



Form GSOP 1-PIN (04/98)

STATE OF CALIFORNIA  
Department of General Services - Office of Procurement  
**PURCHASE ORDER**

Purchase Order No. Rev. Date  
**62399** 6/30/2009

Supplier No.	Solicitation No.	Delivery Date	FOB Point	Invoice Terms
814889	57279	240 Days ARC	Destination	

KERN MACHINERY, INC  
520 S. MT. VERNON AVE.  
BAKERSFIELD, CA 93307  
Attn: HANK OTTEN

**S** DEPT OF TRANSPORTATION  
**h** EQUIPMENT RECEIVING  
**i** (VARIOUS LOCATIONS - AS  
**P** SPECIFIED)

**C** CALTRANS-ACCTG/OFC B-15  
**h** D32 EQUIPMENT SERVICE CTR  
**a** PO BOX 160048  
**r** SACRAMENTO, CA 95816  
**e**

Agency Billing	Agency Purchase Estimate	Purchase Estimate	Revision
60063	32-12-5319*	67367	0
Agency Contact		Phone	Date Received
STANLEY JACOBS		916-227-9710	

Phone: 661-833-9900

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension												
<p>This purchase order is being awarded on AUGUST 27, 2009 pursuant to Government Code Section 13332.17. Any encumbrances made pursuant to this purchase order shall be construed to have been made on the last day of the preceding fiscal year.</p> <p>The general provisions for Non-IT commodities are hereby incorporated by reference. These General Provisions can be obtained by phoning (916) 375-4400 or by accessing our website at:</p> <p><a href="http://www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf">www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf</a></p> <p>THE FOLLOWING INFORMATION IS PROVIDED FOR AGENCY USE ONLY:</p> <p>Prime Contractor: NS</p> <p>Deliver:</p>																		
3	EA	2320-233-0120-0		TRACTOR AGRICULTURAL WITH MOWER (AS DESCRIBED)	103,700.0000	311,100.00												
<p>A Four Wheel, General Purpose/Agricultural Tractor Equipped with a Side and Rear Mower according to State of California Specification 59218-128-081, with the following options:</p> <p><u>Breakdown of Unit Price</u></p> <p>Base Price (No Options)      \$ <u>103,700.00</u></p> <p>Option 5: 2x4 Front Steer Axle    \$ <u>**DELETED**</u></p> <p>Ship to: 1650 Albee Street, Eureka, Ca 95501</p> <table border="1"> <tr> <th>Maint. Class</th> <th>ID No.</th> <th>EBR No./Shop</th> </tr> <tr> <td>59218</td> <td>7004205</td> <td>7004205/21</td> </tr> <tr> <td>59218</td> <td>7004206</td> <td>7004206/21</td> </tr> <tr> <td>59218</td> <td>7004207</td> <td>7004207/21</td> </tr> </table>							Maint. Class	ID No.	EBR No./Shop	59218	7004205	7004205/21	59218	7004206	7004206/21	59218	7004207	7004207/21
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59218	7004205	7004205/21																
59218	7004206	7004206/21																
59218	7004207	7004207/21																

Sales and/or use tax to be extra unless noted above

Buyer <i>Shannon Keller</i> SHANNON KELLER	Phone 916-375-4606	BOC Number
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STATE OF CALIFORNIA

Department of General Services - Office of Procurement

**PURCHASE ORDER CONTINUATION**

Form GSOP 2-PIN (04/98)

Purchase Order No.	Revision	Date	Supplier No.	Supplier Name
62399		6/30/2009	814889	KERN MACHINERY, INC

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension
1	EA		2320-233-0120-0	TRACTOR AGRICULTURAL WITH MOWER CAS DESCRIBED)	144,445.0000	144,445.00
<p>A Four Wheel, General Purpose/Agricultural Tractor Equipped with a Side and Rear Mower according to State of California Specification 59218-128-081, with the following options:</p> <p><u>Breakdown of Unit Price</u>                      Base Price (No Options)                   \$ 103,700.00                      Option 3: Batwing Mower                   \$ 23,422.00                      Option 6: Loader                             \$ 17,333.00</p> <p>Ship to:                      1385 North West Avenue, Fresno, Ca 93728</p> <p><u>Maint. Class</u>            <u>ID No.</u>            <u>EBR No./Shop</u>                      59218                      7003907            7003907/26</p>						
1	EA		2320-233-0120-0	TRACTOR AGRICULTURAL WITH MOWER CAS DESCRIBED)	103,700.0000	103,700.00
<p>A Four Wheel, General Purpose/Agricultural Tractor Equipped with a Side and Rear Mower according to State of California Specification 59218-128-081, with the following options:</p> <p><u>Breakdown of Unit Price</u>                      Base Price (No Options)                   \$ 103,700.00                      Option 5: 2x4 Front Steer Axle         \$ **DELETED**</p> <p>Ship to:                      13204 Golden State Road, Sylmar, Ca 91342</p> <p><u>Maint. Class</u>            <u>ID No.</u>            <u>EBR No./Shop</u>                      59218                      7004055            7004055/27</p>						

STATE OF CALIFORNIA

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62399		6/30/2009	814889	KERN MACHINERY, INC

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension															
4	EA		2320-233-0120-0	TRACTOR AGRICULTURAL WITH MOWER (AS DESCRIBED)	118,677.0000	474,708.00															
<p>A Four Wheel, General Purpose/Agricultural Tractor Equipped with a Side and Rear Mower according to State of California Specification 59218-128-081, with the following options:</p> <p><u>Breakdown of Unit Price</u>                      Base Price (No Options)                   \$ 103,700.00                      Option 4: Batwing Mower                   \$ 14,977.00</p> <p>Ship to:                      320 South Sierra Way, San Bernadino, Ca 92408</p> <table border="0"> <thead> <tr> <th>Maint. Class</th> <th>ID No.</th> <th>EBR No./Shop</th> </tr> </thead> <tbody> <tr> <td>59218</td> <td>7004909</td> <td>7004909/28</td> </tr> <tr> <td>59218</td> <td>7004910</td> <td>7004910/28</td> </tr> <tr> <td>59218</td> <td>7004911</td> <td>7004911/28</td> </tr> <tr> <td>59218</td> <td>7004912</td> <td>7004912/28</td> </tr> </tbody> </table>							Maint. Class	ID No.	EBR No./Shop	59218	7004909	7004909/28	59218	7004910	7004910/28	59218	7004911	7004911/28	59218	7004912	7004912/28
Maint. Class	ID No.	EBR No./Shop																			
59218	7004909	7004909/28																			
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59218	7004911	7004911/28																			
59218	7004912	7004912/28																			
1	EA		2320-233-0120-0	TRACTOR AGRICULTURAL WITH MOWER (AS DESCRIBED)	121,033.0000	121,033.00															
<p>A Four Wheel, General Purpose/Agricultural Tractor Equipped with a Side and Rear Mower according to State of California Specification 59218-128-081, with the following options:</p> <p><u>Breakdown of Unit Price</u>                      Base Price (No Options)                   \$ 103,700.00                      Option 6: Loader                           \$ 17,333.00</p> <p>Ship to:                      1603 South B Street, Stockton, Ca 95206</p> <table border="0"> <thead> <tr> <th>Maint. Class</th> <th>ID No.</th> <th>EBR No./Shop</th> </tr> </thead> <tbody> <tr> <td>59218</td> <td>7004529</td> <td>7004526/30</td> </tr> </tbody> </table>							Maint. Class	ID No.	EBR No./Shop	59218	7004529	7004526/30									
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STATE OF CALIFORNIA

Department of General Services - Office of Procurement

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Form GSOP 2-PIN (04/98)

<i>Purchase Order No.</i>	<i>Revision</i>	<i>Date</i>	<i>Supplier No.</i>	<i>Supplier Name</i>
62399		6/30/2009	814889	KERN MACHINERY, INC

<i>Item No.</i>	<i>Quantity</i>	<i>Unit</i>	<i>Commodity Code</i>	<i>Description</i>	<i>Unit Price</i>	<i>Extension</i>														
1	EA		2320-233-0120-0	TRACTOR AGRICULTURAL WITH MOWER (AS DESCRIBED)	134,479.0000	134,479.00														
<p>A Four Wheel, General Purpose/Agricultural Tractor Equipped with a Side and Rear Mower according to State of California Specification 59218-128-081, with the following options:</p> <p><u>Breakdown of Unit Price</u></p> <table> <tr> <td>Base Price (No Options)</td> <td>\$ 103,700.00</td> </tr> <tr> <td>Option 1: Rear Rotary Mower</td> <td>\$ 7,225.00</td> </tr> <tr> <td>Option 2: Side Rotary</td> <td>\$ 150.00</td> </tr> <tr> <td>Option 3: Batwing Mower</td> <td>\$ 23,422.00</td> </tr> </table> <p>Ship to: 7179 Opportunity Road, San Diego, Ca 92111</p> <table> <tr> <td><u>Maint. Class</u></td> <td><u>ID No.</u></td> <td><u>EBR No./Shop</u></td> </tr> <tr> <td>59218</td> <td>7004832</td> <td>7004832/31</td> </tr> </table>							Base Price (No Options)	\$ 103,700.00	Option 1: Rear Rotary Mower	\$ 7,225.00	Option 2: Side Rotary	\$ 150.00	Option 3: Batwing Mower	\$ 23,422.00	<u>Maint. Class</u>	<u>ID No.</u>	<u>EBR No./Shop</u>	59218	7004832	7004832/31
Base Price (No Options)	\$ 103,700.00																			
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<u>Maint. Class</u>	<u>ID No.</u>	<u>EBR No./Shop</u>																		
59218	7004832	7004832/31																		
<u>Total Value:</u>						1,289,465.00														

State of California – DGS Procurement Division  
Purchase Order 62399

**FOR THE PURPOSE OF THIS AWARD**

Only Free On Board (F.O.B.) Destination will be accepted.

**DELIVERY**

Delivery is to be completed in full within two hundred and forty (240) days after receipt of order (ARO).

Note: In accordance with paragraph 15 of the General Provisions entitled "Delivery", the contractor shall strictly adhere to the delivery terms and completion schedule as specified in this solicitation. Failure to comply with the delivery requirements, as stated, may be considered a breach of contract and subject the contractor to General Provisions 26, entitled "Rights and Remedies of the State for Default".

**FEDERAL EXCISE TAX EXEMPT CERTIFICATE ATTACHED**

Federal Excise Tax Exemption Certificate attached.

**SALES TAX**

Sales tax was not included in the bid pricing and is not part of this award. Sales tax should be added at time of invoicing. The sales tax rate applied should be based on the rate of the area the product is to be delivered to.

**PURCHASE ORDER CHANGES**

This Purchase Order may be amended, modified, or terminated at any time by mutual agreement of the parties, in writing. Change orders amending, modifying or terminating the Purchase Order, including any modifications of the compensation payable, may be issued only by the State Procurement Officer. All such change orders shall be in writing and issued only upon written concurrence of the supplier. Termination, as that term is used in this section, does not include termination for default of the supplier.

**SCPRS**

This Purchase order has been registered into the State Contract and Procurement Registration System (SCPRS) at (<https://www.scprs.dgs.ca.gov/>). The registration number is EP 1027075

STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION  
DIVISION OF EQUIPMENT

ITEM NO	UNIT	CAB	TRANS	ENG	CAP	C.A.	F.A.	R.A.
59218	U	CANOPY	MANUAL	D-110			12.5	15.5

SPECIFICATION NUMBER: 59218-128-081

SPECIFICATION FOR: A FOUR WHEEL, GENERAL PURPOSE/AGRICULTURAL TRACTOR EQUIPPED WITH SIDE AND REAR MOWERS

PURCHASE ESTIMATE NUMBER: 32-12-5319\*

The intent of this specification is to describe the minimum requirements for a four wheel, front-wheel steer, rear-wheel drive, general purpose/agricultural tractor equipped with a 72 inch side flail mower and 96 inch rear flail mower. The tractor shall be fabricated incorporating a full-length frame design. This specification is written in accordance with applicable SAE standards referencing identification terminology, component nomenclature, and specification definitions of agricultural tractors and industrial mowers. Additionally, the successful vendor shall comply with all of the appropriate sections of the Caltrans Equipment Quality Standards as shown on the World Wide Web at <http://www.dot.ca.gov/hq/eqsc/qualstand.htm>.

Only technical changes authorized by Specification Engineer will be accepted. Technical changes made by any other Division of Equipment, Caltrans or State employee will not be accepted.

**TECHNICAL REQUIREMENTS**

1. **WEIGHT**: The SAE operating weight of the base tractor with standard equipment, 72 inch side flail mower, 96 inch rear flail mower and ROPS canopy shall not be less than 15,500 lbs. and shall not exceed the manufacturer's recommended maximum weight limit. The operating weight of the base tractor, less the mowers, shall not be less than 10,000 lbs.
2. **DIMENSIONS**: The following vehicle dimensions are given to insure proper vehicle configuration, use, transport, and storage. All dimensional requirements shall be applicable to the tractor equipped with the specified tires and wheels, the rear flail mower, and the side flail mower when locked into the transport/non-use position.
  - a. Overall Vehicle Length: 18.5 ft (max.)
  - b. Overall Vehicle Height: 11.0 ft (max.)
  - c. Overall Vehicle Width: 102 in. (max.)
  - d. High Center Clearance: 10 in. (min.)

3. ENGINE: The tractor shall be equipped with a four valve per cylinder, turbo-charged, inter-cooled, diesel fueled engine with a minimum SAE J1349 net brake power rating of 110 horsepower (HP) and net torque rating of 240 lb.-ft. The engine shall comply with Tier III emissions standards and shall be listed on a current Air Resources Board Executive Order for the "Engine Family" supplied (emission credits will not be accepted). The turbo-charged engine with after cooler shall have a minimum of four cylinders and provide a minimum 225 cubic inches of piston displacement. The engine shall be equipped with, but not limited to, the following accessories:
- a. Hand & foot throttle control.
  - b. Governor: A variable speed engine governor, factory set to the engine manufacturer's recommended RPM for tractor/mower applications.
  - c. Electric start and shutoff; key type

The tractor shall be equipped with visual and/or audible warning devices, in addition to the gauges, to alert the operator of conditions critical to engine and equipment operation. These warning lights and sounding devices shall have their own source for actuation, rather than being dependent on another instrument. Warning lights shall be bright enough to stand out during all operating conditions and audible signals shall be distinguishable from the operating noises of the vehicle. The tractor's operating station shall be equipped with, but not limited to, the following engine monitoring instrumentation warning devices:

- d. Engine oil pressure gauge or low pressure indicator
- e. Low engine oil pressure warning device
- f. Engine coolant temperature gauge
- g. High engine coolant temperature warning device
- h. Engine hour meter: electronic - solid state (Ref., Hobbs model 80003 or comparable)
- i. Fuel level gauge
- j. Voltmeter, ammeter or high/low voltage indicator
- k. Hydraulic oil temperature gauge

All engine monitoring instrumentation and warning devices shall be permanently labeled to identify their functions with a simple and readable lettering style or equivalent international symbols. All gauges and instrumentation shall be sealed (weatherproof) and back-lighted or adequately illuminated for nighttime operation.

4. TRANSMISSION: The transmission shall utilize an oil immersed wet clutch to engage the transmission. The transmission shall be infinitely variable. The transmission shall include a power reverser to allow shifts from forward to reverse and back to forward without using the clutch. At a minimum, the transmission shall provide a minimum speed of 0.5 MPH at full throttle to a maximum speed of 25 MPH at full throttle, with the specified tires.

The tractor shall be equipped with a transmission safety device that - in the event the transmission is engaged - will prevent the engine from starting or prevent the machine from

moving if the engine is started. The tractor shall also be capable of traveling at speeds above 25 mph when in the highest forward gear with the specified wheels and tires, with an engine speed at 2,000 rpm or below, with the specified tires.

5. FRONT AXLE: The front axle shall be a Mechanical Front Wheel Drive (MFWD) equipped with a drive disconnect to disengage the drive to the front wheels and allow the front wheels to spin freely. The MFWD shall be equipped with an automotive style suspension with a minimum 10-degree oscillation angle. The suspension shall allow a minimum of four inches of articulation on one wheel without affecting the wheel on the opposite side of the tractor. The front axle shall be equipped with tubeless tires as specified. The tire and wheel load ratings shall exceed the minimum operating weight requirements of the tractor as equipped. The axle and tires shall be rated to carry a minimum 9,250 lb. and shall be mounted on industrial, welded steel disc rims. The front tire and rim size shall be determined by the manufacturer to match the specified rear tire size in order to maximize power train performance and equalize power transfer to each axle.
6. REAR AXLES: The drive to the rear wheels shall be through a differential assembly having lockup capability. The rear wheel tread width shall be set at the maximum possible width for increased tractor stability with out exceeding 102 inches. The rear axle capacity rating shall be adequate to support all the attachments specified under all loading conditions and have a minimum capacity rating of 13,500 lb.
7. STEERING: The tractor shall employ front wheel steering being controlled by a steering wheel with hydraulic power assist or hydrostatic steering. The front wheels shall have a total steering angle of not less than 50°. The tractor steering shall provide a minimum turning radius of not greater than 18.0 ft. with the tires and wheels specified.

The tractor shall have emergency steering capability that will allow the operator to maintain steering control in the event of an engine failure in accordance with SAE standard J1511.

8. TIRES AND WHEELS: The tractor shall be equipped with a minimum 52070R34 and 42070R24, tubeless tires with (radial) R1 tread pattern on the front and rear wheels respectively. The wheels shall be mounted on heavy-duty, industrial, welded steel disk wheel rims.

The tires **shall not** be filled with liquid ballast for additional counterweight purposes. Liquid wheel ballast such as calcium chloride will not be acceptable.

The wheel wells shall provide for a minimum four (4) inches of tire clearance. The rear wheel wells shall be completely unobstructed. All dimensional and operational requirements shall be applicable to the tractor equipped with these specified tires and wheels when inflated to the tire manufacturer's recommended pressure.

9. BRAKES: Heavy duty service brakes shall be foot-operated and installed to apply braking force on both rear wheels. The service brakes shall be self-adjusting, sealed and

immersed in oil to protect against the influence of dust, mud, sand or water (e.g., wet-disk brakes).

Hydraulically boosted or hydraulically actuated power braking systems shall incorporate emergency braking capability to allow the operator to stop the tractor in the event of an engine failure.

The tractor shall also be equipped with a parking brake or transmission lock to prevent the wheels from rolling while the tractor is parked. A red warning light shall be installed on the instrument panel, in full view of the operator, to indicate when the parking brake is applied while the engine is running. A transmission lock type device does not require a red warning light.

10. AIR AND OIL FILTRATION: The engine air filtration system shall be a 2-stage unit consisting of a centrifugal precleaner stage and water evacuator, incorporated in the air cleaner, and two, dry element type, final stage filters of the correct capacity as indicated in the engine manufacturer's published instructions. The final stage filters shall consist of a replaceable outer primary filter and an inner safety element.

An engine air intake restriction gauge shall be located in the operator's compartment and mounted in plane view of the operator. The gauge shall be marked to indicate maximum restriction in accordance with the engine manufacturer's published instructions. The restriction gauge shall maintain the last highest vacuum reading when the engine is turned off and shall be capable of resetting to zero (Ref., Filter Minder Dash Mount Air Restriction Gauge, Model 3781-325 or comparable). The air cleaner/gauge connections shall be dustproof and waterproof, either tubing or hose mounted, as to withstand abrasion, wear, and vibration. The gauge suction line shall incorporate an in-line filter to protect against dust intake due to a cracked or broken connection.

The engine oil filtration system shall utilize full flow filtration with a replaceable, spin-on type filter of the correct capacity as indicated in the engine manufacturer's published instructions.

11. EXHAUST SYSTEM: The exhaust system shall utilize a vertical exhaust stack equipped with a rain cap. The exhaust system shall be USFS approved and comply with applicable California Vehicle Code and State fire regulations.
12. LIGHTING SYSTEM: The tractor lighting system shall comply with all applicable requirements as prescribed by FMVSS/CMVSS 108 and shall be equipped with the following minimum electrical lighting components:
  - a. Two front driving lights
  - b. Two front work lights
  - c. Two rear work lights
  - d. Rear tail and stop lights

- e. Front and rear mounted turn signals
- f. Rear license plate lamp with bracket
- g. Rotator Beacon, (Required Federal Signal, MFR Part No. 443112-02)

In addition to the mentioned lighting system, the tractor shall be equipped with side and rear reflectors or reflector tape in accordance with FMVSS 108 requirements for Trucks, Buses, and MPV's.

13. ELECTRICAL EQUIPMENT: Minimum electrical equipment shall comply with all Federal and State regulations for on highway trucks. Factory installed tail, stop, and directional signal lamps shall be provided, and lights may be in combination. The wires to these lamps shall be in a loom or conduit. Adequate size gauge of wire to the lights shall be used in accordance with SAE standards for distance from power source and load demand. Wiring color code for lights shall comply with SAE standard J560 (b). The ends of all stranded conductors cut shall be mechanically stripped and fitted with insulated type terminals. The terminals shall be mechanically crimped securely with appropriate tool(s). All splices shall be sealed against moisture. Scotch Lock wire-type piercing devices shall not be used.

The battery system shall be made up of heavy-duty absorbent glass mats, industrial type, 12-volt battery(s). Each battery shall be rated for a minimum 750 CCA (cold cranking amperes) at 0° F. and reserve capacity of not less than 160 minutes at 25 A and 80° F. The battery system ratings shall be as established by the BCI (Battery Council International) and SAE. Side terminal batteries are not acceptable. A minimum 100-ampere (A) alternator with a matching regulator shall be furnished.

14. HYDRAULICS:

- a. Lines and Fittings: All hydraulic lines shall be sized as recommended by the manufacturer of the component to which they attach, and shall be adequate for the use intended. All hoses and plumbing shall have a minimum number of bends and shall be free of any kinks. All bends in hoses and tubing shall be not less than the minimum radius as recommended by the hose or tubing manufacturer. Where applicable, plumbing shall be protected from external damage by tractor frame and body. Any hoses routed around or through areas that may cause abrasion or cuts shall be protected as necessary. All hydraulic components and plumbing shall be mounted and supported to withstand extensive field use.

Any tubing or flexible hose used in the hydraulic system shall be approved for hydraulic use and rated for the maximum working pressure of the system. Large diameter hose shall be used for low pressure return line(s) to the reservoir. The use of black pipe, galvanized pipe, brass or plastic pipe or fittings, etc. **shall not** be allowed in the hydraulic system, including the low pressure return side. Only steel or stainless steel crimp type hose fittings and ends that are approved for

hydraulic use shall be used.

Hydraulic fittings on high pressure lines shall be the swivel type, steel or stainless steel, and shall be 37° JIC, NPT, SAE "O" Ring Boss, or SAE "O" Ring Flange. Fittings shall be of the proper size to match the hydraulic line to which they attach. No welding of fittings will be allowed. Compression type fittings shall not be used in the system.

NOTE: NPT fittings may be used to connect to the hydraulic reservoir only.

- b. Tractor Hydraulics: A minimum of four factory installed remote circuits with SAE/ISO couplers shall be available in addition to the circuits used for the side mower. Each circuit shall have a selective control valve with float capability. At least one circuit shall have a positive detent to allow the control lever to be locked at maximum continuous flow. A variable pressure/flow compensated hydraulic system shall consist of: a variable pressure hydraulic pump capable of producing a minimum of 25 gal/min. at 2,900 psi.
- c. Mower Hydraulics: The mower hydraulic system shall be independent of the tractor hydraulics. An auxiliary front engine PTO shall power the mower hydraulic pump. The hydraulic pump shall be shielded or mounted within barriers for added protection. The hydraulic pump and motor shall provide a minimum 37 HP at the engine rpm corresponding to 540 rpm for the rear PTO mower. (Pump and motor charts, HP & GPM Vs. RPM, shall be supplied with the bid.) The mower hydraulic system shall be equipped with a dash mounted oil temperature gauge.

NOTE Gauges shall *not* be attached to plastic panels

The mower hydraulic system shall be equipped with a minimum 50-gallon reservoir mounted on the left side of the tractor to counterbalance the right side mower. The reservoir shall provide flange type inlets and outlets. Pipe couplings or nipples welded to the outside of the reservoir will not be acceptable. The reservoir shall be equipped with an oil level gauge mounted where it is easily visible. The mower hydraulic system shall utilize a replaceable filter(s) capable of removing 15 micron or smaller particles with flow capacity which exceeds that of the pump. The filter shall be positioned so as not to lose fluid while changing the filter. All hydraulic hoses shall be the SAE crimp type, high pressure (2500 psi) hoses with corresponding SAE fittings.

The hydraulic system used to raise, lower and tilt the side mower must have float positions. Hydraulic hose and fitting sizes shall be the maximum size required by the hydraulic pump manufacturer's standard literature. Mounting or placement of any hydraulic valves or valve banks in the rear wheel wells is not acceptable.

A fan forced hydraulic cooler capable of removing a minimum of 75% of the heat generated by the hydraulic system with ambient temperatures of 110° F shall be supplied. The cooler shall be mounted in a location that will minimize the amount of chaff that will mat in the cooler. The cooler fans shall be equipped with a reversing switch in the cab that will allow the operator to periodically blow chaff out of the cooler. The bidder shall supply information or calculations showing how their system will meet this requirement, prior to award of the bid.

15. EQUIPMENT: Equipment with access doors and shields which can be opened or removed while components continue to rotate shall have visible or audible indication of rotation. Access doors, guards, and shields which must be opened for normal servicing, shall be easily opened and closed without tools. All shields shall remain functional under the forces that would be applied by a 250 lb. individual leaning on, falling against, or stepping on them.
16. THREE-POINT HITCH: The tractor shall be equipped with a rear mounted, hydraulically controlled, category II three-point hitch in accordance with SAE J715. The three-point hitch hydraulic lift system shall be furnished with float capability, and a minimum lift capacity of 5,500 lbs.
17. POWER TAKE-OFF:
  - a. TRACTOR PTO: The tractor shall be equipped with an independent, 540/1000 RPM power take-off (PTO) in accordance with SAE J1170. The PTO shall have heavy duty housing and be located at the rear of the tractor and deliver a minimum of 95 HP.
  - b. AUXILIARY PTO: An auxiliary front PTO shall be installed and mounted at the front of the tractor. The front PTO shall be independent of the transmission and powered by the engine crankshaft. Adequate shielding shall be provided for any exposed portion of the auxiliary PTO drive line to prevent the operator from coming in contact with the positively driven members of that drive line.
18. SIDE FLAIL MOWER: The side flail mower shall be a heavy duty, hydraulically driven unit. The mower shall have a minimum cut width of 72 inches. The mower shall be equipped with replaceable, full length skid shoes on each side and a full width, rear mounted, gage roller minimum 6.0 inches in diameter and the wear surface of the skid shoes shall be "hard faced". The drive ratio shall be set for optimum operation when the engine is operating at the RPM that corresponds to 540 RPM.

The mower shall be equipped with general purpose, coarse type cutting knives mounted in pairs and capable of cutting roadside brush and vegetation up to 2.0 inches thick. One (1) additional set of cutting knives and skid shoes shall be supplied for each side mower.

The mower housing and gage roller assembly shall be so constructed as to restrict the mowing cut height to a minimum of 4.0 inches above ground level. The mower end plate assemblies shall also extend downward from normal, to accommodate the 4.0 inch cut height requirement.

The mower assembly shall be bolted to the full-length frame of the tractor for maximum stability and installed to provide right side operation of the mower. Welding to any portion of the tractor or tractor frame is **not** acceptable. The mounting shall distribute the load evenly across both sides of the frame. The mower frame shall support the full weight of the mower in the stowed position. The hydraulic cylinder(s) shall not support the weight of the mower in the stowed position.

As a minimum, the mower assembly shall be capable of operating throughout a range of 45 degrees up and 45 degrees down from a level tractor. The mower shall also be capable of mowing 45 degrees down slope while reaching over an 8 inch high curb. The mower head assembly shall be pivoted about an intermediate draft beam mounted between the frame and the mowing head. The head shall be operated directly by a hydraulic cylinder without the use of cables. The tilt cylinder must act directly between the mowing head and the draft beam. A restrainer or regulator shall be built into the mower hydraulic tilt system to automatically regulate the lowering rate of the mower and not allow the mower to drop uncontrolled. The restrainer or regulator shall not affect the raising rate of the mower.

The mower structure (housing, deflectors, and attachments) shall be designed, fabricated, and assembled in such a manner that, under normal operating conditions or the destructive conditions encountered during sudden impacts of rocks or metallic objects, none of the component parts of the mower shall fracture, brake, loosen, or deform in a manner that will make the mower hazardous to the operator or bystanders. The flail mower shall meet the requirements as established in SAE Standard J1001, documentation of meeting the standard must be verified prior to award of the bid.

Permanent safety signs with the words "DANGER - DISCHARGE OPENING", easily legible from a standing position, shall be placed at or near each discharge opening. Permanent instructions shall be placed on the mower, near the opening, stating that the mower shall not be used with the deflector or the attachment removed.

The rotor drive mechanism shall provide complete shielding of all driven members to prevent inadvertent contact during normal operating procedures of the mower. The rear deflector shall incorporate a hard rubber deflector flap that is firmly attached to the rear of the mower housing to limit the path of the ejected material to a downward direction. The rubber deflector shall also span the entire width of the mower and extend to ground level when the mower is in the mowing position.

Additional counterweights, not exceeding 1,500 lbs., may be used on the left side of the tractor only if they are necessary to provide stable mower operation throughout its range. The mower assembly shall mechanically lock into a vertical transport/non-use position on

level or uneven ground. Storage of the side mower shall be a one person operation from inside the cab. A safety device shall be installed to prevent the mower from starting when in the transport position.

19. MECHANICAL REAR FLAIL MOWER: The PTO driven mower shall attach to and be raised by the tractor three-point hitch, provide a minimum cut width of 96 inches and shall be driven at 540 rpm. The rear mower shall be hydraulically offset to the right side to provide a cut overlap of 6 inches to 10 inches with the side mower cut path. When hydraulically moved to the left the mower shall tuck in behind the mowing tractor. At no time shall the side shifting affect the operation of the mower. The mower shall be equipped with replaceable, full length skid shoes on each side and a full width, rear mounted, gage roller. The gage roller shall be a minimum 6.0 inches in diameter and the wear surface of the skid shoes shall be "hard faced".

The mower cutting knives shall be the general purpose, coarse type, mounted in pairs being capable of cutting roadside brush and vegetation up to 2.0 inches thick. One (1) additional set of cutting knives and skid shoes shall be supplied for each rear mower.

The mower housing and gage roller assembly shall be so constructed as to restrict the mowing cut height to a minimum of 4.0 inches above ground level. The mower end plate assemblies shall also extend downward an additional 3.0 inches from normal, to accommodate the 4.0 inch cut height requirement.

The mower structure (housing, deflectors, and attachments) shall be designed, fabricated, and assembled in such a manner that, under normal operating conditions or the destructive conditions encountered during sudden impacts of rocks or metallic objects, none of the component parts of the mower shall fracture, brake, loosen, or deform in a manner that will make the mower hazardous to the operator or bystanders. The flail mower shall conform to the requirements as established in SAE Standard J1001, documentation of meeting the standard must be verified prior to award of the bid

Permanent safety signs with the words "DANGER - DISCHARGE OPENING", easily legible from a standing position, shall be placed at or near each discharge opening. Permanent instructions shall be placed on the mower, near the opening, stating that the mower shall not be used with the deflector or the attachment removed.

The rotor drive mechanism shall provide complete shielding of all driven members to prevent inadvertent contact during normal operating procedures of the mower. The rear deflector shall incorporate a hard rubber deflector flap that is firmly attached to the rear of the mower housing to limit the path of the ejected material to a downward direction. The rubber deflector shall also span the entire width of the mower and extend to ground level. A mechanical support stand shall be installed for supporting the mower deck for maintenance while the mower is attached to the tractor.

20. CAB: The tractor shall be equipped with a fully enclosed suspended cab with key type locking doors. The cab shall be equipped with safety glass windows and Lexan stone guards; lexan may replace the factory installed safety glass if the installation meets Caltrans Quality standards. The installation shall be approved prior to installation. The Lexan guards shall be securely mounted with hinges on the side of the cab adjacent to the side mower to allow for swing out cleaning without the use of tools. The cab shall be constructed to afford the operator visibility throughout the entire operation. The cab shall be completely sealed and pressurized to protect the operator from the external environment. The cab shall include a filtration system capable of filtering out normal particulates encountered during roadside mowing operations (e.g., dust, pollen, etc.). The cab shall be furnished with a multi-speed cab heater, front and rear windshield defroster, and an integrated factory installed refrigerated air-conditioning.

In addition to the cab, the operator shall be protected by a Rollover Protective Structure (ROPS) in accordance with the State of California, Division of Industrial Safety, Construction Safety Orders, Title 8, Section 1596. A combination cab and safety guard approved by the Division of Industrial Safety will be acceptable. The safety shields used to protect the operator may be deleted with a fully enclosed cab. The following items, supplementing if necessary those items already cataloged as standard cab equipment, shall be furnished and installed:

- i. Left outside rearview mirror. The mirror and mounting bracket shall be a factory installed (OEM) breakaway type.
  - ii. Dual inside mirrors.
  - iii. A blind spot mirror located on the front right side of the tractor positioned in a manner to remove the blind spot caused by the mower in the transport mode.
  - iv. Steps and grab handles to safely enter and exit the cab.
  - v. Sun visor(S).
  - vi. Front and rear windshield wipers and washers.
  - vii. Cab shall be fully locking with three (3) complete sets of keys per unit.
  - viii. Standard manufacturer's AM/FM radio, complete with speakers and antenna.
21. CONTROLS: Placement of hand and foot controls shall be conveniently located as to provide the operator maximum comfort. Controls, which influence the movement of the machine and the operational direction of equipment, shall conform to the requirements as established by SAE J1814 Standard "Operator Controls for Off Road Machines". Where confusion may result from the movement of a control, the effect of the control shall be clearly and permanently identified.

Controls, which influence the movement of the mower assemblies, shall be conveniently located within the operator's compartment. These controls shall be permanently labeled

appropriately to identify their functions with a simple and readable lettering style or equivalent universal symbols. The control switch used to engage each flail rotor shall be equipped with a safety device that will prevent the engine from starting with the rotor engaged.

Controls to lift and tilt the side mowing head shall be equipped with a float position.

NOTE: No controls or gauges shall be mounted externally to the factory dash unless approved by the specification engineer prior to installation.

22. MISCELLANEOUS: Miscellaneous components to be supplied and installed shall include the following:

- a. Vandal Protection Package: The tractor shall be equipped with a vandal and theft protection package. Vandal protection shall include locks for the engine compartment, battery compartment, and all fluid fill ports. All locks shall be keyed alike and four sets of keys shall be supplied.
- b. An interior rear view mirror and two exterior side mirrors shall be supplied.
- c. Fenders: The tractor shall be equipped with rear wheel fenders to protect the operator from flying debris and excessive dust exposure created by the tires during machine operation and transport.
- d. Hood: The hood shall be the full tilting type. The hood can tilt either forward or backward as long as it allows full access to the engine compartment and radiator for maintenance and cleaning. The hood shall be fully supported in the full open position.
- e. Tie-downs: The tractor shall provide tie-down capability at or near each of the outside front corners of the machine. Tie-downs shall be the "D" ring type and compatible for use with 3/8 inch welded chain and hooks. The tie-downs shall be appropriately secured to and located on the tractor to provide adequate holding strength during transport of the machine. The rear three point hitch may be used for securing the machine for transport.
- f. Electronic backup alarm.
- g. Horn.
- h. Minimum 45 gallon fuel tank or a minimum of 9 hours of operation.
- i. A chaff screen shall be installed in front of the radiator. The screen shall not have a gap or mesh opening larger than 1/8 of an inch.

23. WELDING: All welding shall comply with the requirements as represented in American Welding Society (AWS), D14.3-82, and American National Standard entitled "Specification for Welding Earthmoving and Construction Equipment."

All welds shall be continuous except as noted. Intermittent or spot welds shall be

spaced and proportioned to provide ample strength for the material being welded. Weld sizes not indicated shall be equal to the thickness of the least of the joined plates.

All welds shall be properly fused, displaying proper penetration and a professional finish, and must meet the qualification requirements of applicable AWS specifications. Examples of unacceptable weldments are:

- |             |                       |
|-------------|-----------------------|
| a. Cracks   | d. Excessive Splatter |
| b. Undercut | e. Blow Holes         |
| c. Overlap  | f. Slag Entrapment    |

Any weld failing to comply with the AWS specification or failing to pass a quality assurance inspection performed by the State, will be corrected by the manufacturer, at their expense, and be corrected off State property. The State shall determine if a weld is acceptable or deficient.

Any deficient weld shall be corrected by a welder who is certified in accordance with the requirements as established by the American Welding Society (AWS). The welder shall have the proper certification documents indicating that he/she is qualified to perform the type, size, and position of the weld performed, with the welding process utilized, and on the material being welded. The supplier will be required to supply proof of current welding certifications for personnel performing any re-welding on the unit, upon request of the State whether written or verbal.

**GRINDING OF WELDS** must have prior approval of the Department of Transportation, Division of Equipment, Engineering Specifications. Welds which have been ground without approval shall be subject to complete re-welding upon request, at no additional cost to the State.

When drawings are supplied, the assembly dimensions and tolerances shall apply after welding. Excessive warpage of assembled parts is not acceptable. Weld symbols on supplied drawings shall be interpreted per American National Standard Welding Symbols. In the event of the lack of a weld symbol, the best commercial practice shall prevail. The covering of welds with body fillers or similar materials is unacceptable.

24. **PAINT**: The basic unit, the primary finish surfaces of any optional equipment, and other minor or incidental component parts shall be finish painted with lead-free (**100 PPM LEAD MAX**) standard factory color(s). The finish coat shall be free from runs, drips, sags, etc., and shall be evenly applied to provide a gloss finish. The finish or top coat shall be compatible for re-coat or touch-up with lead-free DuPont Imron 5000, polyurethane enamel; PPG Delta DUHS; or, Sherwin Williams Genesis, equivalent color. All paint and primer shall be lead free.

25. NOISE: Noise emitted by each unit delivered in compliance with these specifications shall comply with all California and Federal laws or regulations pertaining to maximum allowable emission of noise inside the operator's cab. The Time Weighted Average (TWA) noise dose shall not exceed 75 dB (A) inside the cab as measured according to SAE J 1116 "Sound Measurement – Off Road Self Propelled Work Machines Operator Work Cycle."

The supplier shall submit documentation to demonstrate compliance with this requirement.

26. LUBRICATION: The equipment shall be certified by the manufacturer for use with re-refined lubrication products. The re-refined lubrication products used by the State will meet or exceed all SAE, API, and NLGI specifications as required by the manufacturer.

Lubrication products used in each unit shall be compatible for top-off and refill with one of the following State contracted lubrication products:

- a. SAE 15W-40 motor oil.
- b. Dexron-III or Mercon automatic transmission fluid.
- c. Tractor hydraulic fluid.
- d. SAE 50 motor oil.
- e. SAE 85W-140 gear lube.
- f. NLGI #2 multipurpose grease.
- g. DOT 3 brake fluid.

For information regarding State contracted lubrication products, contact:

California Department of Transportation  
Division of Equipment  
PO Box 160048  
Sacramento, CA 95816-0048  
ATTN: Lubrication Coordinator, Ph: 916-227-9646

27. VEHICLE DOCUMENTATION REQUIRED: The original dealer's "Report of Sale" shall be furnished by all California licensed dealers at the time of delivery of each unit or units covered by these specifications.

A California certification of compliance for vehicle pollution must be supplied at the time of delivery of each unit.

An original weight certificate from a California certified Weigh Master must be supplied at the time of delivery of each unit.

A Federal Excise Tax Exempt Certificate will be attached to the purchase order.

All documentation supplied for registration shall contain the following:

State of California  
Department of Transportation/Equipment  
34th Street and Stockton Boulevard  
P. O. Box 160048  
Sacramento, CA 95816

All required documentation shall be sent to the above address by the time of delivery.

NOTE: The State shall register/license all vehicles with the Department of Motor Vehicles.

28. WORKMANSHIP: The equipment and any accessories shall be a product of good workmanship and shall be free from any defects that will affect their appearance or serviceability.
29. BOOKS AND MANUALS: One (1) set of standard operator's safety and operating instructions, lubrication instructions, and maintenance instructions shall be supplied with each unit. One (1) set of parts books and service/repair manuals shall be supplied and delivered with the unit(s) to each of the delivery "Ship To" destinations (Caltrans shops) as indicated in the "Invitation to Bid." Said manuals shall include both the tractor and mower units. Technical Manuals and documentation shall meet the requirements as established by ASAE Standard 363.1.

STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION  
DIVISION OF EQUIPMENT

ITEM NO	UNIT	CAB	TRANS	ENG	CAP	C.A.	F.A.	R.A.
59218	U	CANOPY	MANUAL	D-110			12.5	17.5

SPECIFICATION NUMBER: 59218-128-081

SPECIFICATION FOR: A FOUR WHEEL, GENERAL PURPOSE/AGRICULTURAL TRACTOR EQUIPPED WITH SIDE AND REAR MOWERS

PURCHASE ESTIMATE NUMBER: 32-12-5319\*

**ADMINISTRATIVE REQUIREMENTS**

1. **WARRANTY:** All installed equipment including any optional accessory or modification to cab and chassis, shall be free from defects in workmanship and materials and be covered (parts and labor) under warranty for one (1) year following the date the Department of Transportation (Caltrans) puts the unit into service. Caltrans will notify the supplier by mail of the in-service date and keep a record of the in-service date.

A copy of the manufacturer's standard warranty for the unit, any accessory, optional equipment, and components shall be supplied with each unit at delivery, or upon request. The manufacturer will be held responsible for warranty (commencing from the date Caltrans puts the unit into service) for the following circumstances:

1. The manufacturer's standard warranty exceeds one (1) year. Under this circumstance, the supplier is responsible until one (1) year is reached. The manufacturer will be held responsible for the balance of the manufacturer's standard warranty.
2. The supplier is no longer an authorized dealer of the equipment supplied. Under this circumstance, the manufacturer will be held responsible for the balance of the manufacturer's standard warranty. The manufacturer shall establish a fully operational warranty service provider with capabilities equal to or exceeding the supplier's (or his designated warranty provider) within 45 days of the supplier's authorized dealer termination.

If the supplier is not the manufacturer or manufacturer's authorized representative, then a statement agreeing to the warranty conditions stated herein shall be signed by the manufacturer and submitted upon request prior to Purchase Order award.

An In-Shop Warranty agreement (see attached), signed by the supplier or manufacturer, shall be supplied prior to Purchase Order award.

Caltrans, at its option, may perform warranty work under the terms of the In-Shop Warranty agreement. If Caltrans opts not to perform the warranty work, the supplier

shall pick up the unit within 48-hours of notification, written or verbal. The unit will be at a Caltrans facility. The unit shall be repaired and returned within 10 working days to the Caltrans facility where the unit was originally picked up. Upon prior approval with Caltrans and in compliance with all Caltrans Policies and Procedures, warranty work may be performed at a Caltrans facility.

The supplier may use a traveling mechanic to perform the warranty work. The supplier will be responsible for all associated costs (travel time, overtime, per diem, etc.).

Any supplier or manufacturer non-compliant with the warranty provisions set forth herein may be subject by the Procurement Division, Department of General Services, State of California to be removed from any future bidding.

For questions regarding the warranty or In-Shop Warranty agreement contact:

California Department of Transportation  
Division of Equipment  
P.O. Box 160048  
Sacramento, CA 95816  
Attn.: Warranty Coordinator (916) 227-9646

2. **TRAINING:** When training is requested on the Invitation For Bid, the supplier, at his expense, shall provide a qualified factory authorized service representative (not a salesman) to provide training for operators, mechanics, and parts personnel. This training (not a sales presentation) shall consist of hands-on operation, safety, service and adjustments for the operators; mechanical repair and adjustment specifications for the shop and field mechanics; parts manual orientation, nomenclature and ordering procedures for parts personnel. It shall also cover lubrication and servicing using Division of Equipment lubrication products. This lubrication product information will be provided to the supplier by the Division of Equipment Lubrication and Research Branch at (916) 227-9646.

A training plan outline, containing at least all of the subjects listed above, shall be submitted for approval within 30 days after receipt of the order (ARO) to the Division of Equipment Training Coordinator at (916) 227-9695.

The training shall be provided at the Caltrans Equipment Shop(s) specified in the Invitation For Bid. This training shall be for one (1) 8-hour day (or longer as the supplier or State deems necessary), and the date(s) of the training will be arranged by the Division of Equipment Training Coordinator (916) 227-9665. The full cost of this service shall be included in the bid. All training shall be accomplished within 45 days of acceptance and receipt of the unit at the shop indicated on the Invitation For Bid unless otherwise mutually agreed to between the supplier and the Division of Equipment Training Coordinator.

3. **SERVICE REPRESENTATIVE:** The supplier, at his expense, shall provide a qualified factory authorized service representative to be in attendance at the purchase order delivery site to make any necessary adjustments to the units and to give instructions to the equipment receiving inspectors to assure correct operation of the units

supplied. The supplier shall supply the service representative for one (1) 8-hour day at the delivery destination. The cost for this service shall be included in the bid.

4. IN-PROCESS REVIEW: The unit(s) may require an in-process review to verify timely progress of construction of the unit(s) and to ascertain compliance with the intent of the specifications and drawings. If there are any questions regarding the intent of the specifications or drawings, call the "Agency Contact" as indicated on the Purchase Order title page. Any in-process review will be at State expense conducted within the State of California only and will not constitute acceptance of the unit(s).
5. INSPECTION: This order will require a two (2) phase inspection process. For all inspections the unit(s) will be serviced, washed and ready for, as applicable, inspection or delivery. Inspections will begin within ten (10) working days from the date of the inspection request by the supplier. It is the supplier's responsibility to contact the Equipment Parts Coordinator at (916) 227-9636 for inspections. All Pre-delivery Inspection(s) shall be conducted at the same location.

NOTE: The Pre-delivery Inspection for all units shall be conducted at a common location.

FIRST PHASE (PRE-DELIVERY INSPECTION): In accordance with the State Administrative Manual, Section 4113 and the Caltrans inspection program, each unit will be inspected prior to shipment to the destination on the purchase order. This inspection trip(s) shall be State financed at no cost to the supplier.

Arrangements for pre-delivery inspections shall be made only when multiple units are complete. Each unit shall be identified with the applicable Purchase Order and Line Item. The vendor shall receive a copy of the inspection report within 4 working days of the inspection indicating that the first unit is either acceptable or not acceptable. Unacceptable or non-compliant items will be listed on the report. If late delivery charges accrue, the vendor will not be held responsible for those days from the request of the inspection to the receipt of the inspection report. If corrections are needed as a result of the inspection, the corrections shall be made prior to shipment to the purchase order destination. Authorization to deliver unit(s) must be granted by the Department of Transportation, Division of Equipment, Quality Assurance Section.

If additional interim inspections are required, such inspection trips shall be at the expense of the supplier at \$75.00 per hour (including travel time) and all expenses (meals, lodging, and cost of transportation). Travel expenses will be documented on State of California, Department of Transportation, Travel Expense Claim Form, FA302. These fees may be deducted from the invoice.

PRE-DELIVERY INSPECTION LOCATION: The inspections shall be conducted by the Department of Transportation, Division of Equipment, Quality Assurance. These inspections shall take place at an adequate site provided by the vendor within the State of California. The inspection site shall meet all of the following criteria:

- a. The site shall not be the Purchase Order delivery destination. The site shall be paved, secure and zoned for commercial use.

- b. The site shall include electricity, lights, water, compressed air and a secure paved lot. The facilities shall also include lift equipment adequate to raise the units and support them on safety stands with a minimum of 12 inches of tire clearance. The supplier shall provide conditions which meet the safety standards of CAL-OSHA and Title 8 of the California Code of Regulations.
- c. The adequacy of the site shall be determined by the Department of Transportation, Division of Equipment, Quality Assurance Section. Contact the Quality Assurance Chief at (916) 227-9709 for approval.
- d. If the facility is deemed unacceptable by the Department of Transportation, Division of Equipment, Quality Assurance Section, the vendor shall be billed for the inspection trip including wages and expenses. This cost shall be deducted from the purchase order payment.

**SECOND PHASE (FINAL INSPECTION):** Each unit will have a final inspection at its delivery destination shown on the Purchase Order to verify acceptability. The State will have five (5) working days after delivery of a unit to conduct the final inspection of said unit. Units delivered to the final Purchase Order destination will be accepted only when all Purchase Order requirements have been met, any shipping damages have been corrected, and all required documents are received by the Department of Transportation, Division of Equipment, Equipment Receiving. These documents include, as applicable, the invoice, vehicle registration documents, parts book, operator's manuals, service manuals, lubrication instructions and charts, warranty information, certifications, questionnaires, etc. Units which are not accepted by the delivery date on the Purchase Order will be considered delivered late.

If the supplier receives notice that the unit(s) is not acceptable, whether written or oral, the unit(s) shipped to the Purchase Order destination shall be removed within seven (7) calendar days. If the supplier fails to remove said unit(s) from the State's facilities within the specified period, the State may forward said unit(s) to the supplier by common carrier at the supplier's expense and risk.

6. **OUT OF STATE TRAVEL:** *If the supplier's inspection facility is not within the State of California*, the bidder should include in the bid price all expenses as listed below for inspection trip(s) for each person as outlined in the inspection section of the specifications and as follows:
  - Airlines and vehicle reservations will be done through the State of California automated system (RESX).
  - State employees assigned to inspection or travel will submit a Travel Expense Claim (TEC) to cover expenses for lodging, meals, per diem ground transportation mileage, tolls, parking, etc. to and from the airport at the point of departure - Sacramento, California and incidentals for each full workday at the supplier's designated facility for expenses incurred where the inspection(s) will be conducted in accordance with Caltrans Division of Accounting, Travel Reimbursement Guidelines as shown on <http://dot.ca.gov/hq/asc/travel/ch3.htm>. Travel expenses will be recorded in the State Accounting System as an expenditure to Caltrans Equipment Program.

- Caltrans Division of Accounting will set up and Accounts Receivable to bill the Vendor after the TEC submitted by employee has been processed. TEC, Airline, and Car Rental expenses are normally billed 30 days after the travel date.
- After the vendor or manufacturer pays the bill, the Caltrans Division of Accounting will abate the recorded expenditures.
- All references to "inspection trip(s) shall be State financed at no cost to the supplier" shall be superseded for the above mentioned expenses when out of state travel is required by the vendor.

The vendor shall receive a copy of the inspection report within 4 working days of the inspection. Unacceptable or noncompliant items will be listed on the report. If late delivery charges accrue, the vendor will not be held responsible for days in excess of the specified inspection report return period from the end of the inspection to the receipt of the inspection report.

If additional interim inspections are required, such inspection trips shall be at the expense of the supplier at \$75.00 per hour (including travel time) for each employee in addition to the above mentioned Out Of State Travel Expenses.

The State's internal Out of State approval process takes approximately 2-4 weeks for approval. The successful Bidder should plan on submitting an official Out of State request to the Equipment Receiving Manager, in a timely manner, as to assure the synchronization of the State approval with the corresponding inspection date. This process needs to be performed for as many inspections needed, as outlined in the inspection section of the specification. Inspections will begin within ten (10) working days from the date of the out of state inspection approval.

**NOTE:** A time extension shall not be granted if the successful bidder does not initiate the Out of State travel request within a timely manner, as to allow the State ample time for the approval process.

7. **DELIVERY:** Inspection, delivery, and final acceptance of all units on the Purchase Order shall be within 240 calendar days after the Purchase Order date. Contact the State of California, Department of Transportation, Division of Equipment of Equipment Parts Coordinator at (916) 227-9636 for delivery.

Failure of any units to comply with the specifications by the final delivery date may place the supplier in default and may be grounds for the State to invoke Paragraph 26 of the General Provisions, Rights and Remedies of the State for Default. The Department of General Services, Procurement Division will be notified at such time.

Acceptance of delivery or placement in operation of any equipment shall not release the manufacturer from liability for faulty design, workmanship, or materials appearing even after the final payment have been made.

8. **LATE DELIVERY CHARGES:** The parties to this agreement acknowledge that the State shall incur actual damages should the supplier fail to perform the work as called out in the contract and specification on the dates set forth herein. The parties, therefore, have agreed to late delivery charges in the amount of \$45.00 per unit per work day. Workdays are Monday through Friday inclusive, except State holidays observed Monday through Friday inclusive.

The parties also agree that the amount specified is not unreasonable nor punitive in nature because both parties have carefully considered the amount specified and believe it to be a reasonable estimate, and not excessive at the time the purchase order is entered into.

It is, therefore agreed, that the supplier will pay the State of California the sum of \$45.00 per unit per work day (as stated above) for each work day the work remains uncompleted or unaccepted by the State, provided the total late delivery charges assessed against supplier shall in no event exceed twenty-five percent (25%) of the total value of the entire order, and the supplier agrees to pay said damages as herein provided. In the event such damages are not paid, the supplier agrees that the State may deduct the amount thereof from any monies due or that may become due said supplier.

9. PAYMENT: Process for payment will be initiated on each unit as units are received and deemed acceptable. The discount period will start after acceptance of each unit on the Purchase Order.
10. QUESTIONNAIRE: The attached questionnaire shall be filled out and will become a part of each bid submitted. Any portion of the questionnaire that is not applicable to the equipment shall be shown as N/A (not applicable).

Unless otherwise stated in the purchase order, the requirements of the written purchase order specification shall have precedence over the completed questionnaire; and the completed questionnaire shall have precedence over standard factory specifications or literature.

11. GENERAL: One (1) complete set of additional filters (air, oil, water, fuel, hydraulic, etc.) shall be supplied with the first unit delivered. This additional set of filters shall be as recommended by the manufacturer and shall be complete with the appropriate part numbers for identification. NOTE: Filters to be supplied do not include Filtration System filters.

Each unit and any accessory shall be delivered completely assembled and ready to operate.

No exceptions to the specifications will be allowed unless the exceptions are listed on the purchase order or subsequent addenda.

The component parts of the unit shall be new and of proper size and design to safely withstand the maximum stresses imposed.

The manufacturer's torque rating of each driven part shall be equal to or exceed the torque rating of its driving member.

Complete printed specifications, published literature, and photos or illustrations of unit or units that the bidder proposes to furnish shall be supplied upon request.

All equipment and accessories cataloged as standard, unless superseded by these specifications, are to be furnished and included in purchase price of this unit.

The supplier or the manufacturer of the equipment being supplied shall guarantee that all replacement parts for the equipment shall be available for delivery to the State within five (5) working days after the request is telephoned to the manufacturer, or supplier. This requirement shall be in effect for a period of five (5) years after the date the equipment is put into service by the State of California. Suppliers may be removed from the bid list for failure to meet the parts availability obligation.

Bids will not be considered if supplier's designated f.o.b. delivery destination is other than the delivery address stated in the invitation to bid.

Only new models, produced and assembled by existing manufacturers of like or similar equipment (i.e. – municipal catch basin/drain line cleaners, industrial vacuum machines, etc.), will be considered. Special options may be included only when recommended by the manufacturer of the unit and approved by the State.

All equipment/options are to be factory installed. If the equipment/options are not available factory installed, dealer installed equipment/options may be acceptable. The bidder is to specify those items that will be dealer installed.

"Caravan" or "drive-away" deliveries from points outside the State of California will not be accepted.

The State reserves the right to amend the contract, up to 10% of the Purchase Order amount, to cover deficiencies or inconsistencies within or between the drawings and the technical specifications. These amendments shall cover the cost of any materials involved, and/or the standard shop labor rate for modification or installation.

The State reserves the right to purchase one (1) additional unit, or up to an additional 25% of the quantity on the Purchase Order, at bid prices, for State Agencies and California Local Government Agencies. Orders for such additional units shall be placed within 180 days of bid award date.

\*\*\*\*\*

I have received, read and agree to the Special Provisions for Solicitation 57279, of seven (7) pages.

  
Signature of Vendor

HANK OTTEN  
Printed Name

4/21/09  
Date

**CALTRANS IN-SHOP WARRANTY AGREEMENT**

Name of Supplier/Manufacturer Kern Machinery, Inc. (Bakersfield)  
Warranty Representative (print or type) Hank Otten  
Street Address 520 S. Mt. Vernon Ave.  
City, State, Zip Code Bakersfield, CA 93301  
Telephone Number 661/833-9900  
Solicitation No. 57279 Due Date 4-17-09  
Item (Quantity/Brand/Model) (11) John Deere 6430, (7) Schulte, (11) Tiger Mowers,  
(7) Rears Flails

When equipment is purchased for Caltrans, a section of the specifications requires the supplier/manufacturer to enter into an In-Shop Warranty Agreement.

The terms of the In-Shop Warranty Agreement for this equipment are as follows:

1. Labor rate charged by Caltrans will be \$150.00 per hour.
2. Warranty claims will be processed on a Caltrans Work Order unless the supplier/manufacturer furnishes standard warranty forms.
3. Suppliers'/manufacturers' standard flat rate time schedules shall be used as a guide for In-Shop Warranty repair time. If a supplier's/manufacturer's flat rate time schedule is not available, Caltrans will use the time that is recorded on the Caltrans Work Order.
4. Replacement parts will be available within 5 working days from the date of receipt by supplier/manufacturer of a Purchase Order, whether the order is made by telephone or in writing.
5. Replaced parts will be held 60 days for inspection by the supplier/manufacturer.
6. Original Equipment Manufacturers' parts will be used as replacement parts; or, if OEM parts are not available, after-market parts of equal or better quality will be utilized.
7. Copies of invoices for all parts will be provided to the supplier/manufacturer.

Caltrans will contact the supplier/manufacturer for authorization to perform In-Shop Warranty repairs as stated in this agreement. Only under extreme emergency conditions will In-Shop Warranty be performed without prior authorization. If Caltrans opts not to perform the warranty work, the supplier shall pick up the unit within 48 hours of notification, written or verbal.

In-Shop Warranty Agreement shall remain in effect until all conditions of warranty in the State of California specifications and in the original manufacturer's warranty expire.

Signature, Caltrans Warranty Coordinator \_\_\_\_\_  
Signature, Supplier/Manufacturer Hank Otten 4/21/09 Date  
Date

**TRACTOR QUESTIONNAIRE**

Make John Deere  
Model/Yr. 6430 / 2009

1. **WEIGHT**

SAE operating weight as specified of tractor with mowers 15950 lbs.  
Front axle weight 9300 lbs.  
Rear axle weight 13,700 lbs.  
Operating weight of the base tractor (less mowers) 10,474 lbs.

2. **DIMENSIONS**

Indicate the following vehicle dimensions:

a. Overall vehicle length 18 ft.  
b. Overall vehicle height 9'10" ft./in.  
c. Overall vehicle width w/ mower 8' ft./in.  
d. Vehicle height to top of ROPS canopy 9'10" ft.  
e. Tread Width:  
Front 420 / 70R24 ft.  
Rear 520 / 70R24 ft.  
f. Wheelbase 7'10" ft.  
g. Ground clearance 12" in.  
h. High center clearance 10" in.

3. **ENGINE**

Make/ Model John Deere 6430 (4 valve) PowerTech Plus  
Gross HP 175 @ 2300 rpm  
PTO HP 95 @ 2300 rpm  
Net torque 329 lb-ft @ 1499 rpm  
Is the engine turbo-charged? (Yes/No) yes  
California Air Resources Board (CARB) Executive Order "Engine Family Name" IDXL 06.8107 U-R-004-0240

Engine displacement 4.5 L

Is the tractor equipped with both audible and visible warning devices for the following critical conditions?

a. Low engine oil pressure yes  
b. High engine coolant temperature yes  
c. High hydraulic temperature yes

4. **TRANSMISSION**

Is the transmission fully synchronized? (Yes/No) If no please explain. yes  
2D IVT

Number of forward speeds w/o creeper \_\_\_\_\_; w/creeper infinite  
Number of reverse speeds w/o creeper \_\_\_\_\_; w/creeper infinite  
Tractor speeds at full RPM with creeper engaged:  
First gear .03 mph; Second gear \_\_\_\_\_ mph  
Third gear \_\_\_\_\_ mph; Top gear \_\_\_\_\_ mph  
Maximum forward travel speed 25 @ 1400 rpm mph

5. **AXLES AND DRIVES**

Is the rear axle equipped with lockup capability? (Yes/No) yes  
Describe the lockup system hydraulic engaged  
SAE front axle rating 13,000 lbs.  
Spindle Offset? 12"  
Front axle width 86" Rear axle width 100"  
Gross axle weight rating: Front 13,000 lbs.  
Rear 18,000 lbs.

6. **STEERING**

Is the steering system capable of emergency steering when the engine is inoperable? (Yes/No) yes  
Describe the emergency steering system gear dump  
Minimum outside turning radius 17 ft 10 in.

7. **BRAKES**

Are the service brakes self adjusting? (Yes/No) yes  
Is the braking system capable of emergency braking when the engine is inoperable? (Yes/No) yes  
Describe the emergency braking system manual hydraulic positive engagement/operator pumps them up with foot pedals  
Describe the parking brake positive lock w transmission  
Is the tractor equipped with a readily visible warning light to indicate when the parking brake is applied while the engine is running? (Yes/No) N/A

8. **TIRES AND WHEELS**

**Front:** Wheel size 420 / 70R24  
Tire Mfg. & Tread design Goodyear or Titan, R1  
Ply rating radial 8  
Carrying capacity per wheel 7490 lbs @ 28 psi  
**Rear:** Wheel size 520 / 70R34  
Tire Mfg. & Tread design Goodyear, Titan, R1  
Ply rating 8  
Carrying capacity per wheel 8980 lbs. @ 28 psi  
Maximum rated tire/vehicle speed 30 mph  
Tire Clearance 5 inches

9. **AIR AND OIL FILTRATION**

Is the air cleaner equipped with a precleaner? (Yes/No) yes  
Is the tractor equipped with an engine air intake restriction gauge? yes

10. **EXHAUST SYSTEM** is the exhaust stack equipped with the following? (Yes/No)

Rain cap yes Elbow yes Muffler yes

11. **ELECTRICAL SYSTEM**

Group size & number of batteries supplied one, AGM  
Operating system voltage 12 800 CCA V

Alternator output rating 115 \_\_\_\_\_ A

12. **HYDRAULICS**

Are pump & motor charts supplied as required? (Yes/No) yes  
Mower hydraulic system oil cooler rating 18,500 \_\_\_\_\_ BTU  
Mower hydraulic system reservoir capacity 50 gal \_\_\_\_\_

**Side Mower**

Pump make/model Tiger/Gear P25  
Motor make/model Tiger/Gear M25  
Filtration capability 10 \_\_\_\_\_ microns

13. **EQUIPMENT**

**Three-Point Hitch**

What is the lift capacity of the category II three-point hitch? 5825

**Power Take-Off**

Is the rear PTO independent of the tractor transmission? (Yes/No) yes  
Maximum rear PTO power rating 95 hp @ 2300 rpm  
Is the tractor equipped with a front PTO? (Yes/No) yes, front drive  
Maximum front PTO power rating 115 hp @ 2300 rpm

14. **SIDE FLAIL MOWER**

Make/model Tiger TSF-75C  
Mower cut width 75 inches  
Mower cut height 4 min. 6 max. inches  
Thickness of mower housing & end plates 1/8" / 3/8" in.

15. **REAR FLAIL MOWER**

Make/model Rears DOT 96 (Cal-Trans Special)  
Mower cut width 96 inches  
Is the rear mower **hydraulically** offsettable to provide a continuous cut path with the right side mower? (Yes/No) yes  
Overlap 6-10 in. hydraulic adjustment distance 20 in.  
Thickness of mower housing 1/8 in. end plates 3/8 in.

16. **OPERATOR'S COMPARTMENT**

Is the operator's compartment equipped with the following items? (Yes/No)  
Adjustable, cushioned, suspension seat yes, air seat  
Protective lexan shield(s) yes  
ROPS canopy yes, Cab  
ROPS maximum tractor weight rating 18,000 lbs.

17. **CONTROLS**

Are the controls to lift/tilt the side mower head equipped with a float position? (Yes/No) yes Tilt restrictor? yes  
Is the tractor equipped with a safety device to prevent the engine from starting when either mower is engaged? (Yes/No) yes

18. **MISCELLANEOUS**

Fuel tank capacity 48 gallons  
Engine Fuel Consumption 5 Gal. per hour

## OPTIONS QUESTIONNAIRE

### 1. Rotary Mowers (Rear)

Rear: Make/model John Deere MX8  
Mower cut width 96 in.  
Is the rear mower equipped with two, adjustable tail wheels? (Yes/No) yes  
Number of cutting blade mounting holes per mower 4  
Mower housing metal thickness 1/4 in.  
Are the mowers equipped with rear chain deflectors? (Yes/No) yes

### 2. Rotary Mowers (Side)

Rear: Make/model Tiger Corp / TM-60C Tiger side rotary  
Mower cut width 60" in.  
Is the mower equipped with two, wheels? (Yes/No) yes  
Number of cutting blade mounting holes per mower 6  
Mower housing metal thickness 1/4" in.  
Are the mowers equipped with rear chain deflectors? (Yes/No) yes

### 3. Cab

Is the cab equipped with safety glass? (Yes/No) yes  
Pressurized with filtration? (Yes/No) yes  
Describe the filtration system pressurized, inside filters  
outside filters  
Is the cab equipped with the following items: (Yes/No)  
Front and rear windshield wipers and washers yes  
Recirculating heater & AC yes  
Front and rear defrosters or defogger fans yes  
Tractor mfg.'s specified maximum recommended weight with ROPS cab lbs.  
18,000 lbs  
Is cab rated for HEPA filter pressurization (Yes/No) yes

### 4. Front Axle, 2X4

Wheel size 12.5/80x18  
Tire Mfg. & Tread design Ideal R4  
Ply rating 10  
Carrying capacity per wheel 1950 lbs. @ 28 psi  
Maximum rated tire/vehicle speed 30 mph

### 5. Towable Rotary Mower

Make/model Schulte XH 1500  
Mower cut width 180 in.  
Number of mowing decks 3  
Mower transport width 702 in.  
Do the cutting blades provide pivot capability with 360° rotation to protect against impact damage? (Yes/No) yes  
Mower housing metal thickness 1/4 in.  
Is the mower equipped with rear deflector chains? (Yes/No) yes

6. **Loader Assembly**

Make/model Tiger TG 5211C

Is the loader assembly the quick attach and detach type? yes

Time required to; Detach loader 20 mins Attach loader 20 mins

Bucket capacity: SAE rated (nominally heaped) capacity .65 cu yds.

Does the bucket width exceed the front tire width? (Yes/No) yes

Indicate the following SAE dimensional and operational capabilities of the loader assembly:

a. Dump height (clearance) @ maximum lift and 45° dump angle 100 in.

b. Reach - fully raised @ 45° dump angle 24 in.

c. Lift capacity to maximum height 3000 lb.

d. Breakout force 5000 lb.

Is the loader assembly equipped with the following? (Yes/No)

Support stands? yes

Lift arm support device? yes

Quick coupler? yes

Float capability? yes

Self-leveling device? yes Lift position

7. **Broom:**

Make/model Sweepster Model AD84

hydraulic requirements 18 gpm

Describe attachment mounting front mount

### OPTIONS

Any of the following options may be required. The vendor shall furnish and install only those options listed on the invitation to bid and Purchase Order. Price on options listed shall be per unit.

1. REAR ROTARY MOWER: A rotary type mower shall be furnished in lieu of the specified flail mower on the rear. The rotary mower shall be mechanically driven and conform to the same operational and structural requirements as the rear flail mower unless otherwise specified. The rear rotary mower shall have a minimum cut width of 8 feet. As with the flail mowers, the rear mower shall hydraulically offset to the right side to provide a cut overlap of 3 inches to 6 inches with the side mower cut path. A mechanical support stand shall be installed for supporting the mower deck for maintenance while the mower is attached to the tractor.

The rotary mower shall have a minimum of two (2), flat type cutting blades mounted to a minimum of the two (2) rotary discs. All cutting blades shall have pivot capability with 360° rotation to protect against impact damage. One (1) additional set of cutting blades shall be furnished with each mower.

The mower housing and end plate assembly of each mower shall be constructed to restrict the mowing cut height to a minimum of 4.0 inches. The mower end plate assemblies shall extend downward to accommodate the 4.0 inch cut height requirement with full coverage. The rotary mower shall conform to the requirements as established in SAE J232.

The mower rear discharge openings shall be equipped with a double row of chain type deflectors to restrict the path of ejected material to a downward direction. The chain deflectors shall extend down to ground level when the mower is adjusted to the 4.0 inch required mowing height. The rear rotary mower shall be equipped with two adjustable, hard rubber type tail wheels, mounted at the rear of the mower.

OPTION 1 PRICE: \$7,225

2. SIDE ROTARY MOWER: A rotary type mower shall be furnished in lieu of the specified flail mower. The rotary mower shall be hydraulically driven and conform to the same operational and structural requirements as the flail mower unless otherwise specified. The rear rotary mower shall have a minimum cut width of 6 feet.

Note: Installation of a rotary mower will increase the overall vehicle width to 116 Inches.

The rotary mower shall have a minimum of two (2), flat type cutting blades mounted to. Each blade shall be equipped with an impact ring and a skid pad. All cutting blades shall have pivot capability with 360° rotation to protect against impact damage. One (1) additional set of cutting blades shall be furnished with the mower.

The mower housing and end plate assembly of each mower shall be constructed to restrict the mowing cut height to a minimum of 4.0 inches. The mower end plate assemblies shall extend downward to accommodate the 4.0 inch cut height requirement with full coverage. Mower decks shall have a minimum thickness of 0.1875-inches. The rotary mower shall conform to the requirements as established in SAE J232.

Discharge openings shall be equipped with a double row of chain type deflectors to restrict the path of ejected material to a downward direction. Chain deflectors shall extend down to ground level when the mower is adjusted to the 4.0 inch required mowing height. The rear rotary mower shall be equipped with an adjustable, wheel with pneumatic tires mounted at the rear of the mower.

OPTION 2 PRICE: \$ 150

3. BATWING MOWER: In addition to the side and rear flail mowers a 180-inch cut width batwing mower shall be supplied. The batwing mower shall have a minimum cut width of not less than 180 inches. The mower assembly shall be factory assembled and consist of a center mowing deck and two- (2) outboard mowing wing decks. Mowing deck blades shall overlap to provide an even 180-inch cut width. The mower shall have the ability to provide height adjustment across the center and wing sections of the mower. The mower shall have the ability to turn a minimum of 75° without causing any driveline vibrations.

The mower shall mount to the tractor draw bar using heavy-duty, hitch and shall be equipped with safety tow chains. The unit shall utilize a PTO driveline to power the mowers. The PTO drive shall be fabricated from shafts with splined ends, constant-velocity universal joints and shall be driven at 540 rpm. All drivelines shall be protected by factory-preset, self-adjusting slip clutches and are fully shielded for safety.

Each mowing deck shall comprise an independent rotary mower. Each rotary mower shall have a minimum of two (2), updraft type, and cutting blades capable of cutting roadside vegetation up to 2.0 inches thick. Each blade shall be equipped with an impact ring and a skidpan. Each outer deck shall be able to float to follow ground contour for an even cut (a minimum 25 degrees up and down). To protect against impact damage, all cutting blades shall have pivot capability with 360° rotation and mount to a rotary disc or orbital pan. One (1) additional set of cutting blades for each mower shall be furnished with the unit.

The entire assembly shall be hydraulically raised a minimum 8 inches above its standard mowing height for towing to and from the work site. The two (2) outboard wing decks shall provide hydraulic lift and float capability to allow each wing deck to be independently raised and mechanically locked into a 90-degree non-use/transport position. With both wing decks raised, the unit shall provide a maximum transport width of 102 inches.

The mower structure (housing, deflectors, and attachments) shall be designed, fabricated, and assembled in such a manner that, under normal operating conditions

or the destructive conditions encountered during sudden impacts of rocks or metallic objects, none of the component parts of the mower shall fracture, brake, loosen, or deform in a manner that will make the mower hazardous to the operator or bystanders. Each rotary mower shall conform to the requirements as established in SAE J232. Mower decks shall have a minimum 7-gauge (.18 in) plate thickness.

The mower housing and end plate assembly of each mower shall be so constructed as to restrict the mowing cut height to not less than 4.0 inches. The mower shall not be capable of cutting less than 4.0 inches above ground level.

Each mower rear discharge opening shall be equipped with a double row of chain type deflectors to restrict the path of ejected material to a downward direction. The chain deflectors shall extend down to ground level when the mower is adjusted to the required 4.0 inch mowing height. The mower shall be equipped with an adjustable spring or tandem walking axle suspension with a minimum of six tail wheels with used aircraft tires (Ref. Schulte XH1500 or comparable, with hydraulic phasing system).

OPTION 3 PRICE: \$23,422

4. BATWING MOWER: in lieu of the rear shall be supplied. All other aspects of the rear mower shall be identical to the mower in Option 3.

OPTION 4 PRICE: \$14,977

5. FRONT STEERING AXLE (2X4): A heavy-duty front axle with dual remote steering cylinders shall be installed having a minimum capacity rating of 9,000 lb. In no event shall either the front or rear axle be subjected to an overload condition with all equipment specified. The axle shall have the minimum amount of spindle to axle center line offset offered by the tractor manufacturer and a minimum fifteen degrees of axle oscillation. The tires used on this axle shall be the same make and model as the rear tires and shall be a minimum 12.5-18.

OPTION 5 PRICE: \$ N/A

6. LOADER ASSEMBLY: The manufacturer's standard front loader assembly typical for general purpose loading applications shall be supplied with the unit. The tractor shall be equipped with the necessary hydraulic valves, controls, connectors and front axle to operate the loader assembly. The loader assembly shall be the quick attach and detach type with support stands to allow for easy installation and removal. The hydraulic fittings shall also use dripless type quick couplers arranged so the functions cannot be mixed up. The loader assembly shall be designed to mount and operate with the side and rear mower heads in place even though the loader and mower(s) shall not be installed at the same time. The loader will be installed by State field personnel after the side mower head has been removed.

The loader assembly shall be hydraulically operated, mounted to the front of the tractor, and be fully operational from the operator's compartment. The loader assembly shall be equipped with a general purpose bucket having a minimum SAE

rated (heaped) capacity of 0.65 cubic yards or SAE struck capacity of 0.5 cubic yards. The bucket width shall be at least 84 inches and must exceed the width of the front tires. The bucket shall be equipped with a replaceable, bolt-on type cutting edge. One (1) additional cutting edge shall be furnished with the bucket.

The loader bucket assembly shall be equipped with hydraulic lift and hydraulic tilt cylinders and shall provide dumping capability at any desired height within its range. Controls to lift the bucket assembly shall be equipped with a float position. The bucket assembly shall be equipped with a self-leveling device to maintain a level bucket position while lifting. The loader assembly shall meet or exceed the following SAE J732 operational requirements:

- a. Dump height (clearance) @ maximum lift and 450 dump angle 96 inches
- b. Reach - fully raised and 450 dump angle 24 inches
- c. Lift capacity to maximum height: 2,500 lbs.
- d. Breakout force: 4,000 lb
- e. Overall Vehicle Width: 114 in. (with loader attachment)

The loader assembly shall be furnished with a lift arm support device to prevent accidental lowering of the lift arms when in the elevated position for maintenance and servicing purposes. The loader assembly shall be equipped with the loader manufacturer's standard quick coupling device to quickly remove and reinstall the front loading bucket. The tractor shall also be equipped with a minimum 25.0 GPM hydraulic pump to operate the loader assembly.

OPTION 6 PRICE: \$17,333

7. LOADING FORKS - HYDRAULIC: Adjustable loading forks shall be supplied with the loader. The loading forks shall be installed to provide forklift type operation from the front of the loader. The forks shall be mounted to the loader frame quick coupling system. The forks shall be adjustable providing a minimum spread of 18 inches or less and a maximum spread of 60 inches or more. The forks have a minimum lift capacity of 2,500 lb.

OPTION 7 PRICE: \$10,000

8. BROOM: A front mounted auto-sensing rotary broom shall be installed and supplied with the mowing tractor. The broom shall use a steel core with approximately 32" diameter X 84" wide prefabricated disposable quick change wafers using polypropylene filler. The dual hydraulic motors power shall come from the side mower hydraulic system. A set of valves shall be used to direct flow from the mower circuit to the front mounted broom. The broom shall be mounted so as to be quickly connected and disconnected including hydraulic lines. Ref. Sweepster, Model AD

OPTION 8 PRICE: \$12,500

9. BOX SCRAPPER: A Category II three point hitch mounted box scrapper with a minimum of five heat-treated hydraulically adjustable shanks and an adjustable hinged rear flap. The scrapper shall have a roll formed moldboard with a reinforced box design. Scarifier shanks and moldboard edges shall be replaceable with standard hand tools. Additionally, scarifier shanks shall have replaceable points. The scrapper shall have a minimum width of 84-inches, and a minimum 30 cubic foot capacity. The scrapper shall have 1/2-inch side plates and reversible cutting edge(s). Ref. Woods Equipment Company, Model HD-4284-HB high back.

OPTION 9 PRICE: \$5000

**Postconsumer-Content  
 Certification**

To be completed by the State agency	
State Agency	
Purchasing Agent	PO #
Phone	E-mail

The State Agency Buy Recycled Campaign (SABRC) is a state mandated program that requires the reporting of all purchases made within 11 specified product categories. All state agencies are required to verify the recycled-content of all products purchased within each of these categories.

All businesses shall certify in writing to the contracting officer or his or her representative the minimum percentage, if not exact percentage, of postconsumer recycled-content (PCRC) material in the products, materials, goods, or supplies offered or sold to the State regardless of whether the product meets the minimum content requirements specified in law (see reverse side). The certification shall be furnished under penalty of perjury. The certification shall be provided regardless of content, even if the product contains no recycled material. A State agency may waive the certification requirement if the percentage of postconsumer material in the products, materials, goods, or supplies can be verified in a written advertisement, including, but not limited to, a product label, a catalog, or a manufacturer or vendor Internet website.

Contractor/Company Name JOHN DEERE / KERN MACHINERY INC  
 Address 520 S. MT. VERNON AVE BAKERSFIELD, CA Phone 661-833-9900

Purchase Order # RFQ # RFP # IFB # Cal Card Order #	Item #	Product or Services Description	<sup>1</sup> Percent Postconsumer Recycled-Content Material	<sup>2</sup> SABRC Product Category Code	Meets SABRC
BID # 57279	32-12-5319	JOHN DEERE 6430 TRACTOR	73%	11,6A	

Public Contract Code sections 12205 (a) (1), (2), (3) and (b) (1), (2), and (3)

Pursuant to Public Contract Code 12205(a)(1), I certify under penalty of perjury under the laws of the State of California that the above information is true and correct.

HANK OTTEN  GOV'T SALES 4/14/09  
 Print Name Signature Title Date

(See footnotes on the back of this page.)