

# INVITATION FOR BID

Bid # 2013-RD104

## Self-Propelled Road Broom

### TECHNICAL SPECIFICATIONS

Bid # 2013-RD104

## Self-Propelled Road Broom

List Model Bid: \_\_\_\_\_

### MINIMUM SPECIFICATIONS

### EXCEPTIONS

#### 1. TYPE

- a. Self-Propelled Road Broom Current Model Year.
- b. Broom shall be located in front of front wheels.

#### 2. ENGINE

- a. Rear Mounted.
- b. Minimum 80HP diesel – Tier III Compliant.
- c. Air Cleaner – dual element dry-type with pre-cleaner at cab height
- d. 12 volt electrical system
- e. 120 ampere alternator and 800 CCA battery

#### 3. INSTRUMENTS

- a. All gauges to be assembled on a common dash with easy visibility from operator's seat
- b. Gauges to include but not limited to – hour meter, tachometer, oil, water temp., and fuel gauge.
- c. Traffic horn with button and minimum 95 decibel reverse alarm

#### 4. LIGHTING

Shall include two headlights, two rear work lights, stop, tail and turn signals with controller and flasher (including 4-way flasher) and rotating amber beacon (no strobe light will be accepted)

#### 5. CAB

- a. Tinted Safety glass.
- b. Door lock
- c. Windshield wiper w/ washer
- d. Front and rear padded insulation
- e. Floor Mat
- f. Rollover protection structure
- g. Heater, defroster and pressurized air conditioner
- h. AM/FM Radio
- i. Tilt and telescoping steering column
- j. Hand control for forward and reverse
- k. West coast mirrors
- l. Deluxe suspension seat w/ gas shock absorbing

**6. TRANSMISSION**

- a. Fully Hydrostatic, with speeds infinitely variable to 22 MPH
- b. A 10 micron suction filter will provide oil to hydrostatic pump.
- c. Foot control shall be used for forward and reverse, as well as dynamic braking.
- d. Hydrostatic control to be spring loaded to return to positive neutral position when foot removed. To prevent inadvertent movement when stationary with engine running.

**7. FRAME**

- a. Shall be solid welded heavy structural steel, front and rear bumpers.
- b. Rollover protection structure tested to SAE J1040 standards
- c. Canopy with rear view mirrors

**8. STEERING**

- a. Shall be open center orbital type power steering unit with power beyond and dead steering capabilities..

**9. BRAKES**

- a. Shall be self-adjusting hydraulic drum on rear and disc on front axel, wit dual master cylinder,
- b. A mechanical type parking brake with indicator light shall be furnished

**10. WEIGHT**

- a. Shall be a minimum of 5,000 pounds excluding optional equipment.

**11. DIMENSIONS**

- a. Height – 103 inches with canopy
- b. Length 172 inches
- c. Transport width 98 inches
- d. Turning radius 13.5 ft (inside)

**12. BRUSH CORE**

- a. Shall be steel constructed for use with 35 inch diameter wafer type brush segment
- b. Shall be 10 inches in diameter in length, filled with polypropylene Wafers
- c. Brush to be powered by hydraulic motor independent of travel speed, with direct drive motor located in side of brush core.
- d. Rubber shield shall be provided to deflect flying debris.
- e. Brush assembly shall have a wrap-around type metal shield the length of brush core and covering 140 degrees, with front deflection shield (rubber),

**13. SWEEPING ANGLE**

- a) Unit shall be capable of sweeping angles from 30 degrees left to 30 degrees right
- b) The circle swing frame mounted on a minimum of 8 heavy-duty tapered bearing with debris guard

**14. BROOM CONTROLS**

- a. Joystick control shall be conveniently located on operator's station and include the following controls for the brush at a minimum – stop, raise, lower, float or lock in ant desired position

**15. WATER TANK**

- a) Shall be rust proof with minimum of 75 gallons and a high efficiency electric pump and galvanized spray bar with 8 spray nozzles

**16. HYDRAULIC**

- a. Hydraulic tank shall be 25 gallons capacity with single level and temperature gauge
- b. Shut-Off valves shall be located on hydraulic tank to close while changing filters
- c. A 100 mesh screen will provide for oil exiting the tank and a 10-micronfilter for oil returning to the tank

**17. FRONT-AXEL**

- a. Shall be oscillating type, with hydraulic disc brakes
- b. Shall be mounted to heavy-duty bolter, which oscillates on a center-mounted pin, connected to front bumper

**18. REAR-AXEL**

- a. Shall be  $\frac{3}{4}$  ton truck type
- b. With hydraulic drum brakes powered by a fixed displacement hydrostatic motor through a two speed gear box (low gear to provide sweeping power and high gear for road use)
- c. Leaf springs with minimum 3,500 pound load capacity

**19. PAINT**

- a. Prime painted, with rust inhibitor primer and top coated with industry quality urethane paint

**20. MANUALS**

- a. Complete set of mauals, parts book, service manual and operators manual at a minimum

**21. WARRANTY**

- a. Warranty shall be minimum of 1 year – 1,000 hours from time of delivery against operational failure caused by defective material or facility workmanship occurring during normal use

**22. MISCELLANOUS**

- a. Have spare tire and wheel and complete set of all filters

BID FORM (1)

Self-Propelled Road Broom  
Bid # 2013-RD104

VENDOR:

PRICE - One (1) New Current Model Year Self-Propelled Road Broom

VENDORS or  
VENDOR(S):

Vendor:	
Make/ Model	Price
	\$
	\$
	\$
	\$

TOTAL COST  
Manufacturer Discount - Deduct  
**\*\*NET PRICE Delivered\*\***

DELIVERY TIME\*\*\*

Vendor delivery time from date of order including set-up  
\_\_\_\_\_ (Approx. # of Days).

\*\*\*This will be an important factor in bid analysis.

Name of Bidder:

\_\_\_\_\_

Company: \_\_\_\_\_

Date: \_\_\_\_\_