

Name: City of Surprise PM-10 Sweeper Application 4608
 Id: SUR-21-SW-002
 Agency: Surprise

This application was signed by John McFarland on 9/10/2020
 16000 N. Civic Center Plaza
 Surprise, AZ 85374
 (623) 222-1000

Roadway Types

The types of roads the requested sweeper will sweep

Arterial	Yes
Collector	Yes
Residential	Yes
Other	No
Description of Other Lanes	

Roadway Type Information

Details about the types of roads to be swept

Arterial Sweep Cycle Length (measured in days between sweepings)	8
Arterial Lane Miles to be Swept per Cycle	48
Arterial Average Weekday Traffic per Lane Being Swept	4,000
Collector Sweep Cycle Length (measured in days between sweepings)	8
Collector Lane Miles to be Swept per Cycle	44
Collector Average Weekday Traffic per Lane Being Swept	1,500
Residential Sweep Cycle Length (measured in days between sweepings)	10
Residential Lane Miles to be Swept per Cycle	220
Residential Average Weekday Traffic per Lane Being Swept	250

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Proximity to PM-10 Monitor

Information about the sweeping route's proximity to a PM-10 monitor

Will the requested certified sweeper be used within 4 miles of a PM-10 monitor?	Yes
Names of PM-10 monitors within 4 miles of sweeping route	Dysart

Additional Information

Additional information about the sweeper not covered in other sections

Is the agency willing to provide MAG with additional information?	Yes
Number of Certified Sweepers Operated by Agency	8

Geographical Area

Information about the geographical area that the sweeper will operate in

Geographical area that the requested street sweeper will operate	Bell Road and Dysart intersection west to Bell Road and 183rd Avenue, Bell Road and Dysart intersection south and west to Dysart and Peoria, and west until Peoria and Perryville intersection.
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Local Resource Allocation

The resources prepared to make use of the street sweeper

Have local resources been committed to support the operation of the sweeper?	Yes
Details about local resources	One employee, average annual cost of \$60,000. Annual dump fees average \$19,000. Fuel and maintenance average \$16,000 per year.

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Replace a PM-10 Certified Street Sweeper

Additional information about the sweeper being replaced

Number of hours in service on the sweeper that is being replaced	6,600
The month and year that the older certified sweeper was put into service	August 2012
Number of miles (including deadhead miles) on the sweeper that is being replaced	48,000
Percent of time older sweeper was out of service	25%
Additional information about out of service percentage	Engine overheating spontaneously, pick up tube damage, gutter broom assembly malfunction, electrical problems, general maintenance.

Sweeper Purpose

What the requested sweeper will be used for

Replace a Noncertified Street Sweeper	No
Expand Service Area	No
Increase Sweeping Frequency	No
Replace an Older Certified Street Sweeper	Yes

Funding Information

Summary of the estimated costs of the requested sweeper

Procurement Method	ADOT Procurement
Total Estimated Cost of Sweeper	\$244,597.53
Total Eligible Costs	\$244,597.53
Ineligible Costs	\$0.00
Agency Cash Match	\$13,942.06
Total Agency Share of Costs	\$13,942.06
Federal Share of Costs	\$230,655.47

BALAR EQUIPMENT

11023 N 22ND AVE.
P.O. BOX 83118
PHOENIX, AZ 85029

QUOTATION

Quote Number: 820232
Quote Date: Aug 19, 2020
Page: 1

Voice: 602-944-1933
Fax: 602-944-9687

Quoted To:

CITY OF SURPRISE
ACCOUNTS PAYABLE
16000 N. CIVIC CENTER PLAZA
SURPRISE, AZ 85374

Customer ID	Good Thru	Payment Terms	Sales Rep
SURPRISE	9/18/20	Net 10 Days	JK

Quantity	Item	Description	Unit Price	Amount
1.00	SCH-A7000	SCHWARZE A7000 TORNADO-AIR SWEEPER BODY POWERED BY A 130HP CUMMINS TIER IV AUXILLARY ENGINE MOUNTED ON A PETERBILT 220 CHASSIS SEE ATTACHED BUILD SHEET FOR DETAILED SPECIFICATIONS	222,128.00	222,128.00
			Subtotal	222,128.00
			Sales Tax	18,469.53
			Freight	4,000.00
			TOTAL	244,597.53

A7 Tornado TIER IV



ELECTRONIC BUILD SHEET

Purchase Order Number	Special Option Request
	Customer Supplied Chassis

SOLD TO: Dealership Name		CUSTOMER NAME	
Balar Equipment		City of Surprise	
Address:		Address:	
Contact Name:	Jim Kries	Contact Name:	Jacob Moreno
Contact Phone:	602-722-0131	Contact Phone:	623-222-6232

A7 TORNADO STANDARD EQUIPMENT (with power module selection)

SWEeper ENGINE	PICKUP HEAD
John Deere 4045 Tier 4 engine	90" x 36" Sweeping Head with Rubber Blast Orifice
Fuel water separator	3/8" thick, 14" dia Pressure hose, 14" Suction Hose
3-point safety engine shutdown device	Sweeps-in-Reverse
Battery and 50 gallon fuel tank shared with chassis	Doublewide full length carbide drag shoes Warranted against wear-out, two years/2000 hours, prorated.
90 amp alternator	
2 year warranty on Aux Engine	DUST CONTROL SYSTEM
HYDRAULIC SYSTEM	Twin Electric diaphragm water pumps with inlet restriction
25 gallon vented hydraulic reservoir, w/shut-off valves	60 PSI, 6.0 gpm
Tank mounted level and temperature indicator	Water tank capacity 250 gallons, polyethylene
Hydraulic pressure, 2500 psi	25-foot long fire hydrant fill hose
Spin-on 10 micron return filter	50 mesh cleanable filter, with shut off valve
9000 BTU oil to air radiator type oil cooler	Water spray nozzles shall be provided as follows:
12-volt DC hydraulic backup system	Five at pickup head, two nozzles inside hopper
DUST SEPERATOR	Two at gutter broom, per option selected
Centrifugal dust separator, 29000 cu in. with 1680 sq in door	Two nozzles in suction tube, two at front axle
HOPPER	An air purge system for flushing water lines
Mild Steel, 8.4 CuYd, 7 CuYd usable Capacity	OPERATING CONTROLS AND INSTRUMENTS
Screens - 5615 square inches, saw tooth design	Aux engine control with full color display on console:
Twin dumping cylinders, 51 degrees	Keyed ignition, electronic throttle, leaf bleeder
Rear door hydraulically opened, closed and locked	Oil pressure gauge, water temperature gauge
Dual 20" X 32" watertight inspection doors, 1 left, 1 right	Voltmeter, tachometer, and hour meter
External weatherproof dump switches	Diagnostic gauge for Aux Engine, overweight warning.
Shroud enclosing the auxiliary engine	Selectable sweep or lift in reverse, system standby, in-cab tilt,
BLOWER	variable speed brooms. All other STD sweeper function switches to
Closed face turbine 10 curved blades, 32.75" dia. by 5" wide	Included for standard and options selected
500 brinell hardness abrasion resistant steel	Swiveling console for left or right sweeping
Fully balanced within 1.5 grams on both sides	SAFETY EQUIPMENT
Vacuum enhancer, w/indicator in cab	Two body props to lock hopper in raised position
Remote grease lines for fan bearing	Rear Amber LED Strobe With Guard
SWEeper WARRANTY	2 rear yellow alternating LED flashing lights
12 Months 1200 Hours	Slow moving vehicle emblem, backup alarm,
	5-lb fire extinguisher, and a warning triangle kit.

QTY	DESCRIPTION	PRICE
POWER MODULE OPTIONS		
	134HP John Deere Tier IVF	
1	130HP Cummins Tier IVF	
Subtotal Auxiliary Engine Options		
SWEEPING HEAD OPTIONS		
1	Standard w/rubber blast orifice	204L13
	Sweep Head Deluge	204H52
	Side Blast Head	204S00
Subtotal Sweeping Head Options		

GUTTER BROOM OPTIONS			
1	Gutter Broom, Dual W/Power Tilt	203W42	
1	Gutter Broom, GEO Dual	203M91	
	Gutter Broom, RH W/Power Tilt	203X27	
	Gutter Broom, GEO RH	203M89	
	Gutter Broom, GEO LH	203M90	
	Gutter Broom, Poly Segments, each	203662	
	Gutter Broom, In-Cab Down Pressure	204H70	
1	Standby, Full w/Throttle Ramp	204B08	
1	Variable Speed Gutter Broom(S)	203V60	
Subtotal Gutter Broom Options			
MISCELLANEOUS OPTIONS			
	Manual, Sweeper, Additional Copy (Paper)	203689	
	Automatic Lubrication System Vogel	203842	
	Auto Lube Sys.Vogel Sweeper Only	203G87	
	Auto Lube, NLG2 Sweeper Only	204Q70	
1	10 point remote grease manifold	204N30	
1	Camera System, Single	203X81	
	Camera System, Dual (Must list location of 2nd camera in notes)	203X82	
	Camera System, Three (Must list location of 2nd & 3rd camera in notes)	203Z99	
	Camera System, Four w/ Split Screen (Location of camera 2, 3, 4 in notes)	204P54	
	Alarm, Smart Backup, 97db-107db	204P76	
	Work Deck With Railings (Not Compatible with 350 Gallon Water Tank)	204Q05	
	Leak Detection Kit	204R11	
Subtotal Miscellaneous Options			
WATER SYSTEM OPTIONS			
1	Water Tank, Standard 250G or	204L11	
1	Water Tank, W/ Add. 350G*	204W62	
	Water Tank Sight Gauge side of tank	203Q24	
1	Water Tank Low Level Alarm & Ind.	203676	
1	Spray Bar, Front	203680	
1	Spray Bar, Hopper Add. 4 Nozzles	203681	
	Spray Bar, Hopper Add. 7 Nozzles	203939	
	High Pressure Washdown Wand W/ Pump		
	High Pressure Washdown W/ 50' Hose Reel		
	Additional 100 Gallon Rear Water Tank	204Q63	
	Pressure Side Water Injector	204P87	
Subtotal Water System Options			
HOPPER OPTIONS			
1	Hopper, Standard (8.4 CuYd)	204K16	
	Hopper, W/ Remote DD Screens		
	Auto Drop Down Screens (All Hoppers)	204L38	
1	Hopper Drain - None or	203G45	
	Hopper Drain 6" (SS)	203C35	
	Dual Hopper Drain, 6" (SS)	204K28	
	Hopper Sound Suppression	203640	
	Hopper Dump Assist Shaker	204R41	
1	Hand Hose- None	203G46	
	Hand Hose, 8" Spring Boom (Remote Engine Throttle Included)	203O66	
	Hand Hose, 8" Power Boom (Remote Engine Throttle Included)	204K56	
	Hand Hose, 8" Power Boom HD (Remote Engine Throttle Included)	204K65	
	Pendant Control for Power Boom	204N45	
	Hand Hose Extension 4 Feet Long Rear Mount		
	Hand Hose Extension 4 Feet Long Front Bumper Mount		
	Hand Hose Water Nozzle	204K97	

	Rear Bumper Stow & Go - Rear Tube Holder	204W85	
1	Hopper Deluge- None	204H59	
	Hopper Deluge, Conical Spray	203B77	
	Hopper Deluge, 4 Nozzle, Conical Spray	204G28	
1	Load Weight Alarm & Indicator		
1	Hopper Up Alarm & Indicator		
1	Hopper Aux. Engine Screen Cover		
1	Hopper Door Open Indicator		
	Hopper Dump Switches Exterior Right Side Only (In Lieu of Standard Left)	204S03	
	Hopper Dump Switches Exterior , Both Sides	205S03	
	Hopper,High Strength Stainless Steel ~LIFETIME WARRANTY~	204L98	
	Hopper W/ Remote DD Screens High Strength Stainless Steel ~LIFETIME WARRANTY~	204P65	
	Hopper, 304 Stainless Steel ~LIFETIME WARRANTY~	204F45	
	Hopper W/ Remote DD Screens (304 SS) ~LIFETIME WARRANTY~		
Subtotal Hopper Options			
AUXILIARY ENGINE OPTIONS			
	Block Heater, Aux Engine	203060	
	Hydraulic Filter Restriction Alarm&Ind	204M04	
1	Low Hydraulic Level Indicator In-Cab		
	Air Filter Restriction Indicator (In-Cab)	203064	
Subtotal Auxiliary Engine Options			
REAR LIGHTING OPTIONS			
1	Strobe, Rear W/Guard LED (Std) 1 ea or	203Y67	
	Strobe, Rear LED 1 each or	202Z71	
	Strobe, Dual Rear LED	203Z73	
	Strobe, Dual Rear W/Guard LED	203Z74	
	Arrowboard, Traffic Guide	203685	
1	Arrowboard, Traffic Guide, LED	204C21	
	Barlight, Rear LED	203U22	
	Barlight, Rear W/Guard LED	203U21	
	Floodlight, LED	203V45	
CAB LIGHTING OPTIONS			
	Strobe, Cab Cabover LED		
	Strobe, Cab Conventional LED	204B50	
	Strobe, Cab W/Guard Cabover LED	203Y95	
	Strobe, Cab W/Guard Conventional LED	204B51	
	Barlight, Cab Conventional LED	204T22	
	Barlight, Cab W/Guard, Conventional,LED	204B10	
	Barlight, Cab Cabover LED		
	Barlight, Cab W/Guard, Cabover LED		
Subtotal Lighting Options			
SPECIAL PAINT OPTIONS			
1	Paint, Standard	204F67	
	Paint, Special: Sweeper Unit Only	203N66	
	Paint, Special: Chassis Only	203N67	
	Enter DuPont Imron Paint Code Below: Special Paint Color: _____ Special Paint Code: _____		
1	Decal Kit	204E41	
Subtotal Special Paint			

CHASSIS MOUNTING OPTIONS			
	FL M2 33K, 184" 200HP DS 2500 '20 (includes Air Dryer, Air Seat & Air Horn)	67994	
	FL M2 33K, 164" 200HP DS 2500 '19 (includes Air Dryer, Air Seat & Air Horn)	68007	
	IH 4300 200HP Cummins Dual Steer '20 (Custom Order)	Call Factory	
1	Peterbilt 220 33K 220HP RH Steer '20 (includes Air Dryer & Air Seat)	68017	
	Peterbilt 220 33K 220HP Dual Steer '20 (includes Air Dryer & Air Seat)		
CUSTOMER SUPPLIED CHASSIS			
	Customer Chassis Mounting Fee	00888162	
<i>Customer supplied chassis specs must be approved by Schwarze Product Management prior to quoting end user</i>			
<i>Final Chassis Specs must be submitted and signed off by Product Management at the time of submitting purchase order to Schwarze</i>			
CHASSIS DELIVERY DATE TO SCHWARZE		CHASSIS DEALER CONTACT NAME	
CHASSIS DEALERSHIP NAME		CHASSIS DEALER CONTACT NUMBER	
TRUCK KIT OPTIONS- MUST PICK 1			
	IH 4300 ~ Under cab exhaust	204Q14	
	Freightliner M2 (184") ~ Under cab exhaust	204Q13	
	Freightliner M2 (164") ~ Between Rail Exhaust	204W62	
	Autocar Xpert ~ Behind cab exhaust	204Q15	
1	Peterbilt 220 ~ Behind cab exhaust	204Q16	
	Kenworth K370 ~ Behind cab exhaust	204Q17	
M2 CHASSIS OPTIONS			
	Mirror, 12" Parabolic, Set	203616	
	Air Filter Restrict Ind Chassis	203465	
	Tire & Rim, Spare M2	203468	
	Block Heater	203469	
	Horn, Air M2	203C53	
	Rim, Spare M2	203620	
	Magnet, Bar, 90" FL M2	204A38	
	Magnet, Bar, 87" Self Dumping, FL M2	203X78	
		Subtotal M2 Chassis Options	
IH CHASSIS OPTIONS			
	Air Dryer, Bendix AD9*	203018	
	Mirror, 12" Parabolic, Set	203616	
	Air Filter Restrict Ind Chassis	203465	
	Tire & Rim, Spare IH	203476	
	Block Heater, IH 4300	203C83	
	Tow Hooks, IH	203037	
	Rim, Spare IH	203478	
	Magnet, Bar, 90" IH	204A37	
	Magnet, Bar, 87" Self Dumping, IH	204D68	
		Subtotal IH Chassis Options	
CABOVER CHASSIS OPTIONS			
	Mirror, 12" Parabolic, Set (Autocar Only)	203616	
	Magnet, Bar, 90"		
	Air Filter Restrict Ind Chassis	203465	
	Tire & Rim, Spare	203X83	
	Horn, Air		
	Gauge, Transmission Temp	203467	
1	Gauge, Hour Meter (Right Hand Only Kenworth/Peterbilt)	66504	
	Magnet, Bar, 87" Self Dumping, Kenworth/Peterbilt	204P03	
		Subtotal Cabover Chassis Options	

