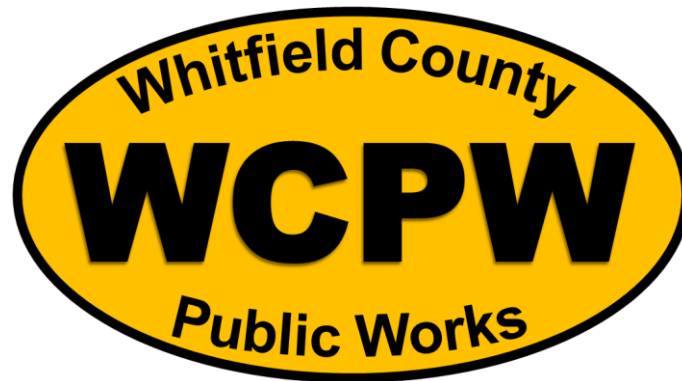


# INVITATION TO BID (ITB)



**WHITFIELD COUNTY, GEORGIA**

**ITB#**

**PW-100-4-200-SM-HERB-18**

**(1) SKID MOUNT HERBICIDE SYSTEM**

Date: **MARCH /1/2018**

Time: **2:00PM**

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**BRIAN MCBRAYER  
STAFF ACCOUNTANT**

**(706) 275-7504 / (706) 275-7501 fax**

**USE THIS FORM ONLY**  
**ONLY BIDS SUBMITTED ON THIS FORM SHALL BE CONSIDERED**

The Whitfield County Board of Commissioners will receive sealed bids until 2:00 PM EST on  
MARCH 1, 2018 for ITB# 100-4-200-SM-HERB-18 .

**SPECIFICATION**

**Skid Mounted Herbicide System**

It is the intent of this specification to describe a complete and operable skid mounted, chemical spraying system for the controlled application of herbicides. The spray system will be designed and constructed for convenient operation and simple installation on a flatbed or in a dump body.

Only new (unused) current standard production models built for the U.S. market will be considered acceptable. For equipment being offered to qualify as a standard production model, the manufacturer (vendor) must provide a list of three users that have operated their equipment for a minimum of three full spray seasons. Printed literature and specifications describing equipment as offered must be included with proposal. Any recent changes and features offered as standard or required for the intended use of the specified equipment will be supplied. All accessories required by these specifications shall be identical in quality and design to those normally supplied and installed for sale through regular commercial channels.

**NOTE:** Any bidder exceptions to the specifications will be annotated in the "Not as Specified" column and explained fully.

<u>MEETS</u> <u>SPECS</u>	<u>DOES NOT</u> <u>MEETS</u> <u>SPECS</u>
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**General Description:** Shall be a spray system that includes but is not limited to a water tank, centrifugal spray pump, chemical tank(s), skid and saddle, spray head(s), handgun. All plumbing and related components in the water and chemical systems must be non-corrosive type, compatible with chemicals currently used in vegetation management program.

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## 1-TANK & FRAME

**1a. Water Tank:** Shall be white in color, elliptical in shape with 750-gallon capacity (no exception). The tank shall have a removable, anti-surge "anti -surge" system (indentation in tank not acceptable) that reduces tank volume by no more than 1.5%. The tank and baffle material must be UV stabilized polyethylene. The tank will be saddle mounted and secured with a minimum of three (3) heavy duty, flat 10-gauge steel bands. A minimum of two bands must have "D" ring tie-downs on both sides of the tank. The hose between the tank and sprayer pump shall be a 1 1/2-in. non-collapsible suction hose.

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**1b. Water Tank (cont.):** The suction line must include a glass filled, 1 1/2-in. poly ball valve installed in a convenient location, below the bottom of tank. The ball valve will serve as the tank shutoff and drain valve. The tank lid shall be 16-in. diameter minimum, positive locking type with an air vent to prevent damage from pressure or vacuum. The lid shall also include an anti-siphon fill system with a 4-in. minimum air gap. The fill hose shall be 2.5-in. by 25-ft. long mill hose with a 2.5-in. male camlock.

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**1c. Skid and Saddle Assembly:** Shall be designed and constructed as an integral unit with 10-gauge formed steel. The design and construction must maximize weight reduction and withstand the stresses of frequent lifts on and off carrier vehicles. The saddles shall consist of three (3) 12-in. wide flat steel sections formed to fit the contour of the water tank. . The skid longitudinal shall be 120-in. long, hot rolled, sheet steel with break-formed flanges top and bottom (top flange to fit contour of the saddle sections). There shall be a minimum of three (3) 6-in. by 2-in. tube steel, cross members between the longitudinal. The rear of skid shall have 4-in. by 8-in. forklift pockets. The skid assembly shall be powder coated black.

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## 2-SPRAY PUMP

**2a. Sprayer Pump:** Shall be a Hypro model 9203C heavy duty centrifugal, or compatible to the capability capable of 90 PSI and 60 GPM. The pump will be belt driven from an engine with a direct mount, heavy-duty, 12volt DC, electromagnetic clutch. Clutch power will be through an on/off switch at the cab control center. The pump mounting base must be slotted to allow drive belt removal or adjustment. A 50 mesh filter with a replaceable stainless steel screen will be installed in the pump pressure line. The pumping system must provide a minimum 75 PSI water pressure to the pressure regulators when operating nozzle assemblies either individually or simultaneously.

**2b. Water Pump Power:** Honda model GX270 QAE engine or to meet same specs of, with in cab electric start and stop. A group 24 battery must be installed on the skid. The mounting location for all components must allow access for normal maintenance.



### 3-SPRAY HEADS

**3a. Boomless Spray Head:** (no exception). The spray head must produce a 28-ft. wide minimum, no-streak spray pattern, utilizing all brass, solid stream nozzles (plastic nozzles are not acceptable). The spray head shall have seven (7) adjustable, nozzle assemblies that produce individual spray widths (swaths) of 2-ft., 2-ft., 4-ft., 4-ft., 4-ft., 6-ft., 6-ft. (no exception). Number one through four nozzle assemblies must nutate at 45 Hz to produce a uniform no-streak spray pattern. The nozzles must be sized to apply 25 or 35 gallons per acre at 11 MPH. The spray head will have removable steel side panels to reduce wind shear and protect components from roadside obstructions. The spray head assembly must be bolted to the end of a 2 ½-in. schedule-40 pipe swing-post. The receivers for the swing-post shall be heavy-duty pipe sockets located on each side, at the rear of the skid. The sockets must have grease fittings and manually adjustable brakes that provide spray head breakaway protection. The spray head must swing a minimum of 180 degrees from the stowed to work position. In the work position the spray head nozzle assemblies will be approximately 24-in. outside the skid and tilt 30-degree up and down electrically from the cab control center. The spray head assembly shall include a minimum of nine (9), Spraying Systems Model 144, direct acting solenoid valves, (diaphragm type solenoids are not acceptable), nine (9) 1/2-in. adjustable pressure regulators with 2 1/2-in. diameter liquid filled gauges. A water pump pressure gauge must be provided in a location that can be viewed when adjusting the engine RPM. The solenoid-regulator assembly will be stacked horizontally, across the rear of the skid. All spray head hose connections at the solenoid-regulator assembly must be 3/4-in. camlock QD's.

**3b: Second boomless Spray Head:** Shall have the capability to operate spray heads either individually or simultaneously. This will include but not limited to quick disconnects, hoses and electrical connections

**3c.Eighth Nozzle Assembly:** Shall be installed in the boomless spray head to cover the area after the seventh nozzle assembly from 28-ft-38-ft

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_____	_____

**4-CHEMICAL TANK**

**4a- Closed Chemical Tank Loading:** shall be a 10 GPM pump and air sensing flow meter installed as an integral part of the sprayer. The controls shall be located at rear of skid. All hose connecting to the Closed Loading System to the water and chemicals shall be 3/4 in and will include in glass filled poly ball valves for each chemicals tanks and the water tank. The ball valves will direct chemicals or water to the chemical tank and transfer product between chemical tanks, and off -load chemicals. The valve assemble must have large permanent labels describing the function and action for each valve. Capacity of 20 plus gallons per each tank.

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**5-CAB CONTROLS**

**5a- Cab Control Pedestal-**Cab pedestal shall be 3-inch steel construction with a base plate. The pedestal shall include a double articulated arm for adjustment, the pedestal will be supplied

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**5b-Cab to Skid Unit Connection:** Cable connections shall be cannon type plugs to allow through cab installation and disconnection point for spray control device

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**6-PLUMBING & FITTINGS**

**6a. Plumbing:** Any excessive pressure drop or back pressure due to restrictions from under sized components will not be acceptable in the chemical, or water pumping systems. All hoses and fittings will be rated to exceed by 50 percent any maximum operating pressures possible in their respective systems. Any hoses installed in locations where chaffing may occur must have protective coverings. All hoses will be adequately supported throughout the system.

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**7-WARRANTY**

**7a. Warranty:** A minimum of one-year parts and service will be furnished. Any components with a longer manufacturer warranty will be listed.

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**7b. Warranty (cont.):** Each unit shall include all inspection coupons, certicards, or warranty identification cards furnished to the trade in general accordance with standard warranty policies. In addition, the vendor must provide a loaner injection sprayer control (computer) or injection pump within 24 hours from the time user agency and manufacture (vendor) determine repairs cannot be made in the field. Vendor must operate a full time parts and service facility offering factory authorized service.

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**8- HAND HOSE**

**8a. Handgun Hose Reel Assembly:** Shall include an electrical hose reel, with hose roller guide electric, 100 ft. of 600 PSI, 1/2-in. I.D. chemical resistant hose and handgun. Equal flow switch will be installed in the handgun feed line to turn chemical injection pumps off when handgun trigger is released. A 1/2-in. brass ball valve must be installed in the hose reel feed line prior to the flow switch. The hose reel will be mounted on a pipe pedestal and installed in the unused spray head socket at the rear of the skid.

**9-MANUALS & TRAINING**

**9a. Manuals:** One detailed set of parts, service and operator's manuals will be delivered with the sprayer. A plumbing schematic detailing sprayer components and their location will be supplied at the time of installation and training.

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**9b. Training:** Vendor will furnish a minimum of 16 hours training on operation and maintenance of the unit at a time and location mutually agreed upon by WCPW and bidder

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**10-References : (3) Companies past or present operating same type Herbicide spray unit**

**Company Name** \_\_\_\_\_ **Contact** \_\_\_\_\_

**Company Name** \_\_\_\_\_ **Contact** \_\_\_\_\_

**Company Name** \_\_\_\_\_ **Contact** \_\_\_\_\_

12-Brand of Skid mount herbicide unit \_\_\_\_\_

13- Model of Skid mount herbicide unit \_\_\_\_\_

14-Operating weight (full of water and chemicals) \_\_\_\_\_

15-Length & width on skid mount unit \_\_\_\_\_

Exception to bid: \_\_\_\_\_

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\_\_\_\_\_

BID PRICE : \_\_\_\_\_

SHIPPING / FREIGHT CHARGES : \_\_\_\_\_

TOTAL BID PRICE: \_\_\_\_\_



**Bids shall be submitted in a sealed opaque envelope and shall be marked on the outside with the name of the submitting company, the ITB number, and the words “[Skid Mount Herbicide System](#)”.** Any deviation from the requirements set forth for the labeling of the bid envelopes shall result in said bid being returned to the bidder unopened and any such bid shall not be considered.

Do not call with questions relating to this ITB. Refer to the County Website at <http://www.whitfieldcountyga.com> for bid details and any updates. All communication must be in writing or via email. Address email correspondence to [mturner@whitfieldcountyga.com](mailto:mturner@whitfieldcountyga.com). No verbal or written information which is obtained other than through this ITB or its addenda shall be binding on Whitfield County. No employee of Whitfield County is authorized to interpret any portion of this ITB or give any information as to the requirements of this ITB in addition to that contained in or amended to this written ITB document.

### **Bid Submittal Instructions:**

**Vendors are to submit 1 original and 2 copies of their bid.**

Sealed bids shall be addressed to the attention of Brian McBrayer and mailed to Whitfield County Board of Commissioners, P.O. Box 248, Dalton GA 30722-0248 or hand delivered to the Courthouse Annex, 301 W. Crawford Street, Dalton GA. All bids shall be received on or before the above designated date and time. Any bid received after this date and time shall not be accepted. Bids shall be typed or submitted in ink. Bids will be opened and read publicly. Bids are legal and binding upon the bidder when submitted.

It is understood that this contract, if accepted by Whitfield County, is entered into solely for the convenience of the county and in no way precludes the county from obtaining like goods from other suppliers upon prior approval of the Whitfield County Board of Commissioners. Such approval shall be made at the sole discretion of the Whitfield County Board of Commissioners and shall be conclusive.

### **Local Vendor Privilege**

Because bids awarded to local vendors contribute to the Whitfield County tax base and promote the local economy, the Whitfield County Board of Commissioners has instituted a local vendor privilege as follows. To qualify as a local vendor, the following conditions have to be met:

1. The vendor has to have an established place of business within Whitfield County.
2. The vendor must have at least two (2) employees who have been working for six (6) months or longer before requesting a local vendor privilege.

All vendors who met these conditions and who wish to claim the local vendor privilege must complete the Affidavit of Eligibility available on the County web site. The local vendor privilege gives qualifying vendors, who are within 4% of the low bid, the opportunity to agree to match the low bid within 24 hours. If more than one local vendor meets the qualifications, the lowest local bidder will be given the first opportunity to agree to match the low bid. If they refuse, the next lowest bidder will get the opportunity and so on until all local vendors within the 4% range have been given an opportunity.

Whitfield County reserves the right to accept or reject any or all bids for any reason, to waive technicalities, and to make an award deemed in its best interest. Whitfield County shall have the right to delete a unit item from the bid if necessary or proper in the sole determination of Whitfield County.

We certify that our bid meets the minimum requirements as specified in bid documents, this

\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

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AUTHORIZED SIGNATURE

\_\_\_\_\_  
TITLE

\_\_\_\_\_  
PRINTED NAME OF SIGNATURE

\_\_\_\_\_  
COMPANY

\_\_\_\_\_  
ADDRESS

\_\_\_\_\_  
CITY / STATE / ZIP CODE

\_\_\_\_\_  
TELEPHONE NUMBER

\_\_\_\_\_  
FAX NUMBER

\_\_\_\_\_  
E-MAIL ADDRESS