

**BID SPECIFICATIONS  
FOR  
MOTORGRADER - OPTION B  
VOLVO G940C  
\$237,994.00 (INCLUDING OPTIONS) TIER 4**

**GENERAL**

These specifications shall be construed as the minimum acceptable standards for a heavy duty motor grader. Should the manufacturer's current production data or specifications exceed these standards, the manufacturer's standards shall be considered minimum and shall be furnished. All integral parts not specifically mentioned in the scope of these specifications that are necessary to provide a complete working unit shall be furnished. Additionally, the machine offered for bid shall include all standard manufacturers' equipment. The motorgrader must be a new current production model and shall meet all EPA and other applicable standards at the time of manufacturer.

The use of specific names or numbers in the specifications is not intended to restrict the bidder or any seller or manufacturer, but is intended solely for the purpose of indicating the type, size, and quality of equipment considered best adapted to the uses of counties participating in this joint bid.

**BID SUBMITTAL FORM**

Each bidder must submit his or her bid on the Bid Submittal Form included in the invitation to bid package. All written warranties to be submitted shall be attached to the Bid Submittal Form.

**BID PRICE**

The price bid shall include all destination charges, delivery charges, title fees, rebates and all other applicable costs and refunds.

**MANUALS**

Each unit shall be provided with one (1) copy of the operator's manual, one (1) copy of the repair manual and one (1) copy of the current parts manual. Units will not be accepted for delivery until the manuals as outlined above are received by the purchaser.

**REPLACEMENT PARTS AVAILABILITY**

Parts must be available for 5 years or 7,500 hours of use for the piece of equipment bid. If replacement parts are not delivered within three (3) working days of an order being placed, the bidder will deliver an equivalent machine for the County to use at no cost to the County until such time as the parts are delivered to the County so it can affect repairs to its machine.

**FILTERS**

The cost of all filters required to perform scheduled maintenance as outlined in the manufacturer's service schedule and to meet warranty requirements. Assume 1200 hours of annual use to determine filter requirements. The first three years shall cover a period of 3600 hours. The additional two years will cover a period of 2400 hours. The filters shall be furnished with each machine purchased or at option of purchasing County may be picked up at the dealership as needed.

**WARRANTY**

Bidders shall submit a copy of the manufacturer's standard warranty and a 3-year, 3600 hour power train warranty along with a complete explanation of the warranty with their bid. Warranty shall include service response time of maximum of 36 hours within notification by county.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_  
Attachment \_\_\_\_\_

**ENGINE**

The engine shall be a four cycle, six cylinder turbocharger diesel with a minimum of three engine power ranges and a max horsepower of at least 232SAE net flywheel horsepower. Engine shall meet current EPA emissions regulations for manufacturer

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Minimum of 476 cu. in. displacement

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**STARTING SYSTEM**

Shall be equipped with a 24 volt electrical system with 24 volt to 12 volt converter for two way radio; 50 amp alternator.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**TRANSMISSION**

Operator's choice of on-the-go, full power shifting as well as inching capability, direct drive with auto shift. Auto shift shall have a work and travel mode.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Eleven speeds forward and six speeds reverse

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Low effort inching pedal

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Overspeed protection to prevent engine and transmission damage from premature downshifting and grade-induced over-speeding.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Also must be equipped with transmission guard.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**FINAL DRIVE**

The final drive shall be a tandem type with power being transmitted from the transmission to the ground all four rear tandem wheels.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

The final drive shall include an operator controlled wet, multi disc differential lock/unlock.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**CONTROLS AND HYDRAULICS**

Hydraulic system shall be load sensing closed center type with variable displacement piston pump.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

The total hydraulic system flow shall be a minimum of 55 gpm.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

The hydraulic system shall have sufficient power to permit simultaneous operation of at least two components without loss of component travel speed and/or power and without requiring the engine speed to be increased.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Circle drive shall be protected against impact damage by an overload cushion valve or an accumulator blade lift.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**BLADES**

The moldboard shall be 14' x 25" x 0.87" with hydraulic power tilt, hydraulic power side shift and replaceable end bits.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

The tilt angle of the moldboard shall not be less than 47 degrees forward and 5deg. Back

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Moldboard blade range shall have minimum cutting depth of 31", minimum lift above ground of 17" and minimum right and left side vertical cutting angle of 90 degrees.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Shall also include reversible overlay end bits.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**SCARIFIER**

The scarifier shall be mounted behind the front axle to allow operation of other front mounted equipment.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

The machine must also have the proper number of control valves to operate the scarifier in addition to all other standard hydraulic control functions.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Must be factory mounted. No dealer added after market scarifier will be accepted.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**DRAWBAR AND CIRCLE**

Welded construction drawbar

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Circle equipped with replaceable wear inserts located between drawbar and circle, and support shoes and guides.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

The circle shall be driven hydraulically and shall rotate 360 degrees.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**FRAME**

The main frame shall be of an all welded box type construction.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

The frame must be capable of articulating 23 degrees to both the right and left of center. Frame shall have a lifetime warranty

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

The articulation joint shall be equipped with a locking device to prevent frame articulation while servicing or transporting the machine.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**STEERING**

The motor grader shall have a hydraulic steering system capable of providing stopped engine steering as required by SAE codes, J53 and J1511.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

The minimum turning radius shall be 25 feet.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**TIRES**

9 in (22.86 cm) by 24 in (60.96 cm) size single piece tire rim shall be available  
To provide mounting for 14.00-R24 tires

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**BRAKES**

The service brakes shall be foot operated, hydraulic power boosted sealed oil disc brakes on all four rear tandem wheels.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

The service brakes shall be a dual brake system with accumulators for a secondary braking system for stopped engine braking.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

The parking brake shall be hand actuated, spring applied, hydraulically released caliper type and shall neutralize the transmission when applied.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**OIL ANALYSIS**

To be included at no cost for the duration of the purchased warranty period at intervals recommended by the manufacturer's warranty and maintenance schedule.

**WEIGHT (STANDARD OPERATING)**

Minimum of 37,500 which includes enclosed ROPS cab (low profile) with factory installed air conditioner/heater (standard arrangement) and scarifiers. This is factory specified operating weight only. No additional weights may be added for purpose of meeting these specifications.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**OPTIONS**

Bid must include the cost for each of the following options, itemized separately on the bid:

Enclosed ROPS cab (low profile)

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

AM/FM stereo radio

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Factory installed air conditioner/heater

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Two high and low beam cab-mounted halogen headlights

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Front turn signals mounted on cab & rear turn signals mounted on radiator grill

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Cage top mounted yellow strobe

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Side mounted mirror (left and right)

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Rear-mounted ripper with five shank holders (This option requires the scarifier be removed and equip the machine with 17.5-R25 tires mounted on multi-piece rims)

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

14.00X 24 12 PR bias tires mounted on a 9" single piece rim

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

First 3 years of filters based on 1200 hours per year use

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Additional 2 years of filters based on 1200 hours per year use

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

Factory installed rearview camera with LCD color monitor

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

An extended power train warranty that covers an additional two (2) years  
or total of 6,000 hours, whichever occurs first

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**NOTE:** Award will be made on the basis of the total cost of the machine with all options included. However, a county may, at its discretion, deduct one or more of the above-referenced options from the machine, and in such event, the cost of the option as stated on the bid shall be deducted from the total cost of the machine. There shall be no other deductions and no additions made to the machine by the purchasing county or by the vendor.

## OPTION COST SHEET FOR MOTORGRADER - OPTION B TIER 4

<u>Option</u>	<u>Option Price</u>
Enclosed ROPS cab (low profile)	\$ <u>STD.</u>
AM/FM stereo radio	\$ <u>798.00</u>
Factory air conditioner/heater	\$ <u>STD.</u>
Cab-mounted halogen headlights	\$ <u>STD.</u>
Front & rear turn signals	\$ <u>STD.</u>
Cage top mounted yellow strobe	\$ <u>STD.</u>
Side mounted mirror (left and right)	\$ <u>STD.</u>
Rear-mounted ripper with five shank holders (This option requires the scarifier be removed <u>and equip the machine with 17.5-R25 tires mounted on the multi-piece rims</u> )	\$ <u>\$28,334.00</u>
14.00X 24 12 PR bias tires mounted on 9" single piece rim	\$ <u>7,724.00</u>
Extended warranty	\$ <u>1,428.00</u>
Factory installed rearview camera with LCD color monitor	\$ <u>STD.</u>
First 3 years of filters	\$ <u>2,750.00</u>
Additional 2 years of filters	\$ <u>1,785.00</u>

**NOTE:** Award will be made on the basis of the total cost of the machine with all options included. However, a county may, at its discretion, deduct one or more of the above-referenced options from the machine, and in such event, the cost of the option as stated on the bid shall be deducted from the total cost of the machine. There shall be no other deductions and no additions made to the machine by the purchasing county or by the vendor.

# COUNTY JOINT BID PROGRAM PURCHASE PROCEDURES

Effective January 1, 2008

All purchases by counties pursuant to the County Joint Bid Program shall be made by (1) mailing or faxing the appropriate Purchase Order to the vendor who has been awarded the contract for the item to be ordered and (2) faxing a copy of the Purchase Order to the Association of County Commissions of Alabama (ACCA) office at 334-263-7678. Purchase Order Forms and all necessary information regarding the vendor and items available can be obtained at the ACCA website ([www.alabamacounties.org](http://www.alabamacounties.org)).

Each purchase order shall be signed by the person authorized by the county to sign and shall include the County Joint Bid Program Item Number. A copy of the form submitted shall be retained by the county.

The county shall deal directly with the company representative for the vendor in making purchases under this program. The vendor shall complete all orders in compliance with its agreement under the program, and shall deal directly with each county in processing and completing their orders and in complying with service and warranty requirements. Road sign vendors should keep in mind that they are required to deliver all items to the location identified by the county ordering them within thirty (30) calendar days from the date of order, and the cost of any items not delivered within this time period will be reduced in price by 10%.

It is important to remember that under Code of Alabama 1975, § 41-16-50(b), all purchases made pursuant to this program shall be subject to the terms and conditions of Alabama's Competitive Bid Law. Therefore, counties are only authorized to purchase the specific items awarded under the program according to the bid specifications and must comply with these procedures in placing all orders.

There can be no deletions or additions to items purchased under this program, except as specifically provided for in the bid specifications. Optional equipment authorized under the bid specifications on certain heavy equipment orders may be deleted by the county at the time of purchase, and in that event, the cost of that item as provided by the vendor shall be deducted from the total cost of the item.



**COUNTY JOINT BID PROGRAM  
MOTORGRADER OPTION B TIER 4  
PURCHASE ORDER FORM**

***This form must be mailed or faxed to the Vendor with  
Copy faxed to the ACCA Office at 334-263-7678***

Date of Order: \_\_\_\_\_ County Purchase Order No. \_\_\_\_\_

County: \_\_\_\_\_ County Contact Person: \_\_\_\_\_

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

County Phone Number: \_\_\_\_\_

County Fax Number: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Equipment Model or Item Name and Number: VOLVO G940C

Number of items ordered: \_\_\_\_\_ Price per item: \_\_\_\_\_

Vendor: Cowin Equipment Company Inc. Company Contact: John Edwards

Vendor address: 3120 Hayneville Road  
Montgomery, AL 36108

Deliver to the Attention of: \_\_\_\_\_

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

Requested delivery date: \_\_\_\_\_

Name of person making purchase request: \_\_\_\_\_

Title: \_\_\_\_\_

Authorized County Signature: \_\_\_\_\_

Initial confirming form sent to vendor: \_\_\_\_\_

Initial confirming form sent to ACCA: \_\_\_\_\_