



## City of San Antonio

### ADDENDUM I

**SUBJECT:** Formal Invitation For Bid (IFB) 6100008180 PURCHASE OF STREET SWEEPERS scheduled to open Wednesday, November 2, 2016 date of Issue October 18, 2016.

**DATE:** October 26, 2016

**THE ABOVE MENTIONED INVITATION FOR BID (IFB) IS HEREBY AMENDED AS FOLLOWS:**

- 1. THE INVITATION FOR BID OPENING DATE REMAINS WEDNESDAY, NOVEMBER 2, 2016, 2:00 P.m. CENTRAL TIME.**
- 2. Document Section 004 – Specifications / Scope of Services, Item Description changed to read:**

Changed to read:

**SCOPE:** The City of San Antonio is soliciting bids to furnish three turnkey high dump regenerative air street sweepers with dual operator steering controls mounted on a conventional truck cab & chassis, minimum 26,001 GVWR and one turnkey regenerative air sweeper mounted on a conventional truck cab & chassis, minimum 26,001 GVWR in accordance with the Building and Equipment specifications listed herein. This equipment will be utilized by Transportation and Capital Improvements Department for street sweeping services and debris maintenance across the City.

<b>4.3</b>	<b>ITEM</b>	<b>QUANTITY</b>	<b>DESCRIPTION</b>
	<b>1</b>	<b>3</b>	<b>High Dump Dual Steering Regenerative Air Street Sweeper</b>

Changed to read:

- 4.3.1 ENGINE:** Minimum Tier 4i, or better. Engine shall be a turbo-charged diesel engine with a minimum displacement of 409 cubic inches. Horse power shall be a minimum of 200hp at 2300 RPM, with a minimum torque rating of 520 LB/FT at 1600 RPM. Oil filter shall be full-flow, spin on type. Include a two stage, heavy duty dual element dry-type air cleaner with restriction indicator. Engine shall have an automatic shutdown with 30 second delay and warning light and buzzer for low engine oil, high coolant temperature, and low coolant level. Shutdown system shall include automatic override.

Changed to read:

- 4.3.6 AXLES:** The front axle to be a minimum of 10,000 lbs. with a minimum of 10,000 lbs. suspension and include shock absorbers. Rear axle to be minimum 21,000 lbs. with leaf spring suspension of at least 21,000 lbs.

Changed to read:

- 4.3.11 CAB:** Dual steering design. OEM air conditioning, heat, and defrost is required. Cab shall have dual driver positions equipped with air high back adjustable seats with lumbar support. Vinyl seat covers and seat belts are required. OEM tinted windows all around Dual sun visors, dome light, 12 volt power outlet, dual west coast power controlled and heated mirrors with convex mirrors, power windows, power door locks, grab handle on both sides of chassis, 2-speed windshield wipers and washer.. Minimum AM/FM radio shall to be provided. Chassis shall have air horn. Include speedometer, tachometer, oil pressure, water temperature air pressure for brakes, voltmeter, fuel gauge and transmission temperature at both driving positions. Include engine hour meter. Door and ignition locks to be keyed alike. Unit is to be equipped with a DOT triangle warning kit, fire extinguisher, backup alarm and tow hooks. Left and Right convex fender mirrors.

#### **4.3.13 SWEEPER BODY SPECIFICATIONS**

Changed to read:

- 4.3.14 POWER UNIT:** The Sweeper power unit shall be a diesel fueled, water-cooled, and turbocharged electronic industrial engine or proven equal. Piston displacement shall not be less than 275 cubic inch developing minimum 115 HP @ 2200/2500 RPM and peak torque not less than 285 ft. lbs. torque @ 1400 RPM. Engine shall be 4-cycle. Engine to be a Tier 4i minimum. Shall have an appropriate sized DEF tank for the unit. Engine ECU shall be 14 programmed to provide automatic engine monitoring and shutdown when engine problem is detected, such as high coolant temperature or low oil pressure. All engine controls shall be located inside cab.

Changed to read:

- 4.3.16 HOPPER:** Hopper usable capacity shall not be less than 5.7 cubic yards volumetric measurement with a useable capacity of not less than 5.0 cubic yards and will be made of Rust Resistant stainless steel. When hopper is fully tilted to the dump position, the hopper floor shall have approximately a 50° dump angle. When the hopper is stowed, the hopper floor can be cleaned and drained. Hopper shall discharge debris on the right side as viewed from the rear. The hopper dump height shall have an infinite variable of 24 inches up to a minimum 132 inches from tip of discharge chute to the ground with the hopper fully tilted. Hopper door opening shall be a minimum of 68 inches wide by 57 inches tall (68" W x 57"L). Hopper door shall be hydraulically locking. Hopper door shall have two (2) additional mechanical cam locks on door edge opposite from hinges to assure air and watertight operation. Hopper shall have a separate discharge chute to project debris into middle of dump container. Discharge chute shall have side panels on each side to prevent lateral spillage. Discharge chute shall use a rubber seal in the lowered position to prevent leakage while dumping. Unit shall have rubber seals on all doors and opening so that the Hopper shall be airtight. Hopper suction inlet shall be constructed of AR400 material or approved equal or have a bolt-on replaceable wear resistant liner. The dump door and discharge chute shall be actuated by dual hydraulic cylinders that are attached between the door and chute, independent of the hopper. With the dump door cylinder fully extended, the chute must be capable of floating approximately 45° upward when contacted by a dump container on the bottom side without incurring structural damage to the sweeper. The dump door and discharge chute must be capable of being opened fully without tilting hopper to assist with clean out and service. The hopper shall have a two-piece stainless steel screen designed with integral openings for cleaning the hopper above the screen or use of drop-down screens or access panels. Filters and baffles are not acceptable due to increased cost of replacement and cleaning. Hopper load indicator shall be provided with

audible and visual indicators in cab that signals full load by weight. The hopper shall have a vibration floor to assist in dumping.

Changed to read:

4.3.18.1 Four (4) LED rear amber strobe lights shall be mounted on the rear of the engine compartment; thus, providing sweeper with rearward illumination.

Changed to read:

4.3.18.2 Two (2) LED stop/turn/tail lights shall be mounted on the rear of the engine compartment.

Changed to read:

4.3.22 PICK UP HEAD: Pick-up head front curtain lifter or approved equal shall be furnished to provide the pick-up head the ability to sweep large volumes of light debris such as leaves, grass, paper, etc. without causing excessive debris accumulation at the pick-up head inlet. It shall be an independent, mechanical system that is hydraulically, electrically, pneumatically or by vacuum controlled with a switch within the cab of the sweeper. The City may request a performance demonstration of the unit offered

Changed to read:

4.3.24 DUST CONTROL WATER SYSTEM: Water tank to minimum of 220 gallon and built from polyethylene for strength and corrosion resistance. Water system to have cleanable filter located between tank and water pump. Water spray to be supplied by an electric or belt driven pump that will automatically disengage when the water supply is depleted. An in-cab low water indicator shall be provided. A minimum 25 foot long fire hydrant fill hose shall be provided with 2.5" NST coupling to fill water tank. A minimum 2 inch air gap shall be provided between water fill tube and water tank. Hydrant hose shall include a hydrant wrench and hose storage rack, water spray nozzle to be located at the pickup head, inside the hopper deluge with conical nozzles to facilitate a quick cleanout. A high pressure/low volume wash down system shall be supplied and shall include a 25 foot high pressure hose, belt or hydraulically driven pump and hand wand with a 36" lance. System shall be a minimum of 1500 psi with minimum 3GPM.

Changed to read:

4.3.25 STORAGE COMPARTMENTS: A Storage compartment shall be fabricated of welded steel or aluminum plate and have a total capacity of not less than 4.5 cubic feet and a lockable door.

4.4	ITEM	QUANTITY	DESCRIPTION
	2	1	Dual Steering Regenerative Air Street Sweeper

Changed to read:

4.4.1 ENGINE: Minimum Tier 4i, or better. Engine shall be a turbo-charged diesel engine with a minimum displacement of 409 cubic inches. Horse power shall be a minimum of 200hp at 2300 RPM, with a minimum torque rating of 520 LB/FT at 1600 RPM. Oil filter shall be full-flow, spin on type. Include a two stage, heavy duty dual element dry-type air cleaner with restriction indicator. Engine shall have an automatic shutdown with 30 second delay and warning light and buzzer for low engine oil, high coolant temperature, and low coolant level. Shutdown system shall include automatic override.

Changed to read:

- 4.4.6 **AXLES:** The front axle to be a minimum of 10,000 lbs. with a minimum of 10,000 lbs. suspension and include shock absorbers. Rear axle to be minimum 21,000 lbs. with leaf spring suspension or proven equal of at least 21,000 lbs.

#### 4.4.13 **SWEeper BODY SPECIFICATIONS**

Changed to read:

- 4.4.14 **POWER UNIT:** An auxiliary water cooled turbo charged diesel engine shall be provided to power the sweeper. Minimum horse power rating of 99 hp at 2,200 rpm and a minimum displacement of 275 cubic inches. Engine to be equipped with full flow spin-on oil filter, fuel water separator and fuel filter. Wet sleeve type cylinder construction is required. Unit shall have a heavy duty two-stage dry type air cleaner with centrifugal pre-cleaner and air filter restriction indicator. A 12-Volt electrical system with a minimum 65 amp alternator is required. Injector pump shall have centrifugal type variable speed governor for speed control. Sweeper auxiliary engine to share the fuel tank and batteries with chassis engine. Shall have an appropriate sized DEF tank for the unit. Unit shall have an automatic shutdown system when coolant temperature is too high, coolant level is too low, or oil pressure is too low.

Changed to read:

- 4.4.16 **HOPPER:** The hopper volumetric capacity shall not be less than 7.3 cubic yards with an operating load capacity of not less than 6 cubic yards. . Hopper will be constructed of a minimum Rust Resistant stainless steel to include dump door, left and right inspection doors dust separator and screen. Dumping shall be accomplished by means of hydraulic actuated cylinders attached to a raker bar moving inside hopper, or by a tilting type hopper with a tilt angle of 53 degrees. Controls to be inside and outside for easy access. The hopper dump door to be opened, closed and locked hydraulically. Large inspection doors provided on left and right side of hopper. Hopper shall be airtight through the use of rubber seals on all doors and openings. Include two work lights (LED) at rear of hopper to illuminate the dump area. Include amber LED strobe light with limb guards mounted at the top rear of the hopper. Include two rear high mounted LED yellow or amber flashing lights. Include an LED arrow stick, Whelen TACF85LH or approved equal directing traffic left, right or both be mounted on the rear of the sweeper in line of approaching traffic from the rear. Controls shall be mounted inside of the truck cab.

Changed to read:

- 4.4.17 **HYDRAULICS:** Hydraulic power shall be used to operate all broom rotation and lifting functions. A gear driven pump with 25 gallon tank with spin-on filters and includes tank level indicator and temperature indicator are mandatory. A 12 Volt DC auxiliary hydraulic system shall be provided which may be used to operate all hydraulic functions without starting the auxiliary engine.

Changed to read:

- 4.4.18 **BLOWER:** A heavy duty steel or durable substance equivalent turbine type blower that is balanced to within 4 grams shall be provided to create air pressure and suction Blower to be belt driven by the auxiliary engine or hydraulic and have a minimum 17,000 CFM rating Blower housing to incorporate a replaceable rubber lining on the inside of the housing.

Changed to read:

**4.4.21 DUST CONTROL WATER SYSTEM:** Water tank to minimum of 220 gallon and built from polyethylene for strength and corrosion resistance. Water system to have cleanable filter located between tank and water pump. Water spray to be supplied by an electric or belt driven pump that will automatically disengage when the water supply is depleted. An in-cab low water indicator shall be provided. A minimum 25 foot long fire hydrant fill hose shall be provided with 2.5" NST coupling to fill water tank. A minimum 2 inch air gap shall be provided between water fill tube and water tank. Hydrant hose shall include a hydrant wrench and hose storage rack, water spray nozzle to be located at the pickup head, inside the hopper deluge with conical nozzles to facilitate a quick cleanout. Deluge system shall be mounted on the inside of the rear door of the sweeper. A high pressure/low volume wash down system shall be supplied and shall include a 25 foot high pressure hose, belt or hydraulically driven pump and hand wand with a 36" lance. System shall be a minimum of 1000 psi with minimum 3GPM



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