceptable.
- Two 34½" x 43½" screens, for a total screen area 3000 square inches, of not less than 11 gauge steel shall be installed to allow air to move freely from the hopper into the centrifugal dust separator. The hopper screens shall be hinged and easily lowered for cleaning and inspection

### **Dust Separator**

- Dirt separation from the air stream shall be accomplished by means of a Labyrinth style dust separator that is installed at the air return outlet of the hopper. The separator shall be designed so that it will not plug with regular debris
- The dust separator shall have a minimum of two easy to open inspection doors allowing inspection and cleaning of the separator interior. Both doors are self-opening when tilting the hopper
- The dust separator shall have a self-opening door made of abrasion resistant steel allowing automatic discharge of debris when tilting the hopper. Cable or other manual/mechanical means required for discharging the separator are not allowed

Continued on next page...



### **Spray Water System PM-10**

- The water tank shall be a removable, 240 gal. total capacity. Constructed of rust proof polyethylene.
- The water tank shall be frame mounted with no part sharing any common wall with the hopper and shall not raise during hopper dumping for better weight distribution.
- A 25ft fill hose with NST coupling with strainer shall be supplied. With a 2 ½' air gap going into the tank.
- A water level gauge shall be provided on the control console within the cab.
- All water lines shall be color coded for easy identification
- The water filter shall be easy to access and clean without tilting the hopper. A ball valve shall be provided at the filter inlet to allow cleaning of the filter without the loss of water from the water tank.
- All water piping shall be external to the operator cab. No water lines capable of leaking or bursting shall be within the cab.
- Three (3) water spray nozzles are located at each side broom for optimal dust control. A pivoting bracket is provided to allow for optimum positioning of the side broom spray nozzles
- Four (4) easily removable water spray nozzles are located inside the hopper. Water spray nozzles that spray only on the outside of the pickup head are not acceptable.
- Three (3) removable water spray nozzles are located at the lower portion of the suction hose for lubrication of the suction hose and to further enhance dust control. And 4 nozzles mounted to the front of the sweeper.
- PM-10 approved water pump to supply water to the pickup head, the suction hose and the side brooms.

### **Hydraulic System**

- Hydraulic pump shall be a belt driven, gear style pump for maintenance free operation, having a flow capacity of 7.7 GPM @ 2500 RPM.
- Reservoir capacity shall be not less than 23 gallons and have an exterior sight gauge. The reservoir shall be located in the enclosed auxiliary engine compartment for quick inspections without tilting the hopper. All hydraulic circuits shall have quick disconnect pressure check ports for ease of maintenance
- Hydraulic oil cooler shall be standard with fresh air intake and accessible without raising the hopper
- To minimize the hazards of potential leakage, all high pressure fittings shall be O-Ring Face Seal (ORFS) type. Other systems are not acceptable.

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### **Pneumatic System**

- There shall be a PR4 type pressure protector for the chassis air system to protect the chassis air system at air pressures below 85 PSI
- A separate air tank for all sweeper air components shall be provided
- All pneumatic cylinders shall be interchangeable
- All pneumatic cylinders shall be rated to 150 PSI and have a separate rod seal and wiper to prevent contamination entering the cylinder
- Each cylinder shall be controlled by a single, two position, solenoid valve mounted on a manifold with common input and exhaust.
- There shall be a filter with a polycarbonate bowl to filter out contaminants down to 5 microns to prevent contamination in the air system.

### **Electrical System**

- Sweeper electrical system shall be independent from the electrical system of the chassis
- Sweeper engine shall have one (1) 945 CCA, 12 volt battery.
- Sweeper engine shall have a 95 amp alternator
- Sweeper shall have an electronic back-up alarm for additional warning and safety when chassis is in reverse
- Sweeper lighting shall include rear identification lights, side broom and rear clearance lights.
- Sweeper warning lights shall include hopper up and hopper full load
- Sweeper wiring harnesses shall be color-coded and "function stamped" with appropriate circuit name every four inches, i.e. "Ignition", "Side Broom" on each wire.
- All electrical circuits shall be protected by automotive style blade fuses.
- Unit shall have LED front and rear rotating beacons and an LED TA870 arrowstick and 2 LED flashing warning lights mounted on the rear door of the unit.

### **Controls**

- All sweeper controls shall be mounted on a stationary central console that allows for use from either right or left positions. This allows the operator to view all important auxiliary engine information from either operating position
- The controls shall include all sweep, spray water, and lighting functions
- The controls for sweeping, spray water, and lighting functions shall be conventional rocker switches
- Controls for auxiliary engine ignition, throttle and side broom down pressure shall be located in the control console

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### **Instruments**

- Sweeper engine instruments shall include tachometer, hour meter, oil pressure, fuel, voltage, and coolant temperature for complete information for the operator on the condition of the auxiliary engine
- Sweeper instruments shall include diagnostic information for the sweeper engine and sweeper functional information to include sweeper engine hours, side broom hours, water level, vacuum enhancer position and hopper door position
- Sweeper engine instruments shall include an auxiliary engine air intake restriction gauge for ease of maintenance, a "raised" hopper indicator and a "full" hopper indicator to notify the operator of hopper load and hopper rear door conditions

### **Paint**

- All visible exterior metallic surfaces shall be coated prior to assembly with polyester powder coat. The paint shall be a minimum of 2 mils thick. The uses of acrylic enamels and/or polyurethane's are not acceptable
- Color shall be white.

### **Manuals**

- An operation manual shall be provided
- A parts manual shall be provided.

### SECTION III BID SUBMITTAL

FAILURE TO COMPLETE ALL ITEMS IN THIS SECTION MAY INVALIDATE BID.

In accordance with your "Invitation to Bid", the following bid is submitted to the City of Dinuba.

**Bid Submitted By:**

<hr/>		
Name of Company		
<hr/>		
Street Address	City	Zip Code
<hr/>		
Telephone Number	Fax Number	
<hr/>		
Printed Name/Title	E-Mail Address	
<hr/>		
Signature	Date	
<hr/>		

**Form of Business Organization:** Please indicate the following (check one);

☐ Corporation ☐ Partnership ☐ Sole Proprietorship ☐ Other: \_\_\_\_\_

**Business History:**

Years in business under your current name and form of business organization? \_\_\_\_\_ Years

If less than three (3) years and your company was in business under a different name, what was that name?

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Bid Submittal: (continued)

**Vendor Name:** \_\_\_\_\_

**Contact for Additional Information:**

Please provide the name of the individual at your company to contact for any additional information:

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Telephone

\_\_\_\_\_  
E-Mail Address

**Addenda Received:** Please indicate addenda information you have received regarding this bid:

Addendum No.	Date Received

Addendum No.	Date Received

☐ No Addenda received regarding this bid.

**Payment Terms:**

The City of Dinuba Payment terms are Net 30. The City does not make pre-payments, or pay upon receipt.

What are your discounted invoice terms: \_\_\_\_\_. ☐ We do not have discounted terms.

**Lead Time:**

What is the lead time from the time the order is placed until delivery to the City of Dinuba?

\_\_\_\_calendar days.

**Contract Extension to Other Cities/Agencies:**

Please state, if requested by the City, if your company would agree to extend the same price, terms and conditions to other Cities/Agencies.

☐ Yes, we would agree to extend the same price, terms and conditions.

☐ No, we would not agree to extend the same price, terms and conditions.

Bid Submittal: (continued)

**Vendor Name:** \_\_\_\_\_

**References:**

Please supply the names of companies/agencies for which you recently supplied comparable goods/services as requested in this bid. A minimum of three (3) references is required; additional references are optional. References from public agencies are preferred.

**Name of Company/Agency:** \_\_\_\_\_

Address: \_\_\_\_\_

Name of Person to Contact: \_\_\_\_\_

Phone Number of Contact: \_\_\_\_\_

Equipment/Vehicle Provided: \_\_\_\_\_

**Name of Company/Agency:** \_\_\_\_\_

Address: \_\_\_\_\_

Name of Person to Contact: \_\_\_\_\_

Phone Number of Contact: \_\_\_\_\_

Equipment/Vehicle Provided: \_\_\_\_\_

**Name of Company/Agency:** \_\_\_\_\_

Address: \_\_\_\_\_

Name of Person to Contact: \_\_\_\_\_

Phone Number of Contact: \_\_\_\_\_

Equipment/Vehicle Provided: \_\_\_\_\_

Bid Submittal: (continued)

**Vendor Name:** \_\_\_\_\_

**Bid Price:**

In accordance with your Notice Inviting Bids, the following bid price is submitted to the City of Dinuba.

Qty	Description	Unit Price	Extended Price
2 each	Street Sweeper Model Year: _____	\$	\$
	Cabover Chasis Model Year: _____		
	Street Sweeper Manufacturer: _____		
	Cabover Chasis Manufacturer: _____		
	Street Sweeper Model Number: _____		
	Cabover Chasis Model Number: _____		
Please specify any additional fees:		\$	
Sales Tax		\$	
Grand Total (Delivered)		\$	
Please indicate any <u>additional</u> features that come with the street sweeper you are bidding (other than the features in the specification)			
Are you bidding the exact item specified in this Notice Inviting Bids? <input type="checkbox"/> Yes      No but we have attached a specification sheet to our bid submittal for the City's consideration.			
<input type="checkbox"/> We have submitted one (1) original and two (2) copies of this bid submittal to the City of Dinuba			
<input type="checkbox"/> We have filled out and submitted Attachment 1 (Bidders Affidavit)			
Vendor Comments: _____			

STATE OF CALIFORNIA

BIDDER'S AFFIDAVIT

COUNTY OF TULARE

\_\_\_\_\_being first duly sworn deposes and says:

1. That he/she is the \_\_\_\_\_ of \_\_\_\_\_  
(Title of Office) (Name of Company)

hereinafter called "Bidder", who has submitted to the City of Dinuba a bid for

\_\_\_\_\_;  
(Title of BID)

2. That the bid is genuine; that the same is not sham; that all statements of fact in the bid are true;

3. That the bid was not made in the interest or behalf of any person, partnership, company, association, organization or corporation not named or disclosed;

4. That the Bidder did not, directly or indirectly, induce solicit or agree with anyone else to submit a false or sham bid, to refrain from proposing, or to withdraw his bid, to raise or fix the bid price of the Bidder or of anyone else, or to raise or fix any overhead, profit or cost element of the Bidder's price or the price of anyone else; and did not attempt to induce action prejudicial to the interest of the City of Dinuba, or of any other Bidder, or anyone else interested in the proposed purchase order;

5. That the Bidder has not in any other manner sought by collusion to secure for itself an advantage over any other Bidder or to induce action prejudicial to the interests of the City of Dinuba, or of any other Bidder or of anyone else interested in the proposed purchase order;

6. That the Bidder has not accepted any bid from any subpurchase order or materialman through any bid depository, the bylaws, rules or regulations of which prohibit or prevent the Bidder from considering any bid from any subpurchase order or materialman, which is not processed through that bid depository, or which prevent any subpurchase order or materialman from proposing to any purchase order or who does not use the facilities of or accept bids from or through such bid depository;

7. That the Bidder did not, directly or indirectly, submit the Bidder's bid price or any breakdown thereof, or the contents thereof, or divulge information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, or to any individual or group of individuals, except to the City of Dinuba, or to any person or persons who have a partnership or other financial interest with said Bidder in its business.

8. That the Bidder has not been debarred from participation in any state, federal or public works project.

Dated this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
(Bidder Signature)

\_\_\_\_\_  
(Title)