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

Form GSOP 1-PIN (04/98)

Purchase Order No.	Rev.	Date
62347		5/12/2009

Supplier No.	Solicitation No.	Delivery Date	FOB Point	Invoice Terms
720366	57292	180 Days ARO	Destination	

KASSBOHRER ALL-TERRAIN
VEHICLES, INC.
750 S. ROCK BLVD.
RENO, NV 89502
Attn: SAM TRAFTON

Phone: 775-857-5013

Ship To:
DEPT PARKS & RECREATION
MOBILE EQUIPMENT WHSE
3930 SEAPORT BLVD
WEST SACRAMENTO, CA 95691
Attn: C BELLTAWN (916)375-6828

Charge To:
PARKS & RECREATION A-50
1416 NINTH STREET
SACRAMENTO, CA 94296
ATTN: AMANDA MIRANDA

Agency Billing	Agency Purchase Estimate	Purchase Estimate	Revision
53683	E08K0004	67405	0

Agency Contact	Phone	Date Received
AMANDA MIRANDA	916-657-4085	

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension

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:
www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf

THE FOLLOWING INFORMATION IS PROVIDED FOR AGENCY USE ONLY:
PRIME CONTRACTOR: NS
FISCAL YEAR: 2008/2009

1	1	EA	2350-000-0008-8	SNOW VEHICLE (SNO-CAT) (AS DESCRIBED) "SNOW VEHICLE (SNO-CAT)" EIGHT (8) PASSANGER/CARGO, 140HP MEETING THE REQUIREMENTS OF SPECIFICATION # 683-08-01 OF TEN (10) PAGES DATED, MARCH 10, 2009.	164,000.0000	164,000.00

Brand: PISTEN BULLY
Model: PB 100 UTILITY

Total Value: 164,000.00

F.O.B. Destination
For the purpose of this order only F.O.B. Destination will be accepted.

ATTACHMENTS
THE FOLLOWING ATTACHED DOCUMENTS ARE PART OF THIS PURCHASE ORDER.

1. DEPARTMENT OF PARKS AND RECREATION ADMINISTRATIVE REQUIREMENTS #683-08-01AR, OF SIX (6) PAGES.
2. SPECIFICATION # 683-08-01 OF TEN (10) PAGES, DATED 03/10/2009.
3. QUESTIONNAIRE OF THREE (3) PAGES.

PRECONSTRUCTION CONFERENCE
After award a preconstruction conference shall be held between the State and contractor within ten (10) calendar days after formal award of the purchase order. This conference shall be held prior to the start of any construction. The purpose of this meeting is to review specifications, resolve any questions concerning the specifications and/or variations of the chassis.

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

Buyer	Phone	BOC Number
LONNIE WILLIAMS	916-375-4586	

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*
62347		5/12/2009	720366	KASSBOHRER ALL-TERRAIN

Item No.	*Quantity*	*Unit*	*Commodity Code*	*Description*	*Unit Price*	*Extension*

Contact:
Department of Parks & Recreation
Mobile Equipment Whse.
3930 Seaport Blvd.
West Sacramento, CA 95691
Attn: Case Belltawn
Phone: (916) 375-6828

DELIVERY
Delivery is to be completed in full within 180 days ARO.

Delivery to be made during normal business hours Monday through Friday, 8:00am-12:00pm or 1:00pm to 4:00pm, except State Holidays.

The SNO-CAT is to be delivered to the following address:
All required documentation shall be sent to the address below by the time of delivery.

Department of Parks & Recreation
Mobile Equipment Whse.
3930 Seaport Blvd
West Sacramento, Ca95691
Attn: Case Beltawn
Phone: (916)375-6828

DOCUMENTATION: The following documents shall be delivered to the consignee (receiving agency) with the vehicle:

1.) Completed and signed pre-delivery inspection checklist, including the purchase order number and vehicle ID.
2.) "Line Set Tickets" or "Window Sticker" showing all options installed.

FEDERAL EXCISE CERTIFICATE
Federal Excises Tax Certificate attached.

SCPRS
This Purchase order has been registered into the state contact and procurement registration system (https://www.scprs.dgs.ca.gov/). The registration number is EP 1007843.

CHANGE ORDERS
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.

STATE OF CALIFORNIA
DEPARTMENT OF PARKS AND RECREATION
ADMINISTRATIVE REQUIREMENTS # 683-08-01AR

BIDDERS QUALIFICATION:

Bids will be considered only from those manufacturers with a record of sales, use and acceptable performance in North America mountainous terrain for at least two (2) years. This includes, and is not limited to, snow removal capacity, parts availability, and service response. A reference list of owner-operators, providing names of the company or agency and contact names (English speaking), addresses and telephone numbers shall be furnished with the bid to verify the proceeding. Failure to provide this list may result in rejection of the bid.

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.

MODELS, PARTS, & COMPONENTS:

Only new models in current production, which are cataloged by the manufacturer and for which manufacturer's published literature and printed specifications are currently available, will be considered. Special options may be included only when recommended by the manufacturer of the unit and approved by the State.

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

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, which will be dealer installed.

Major components outsourced by the snow vehicle manufacturer shall be new models in current production, which are cataloged by the component manufacturer and for which manufacturer's published literature and printed specifications are currently available. This includes, but is not limited to engine(s), transmission(s), axle(s), etc. It does not include components specifically designed and manufactured for this snow vehicle application.

If inventory items are available from commercial supply, parts or equipment houses located in California or the Reno, Nevada area, they will not be required

to be in the supplier's or manufacturer's inventory. The supplier shall provide a list of commercial part numbers and a minimum of two (2) sources for each item.

A comprehensive parts list with reference to commercial or brand name, part number and descriptions, as applicable, may be required as condition for acceptance of a unit (e.g., fasteners, brackets, switches, bearings, lamps, etc.).

QUESTIONNAIRE:

The attached questionnaire shall be completely filled out and will become a part of each bid submitted. Any portion of the questionnaire which is not applicable to the equipment shall be shown as N/A (not applicable). Failure to submit a completed questionnaire shall result in rejection of your bid. (As per specification is not an acceptable answer).

INSPECTION:

This order will require a single-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 five (5) working days from the date of the inspection request by the supplier. Department of General services, Office of Fleet Administration, Inspector of Automotive Equipment at the supplier's place of business, prior to delivery It is the supplier's responsibility to contact the DGS Auto Inspector and State Parks at (916) 654-0727 for inspections.

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.

SAFETY:

The entire unit and accessories shall comply to the applicable provisions of the California Vehicle Code, the Safety Orders of the Division of Industrial Relations, and all Federal regulations in effect at the time of manufacture.

STATE OF CALIFORNIA
DEPARTMENT OF PARKS AND RECREATION
ADMINISTRATIVE REQUIREMENTS # 683-08-01AR

VEHICLE REGISTRATION DOCUMENTS 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 "Manufacturer's Statement of Origin" and original "Bill of Sale" on the vendor's letterhead may be supplied for each unit in lieu of a dealer's Report of Sale, if the supplier is not a registered California dealer.

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

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

FINAL MANUFACTURER'S I.D. PLATE REQUIRED:

A Final Manufacturer's Identification label shall be attached to the complete unit. The label shall be in compliance with the National Traffic and Motor Vehicle Safety Act, section 114 and Federal Code of Regulations 49.

DELIVERY:

Inspection, delivery, and final acceptance of all units on the Purchase Order shall be within 180 calendar days after the Purchase Order date.

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

Delivery to be made during normal workdays Monday through Friday except State holidays.

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 final payment has been made.

STATE OF CALIFORNIA
DEPARTMENT OF PARKS AND RECREATION
ADMINISTRATIVE REQUIREMENTS # 683-08-01AR

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 $80.00 per unit per work day.

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 $80.00 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.

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.

BOOKS AND MANUALS:

One (1) set of standard operator's manual, complete lubrication instructions, parts books and shop repair manuals (complete with electrical and hydraulic schematics) shall be supplied with each unit. On receipt of the first units, one (1) additional set of manuals shall be supplied for the State files. All books and manuals shall be in English.

TRAINING:

When training is requested, 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.

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 Mobile Equipment Chief (916) 870-9121

The training shall be provided at the Sugar Pine State Park Equipment Yard 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 Mobile Equipment Chief (916) 870-9121. 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 Mobile Equipment Chief.

WARRANTY, REPAIR/SERVICE & SPARE PARTS:

The machine shall be fully warranted by the successful bidder to be free from defects in materials and workmanship for a minimum of one year or 1000 hours from the date of acceptance. An additional two-year or 2000 hour warranty on splitter gearboxes, hydraulic pumps and motors, planetary gear boxes (including gaskets and seals) and main frame.
The supplier shall respond within 24 hours of notification.
Proved to be defective within the first three-months of the warranty period, the bidder shall replace the machine without cost to the State. Manufacturer's/Rep service and parts shall be available minimum of 10 years from final acceptance.

The supplier shall respond within 24 hours of any request for assistance or service.
The supplier or the manufacturer of the equipment being supplied shall guarantee that all replacement parts for the equipment shall be delivered to the State within 72 hours after the request is made (via telephone, fax, etc.) to the manufacturer, or supplier. If replacement parts will not be available because of shipping, the supplier shall AIR FREGHT the parts at his expense. This requirement shall take precedence over the parts availability requirement in the "In-shop" warranty agreement and be in effect for a period of five (5) years after the date the equipment is put into service by the State of California. Vendors

may be removed from the bid list for failure to meet the parts availability obligation.

One (1) complete set of part #'s 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.

Vendor/Manufacture shall provide a list of all factory-installed filters, filter numbers and the type of coolant installed in the equipment.

Equipment manufactures shall provide a list of factory fill lubrication products and corresponding American Petroleum Institute (API) certification, National Lubricating Grease Institute (NLGI) grade rating and International Standards Organization (ISO) classification. This information will allow the Division of Equipment to cross-reference the re-manufactured lubrication products on State Contract used in new equipment. If any of the States Lubrication Products are unacceptable, the manufacturer will have to provide information where they fail to meet specification. If special lubrication products are required, then two manufacturers of the lubricant will have to be supplied.

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 .

CHANGE ORDERS:

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

The State reserves the right to purchase an additional unit within 90 days after the purchase order date.

STATE OF CALIFORNIA DEPARTMENT OF PARKS AND RECREATION

SPECIFICATION NUMBER: 683-08-01 (Revised: 03/10/2009)

SPECIFICATION FOR: SNOW VEHICLE, 8-PASSENGER/CARGO

PURCHASE ESTIMATE NUMBER: PE08K01

It is the intent of this specification to describe the requirements for a track type eight (8) passenger (including driver) /utility snow vehicle with a front mounted 6-way (or All-Way/12-Way) snowplow.

Size dimensions and specified equipment may vary a nominal amount in accordance with industry standards. The acceptable variance shall be determined and approved by California State Parks, Mobile Equipment Warehouse 916-870-9121

TECHNICAL SPECIFICATIONS

1. WEIGHT: The operating weight of the unit including the plow shall not be less than 8,400 pounds. The unit shall have a minimum payload capacity of 2,200 pounds with the plow installed.

2. ENGINE: The snow vehicle shall be equipped with a single diesel engine, four (4) cycle, turbo charged and liquid cooled, rated for continuous duty at a minimum of 140, SAE1349 NET BRAKE horsepower, at the flywheel, for propelling the chassis and operating the snow plow.

   The engine shall be certified or accepted for this application for sale and use in California by the California Air Resources Board at all ratings in compliance to the requirements of this specification. The engine must meet Tier III Emission Requirements. This certification shall be provided with the bid.

   The engine shall be a current production unit, approved for this application by the engine manufacturer as of the date of the bid opening. The bidder shall provide evidence of approval with the bid.

   The horsepower and torque ratings will be determined from the engine manufacturer's certified, RPM, horsepower and torque curves. If the certified horsepower and torque ratings are net, then a list of the accessories that were on the engine when certified shall be supplied. These certified curves shall be submitted with the bid.

   The 140 horsepower engine rating shall be for a continuous duty rating. Continuous duty for the State is as follows:

1. Operates at full capacity for four (4) hours.

2. Idle for ten (10) minutes.

3. Repeat 1 and 2 for a total of twelve (12) hour's operation at full capacity.

4. Shut down engine to check fluid levels and fill fuel tank, then repeat the cycle.

The manufacturer's capacity rating (torque) for associated components, such as transmission, drop boxes, axles, drive lines, etc., shall be submitted with the bid.

The engine shall be equipped with the following:

a. Ether cold weather starting aid with cab mounted controls. The electric cab mounted control shall meter one (1) ether injection per cranking cycle. Alternate cold starting aid, as recommended or approved by the engine manufacturer, may be acceptable.

b. Replaceable, full-flow, element type oil filter.

c. An air cleaner system of the correct capacity recommended by the filter manufacturer and engine manufacturer to match the demand of the engine. There shall be a air restriction warning light that is triggered by the engines computer.

d.. The ignition shall be key only.

e. The exhaust system shall be designed and installed such that when the snow vehicle is operated in high snow embankment conditions (four (4) feet or higher), the exhaust will be directed up and away (to the rear) from the operator's cab. If the exhaust discharge is vertical, a rain cap shall be installed.

The engine shall be protected form freezing with permanent type anti-freeze with a protection value to -50 degrees F. Engine to have coolant recovery system.

f. 110 VAC block heater. The electrical plug-in shall be easily accessible.

g. The engine shall have an audible and visible warning for high coolant temperature, low coolant level, and low oil pressure, as applicable for liquid cooled engines.

h. The engine will be equipped with the proper sized fuel filters with built in water separator(s).

All gauges and controls shall be marked and identified for function. The markings shall be explicit, legible, and permanent. International symbols may be used.

Any precautionary signs shall be similarly marked.

All gauges and controls shall be suitably lighted with an infinitely variable brightness control from full bright to off.

The following gauges or instrumentation shall be furnished and installed in or on the dash and be easily visible to the operator.

i. Hourmeter, Hobbs Model 80010, or comparable.

j. Voltmeter.

k. Fuel gauge.

l. Oil pressure gauge.

m. Tachometer: The tachometer supplied shall be an electronic type tachometer. The tachometer shall be red lined at maximum engine speed as recommended by the manufacturer. The tachometer shall be mounted close to the center of the dash.

n. Coolant Temperature gauge. (Redlined at maximum operating temperature).

o. Odometer (in miles).

p. Speedometer (in miles per hour).

q. Hydraulic temperature warning light.

r. Inclinometer

s. The engine shall be equipped with an electric starting system.

3. COOLING SYSTEM: The engine shall be equipped with the maximum capacity radiator available from the manufacturer. The radiator shall be equipped with a de-aeration system. A cooling system conditioner shall be installed to filter the water, and control corrosive action. The cooling system shall be adequate when the unit is operating under full load at 60° F ambient temperature with all hoods, doors, etc., closed.

The radiator shall be equipped with a low coolant level warning light in case the cooling liquid becomes low (Ref. Robertshaw Model 613 NLU). This warning light shall be mounted in the dashboard and in view of the driver.

4. TRANSMISSION: The unit may be equipped with either a hydrostatic drive transmission or automatic transmission such that any gear can be engaged or disengaged without the use of a manually operated clutch. The automatic transmission shall have a minimum of four (4) speeds forward and one (1) speed in reverse. The

hydrostatic drive shall be infinitely variable. The unit shall have a minimum road speed of 13.5 mph on level ground at or above 7000 ft. elevation.

5. HYDRAULICS: The hydraulic system shall incorporate full flow filtration, utilizing a replaceable element, spin-on type filter(s) with filtering capability of 25 microns or less. The hydraulic pump shall be of sufficient capacity to permit the simultaneous operation of at least two controls. All hydraulic hoses, lines, and fittings shall be SAE compatible. All hoses shall be the high pressure, crimp type and shall be properly protected and routed to eliminate failure due to abrasion, cutting, kinking, etc. Black pipe, galvanized pipe and pipe fittings shall not be used in the hydraulic system. Fittings and valves shall be of the proper size to match the hydraulic line to which they are attached. Compression fittings shall not be used. All threads shall be North American or metric type threads. Threads shall be of one type and not be mixed, British, etc. threads are not acceptable.

6 AXLE/SPRING/TRACK: The unit shall be equipped with axles, (springs or torsion bars), front and rear, of ample capacity to support the vehicle under the most adverse use or operating conditions anticipated. Tires shall be foam filled.

The overall width, outside to outside of the tracks, shall not exceed 120 inches.

The unit shall be equipped with either:

a) Four (4) independent drive/steer tracks. The track tread shall be minimum 26 inches wide. The track shall be an all rubber design with heavy-duty snow grouser bars and capable of operation on all types of terrain. (Mud, Snow, Pavement, Etc.)

b) Two (2) independent drive/steer tracks. The track tread shall be minimum 30 inches wide. The track shall be of all rubber design.

The ground bearing pressure (PSI) shall be between 1.56 PSI to 0.71 PSI. (May vary a nominal amount, variation will require agency approval).

The track adjuster shall be hydraulic or mechanical and be easily accessible.

7. BRAKES: All units (including units with the hydrostatic drive) shall be equipped with service brakes and parking brakes. The machine shall have multi disc brake system. The service brakes shall control and hold, without track rotation, headed up or down grade with the plow in the up mode, on a 30% grade. The parking brakes shall be adequate to hold the unit either up or down grade with the plow in the up mode without track rotation on a 30% grade. For test conditions, the surface of the grade shall be paved and free from snow, ice, and loose material.

If air brakes are furnished, an air drier must be installed. (Ref. B/W Model AD-4 Air Drier or comparable).

8. STEERING: The steering shall be power assisted and capable of either:

   a) Four (4) track (articulated) steering, accomplished with a steering wheel. The wall-to-wall turn diameter shall not exceed 56 feet on dry, level terrain, less plow, with no slippage.

   b) Two (2) track hydrostatic with independent cable control and with zero turning radius.

9. CAB: The cab shall be all metal and be equipped with an approved safety glass windshield, opening side door windows. The cab shall be rubber mounted and shall have hydraulic or electric assisted lift. The cab shall have seating for a minimum of eight (8) passengers, including the operator. The operator's seat shall be a fully adjustable bucket seat with a three-inch seat belt, the front passenger seat shall be similar in appearance to the operator's seat. The passenger seats will, have fold down backs and be the easily removable bench type. Seat belts for all passengers will be installed. Both the passenger and operator cab shall be roll over protection certified.

   The passenger area shall have a boot from the operators cab to the passenger cab. Cab shall have closable windows. If a boot is not available a radio system with headsets for each passenger shall be provided.

   Doors shall be provided on the operator (front) and passenger (rear) compartments. All doors shall be lockable and keyed alike.

   The front windshield (s) shall be full width to provide maximum forward visibility. A rear window shall be provided; each door shall have a window. All glass shall be safety glass.

   The following items, supplementing, if necessary, those items already cataloged as standard cab equipment, shall be furnished and installed.

   a. Dual visors.

   b. Windshield and rear window defogger.

   c. Cab heater (heat shall be directed to the floor area as well as the mid-area) shall be capable of maintaining a cab temperature of 65°F in all operating conditions.

   d. 12-Volt accessory power outlet. (center cab location)

      Two 12-volt two-way radio power source located in the top of cab.

   e. Right and left side rearview mirrors shall be electrically heated, and mounted in a stainless steel frame. The mounting brackets shall be fully adjustable.

f. Backup alarm.

g. Dual windshield wipers and rear window wiper with independent controls.

h. Dual windshield washers.

i. Electric horns.

k. Steps and grab handles to safely enter the cab.

l. Dome lights, activated by door switch and an independent control.

m. Floormats, headliner and cab insulation.

n. Roof mounted amber rotation beacon visible from the front and rear of the tractor shall be mounted.

o. Tilt and telescope steering wheel. Tilting non-telescoping steering wheel shall also be acceptable.

p. Radio: AM/FM stereo and two speakers, one on each side of the cab.

q. Spotlight, rotateable, shall be mounted on the cab. Remote controls will be accessible from either the operator's or front passenger position.

r. Locks for all exterior compartments and fuel filler.

s. The color of the machine shall be red, yellow, or orange.

t. Lights and mirrors shall be protected with brush guards.

u. Working lights shall be mounted on the cab, four facing forward quartz halogen driving lamps (two flood & two extended range) and four-quartz halogen driving lamps facing to the rear. (tow spot & two flood)

v. Master electrical-cut off switch.

10. CARGO STORAGE: Cargo storage capacity shall be 450 lbs minimum. The unit shall have a cargo storage rack installed above the 8 passenger area with a ladder for access. The latter shall be installed to the rear of the unit with hand rails. The size of the rack shall be the same length of the eight passenger cab and the same width. If roof rack is not available, U-shaped wrap around cargo deck around engine compartment shall be acceptable (nominal size: 100" W X 82" L X 23" D). Other size shall require Department of Parks approval.

11. FUEL CAPACITY: The unit shall have a minimum 34-gallon capacity fuel tank.

12. PLOW: The plow shall be the width of the unit, straight blade, 6-way or All-Way/12-Way, fully hydraulically operated, and be capable of being angled 18 degrees to the left and 18 degrees to the right. A renewable cutting edge shall be furnished on the plow. The blade control shall be multi-function joystick and located to the right of the operator.

13. BATTERIES: Dual maintenance free batteries shall be furnished. (min.790 CCA.) When standard equipment is of higher capacity, the higher capacity shall be provided.

14. CONTROLS: All plow controls, drive controls, engine controls, and steering controls shall be located in the cab with operator access while in his normal operating position. All controls and switches shall be permanently labeled and illuminated suitable for nighttime operation.

    The controls shall be operational in established conventional (U.S.A.) mode, or in logical operation mode where convention does not exist (e.g. lever up to raise plow, lever right to rotate plow to the right).

15. PERFORMANCE: The unit shall meet the listed performance requirements when full loaded to capacity (GVWR) on fresh fallen show (minimum 12 inches) and at 7000 feet elevation:

    a. Ascend 30° slope.

    b. Descend 30° slope, under engine power.

    c. Turn 180° within 50% of its dry turn diameter on level terrain.

16. ELECTRICAL EQUIPMENT: Minimum electrical equipment shall comply with all Federal Motor Vehicle Safety Standards and State of California Department of Motor Vehicle regulations. The tail, stop, and directional signal lamps may be in combination, and the wires to these lamps shall be in a loom or conduit. A minimum 100-amp alternator with a matching regulator shall be furnished. The battery system shall be made up of not less than two (2) Group 31 12-volt maintenance free batteries (Ref. Delco's Freedom or comparable). The system rating shall be not less than 790 CCA (cold cranking amps) at 0° F. and a reserve capacity of not less than 100 Ah.. Ratings are as established by BCI (Battery Council International) and SAE. Side terminal batteries are not acceptable.

    All lights and accessory switches shall be the circuit breaker rocker type or rocker switches with circuit breakers adjacent to the switches. All light switches and accessory switches shall be identified and backlighted for night use. All switches and circuit breakers may be mounted in an overhead console with easy access to the operator.

17. 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 **(300 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).**

18. 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 both inside and outside the operator's cab. In no event shall the noise emitted be greater than 90 dB(A) inside the cab.

    The sound level reading will be taken with the equipment unit stationary after the unit has been warmed up for 15 minutes. The reading will be taken with the engine operating at full governed RPM and as applicable, with both side doors or one (1) door and window on opposite side open, one (1) man in the cab with the meter near center of cab about two (2) feet below the roof and twelve inches from the operator's ear. All non-propulsion operating controls may be randomly actuated throughout the test.

19. MATERIAL: Construction shall be of all new material free of rust and any defects. All components in the assembly shall be fabricated from a single piece of material. Material which is joined by welding or other means to form a single piece of stock is not acceptable. The finished product shall be free of dents and warpage. The use of any type of body filler is unacceptable. All bolts shall be Grade 5 or better and conform to SAE and ASTM standards. Bolt lengths shall be such that a minimum of two threads shall extend beyond the nut. Nuts shall be the locking type. Nuts and washers shall be compatible with the bolt(s) to which they are attached, as recommended by the fastener manufacturer and in accordance with SAE and ASTM standards. If requested, the supplier shall submit proof of fastener strengths.

20. METAL SHAPING: All breaks shall be free of cracks. Radii shall be at least twice the thickness of the material or in accordance with the requirements established by ASTM for the particular material being formed, whichever is greater. All holes shall be round, of the proper dimension, perpendicular to the material they are produced in, and finished smooth. Oblong holes or holes drilled, bored, etc. at angles are not acceptable. Holes and slots shall be drilled, punched, saw cut, plasma cut, or milled; torch cut is unacceptable. Sharp corners on all material shall be radiused to prevent personnel injury.

21 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 Parks and Recreation Mobile Equipment Office. Welds which have been ground without approval shall be subject to complete re-welding upon request, at no additional cost to the State.

All assembly dimensions and tolerances on drawings apply after welding. Excessive warpage of assembled parts is not acceptable. Weld symbols on 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.

22. MISCELLANEOUS:

a. The machine offered shall, as a minimum, be in accordance with the requirements of this specification. Features which are not specifically prohibited by the specification but which are part of the manufacture's standard commercial product shall be included in the machine being furnished. A standard commercial product is a product, which has been sold or is being currently offered for sale on the commercial marked through advertisements or manufacture's catalogs, of brochures, and represents the latest product model

b. Wiring shall be identified to match the electrical schematic. (Do not paint over any wiring identification).

c A lighted rear license plate bracket shall be provided.

d. Front and rear mounted tow hooks.

e. Rear swivel pintle hook and 2" ball hitch.

Note: Any items installed by the supplier shall be completed in such a manner to provide a functional, weatherproof end product.

Note: Not withstanding drawings or specification requirements, any items installed by the supplier shall be braced, internally and/or externally, to provide a solid, rigid, end product installation.

Note: All items installed by the supplier shall be accessible for servicing, repairs or replacement, without the removal of any major component.

QUESTIONNAIRE

Make: Piston Bully ; Model: 100 utility ; Year: 2009

1. **WEIGHT:** Operating weight of the unit.: 8,400 lbs.

   Payload Capacity : 2,205 lbs.

   Gross Vehicle Weight (GVWR, pounds): 11,464

2. **ENGINE:** Make: Mercedes-Benz ; Model: OM 904 LA 4 cylinder

   Gross hp: 177 @ 2500 RPM

   Max. Torque (lb. ft.): 498 @ 1,200 RPM

   Engine meets Tier III Requirements? Yes: X ; No: _____

3. **ELECTRICAL EQUIPMENT:**

   Alternator: Voltage: 280 Volts

   Amperes Max. Output: 100 Amps

   Batteries: Cold Cranking Amp, Rating at 0° F: ~~390~~ 395

   Reserve capacity of 100 AH minutes.

4. **AIR CLEANER:** Make: Mann ; Type: C 20 325/2

5. **TRANSMISSION:** Type: Hydrostatic

   Number Reserve Speeds: 1

   Number Forward Speeds: 1

   Top Speed High Gear (m.p.h.): 16 MPH

6. **HYDRAULIC:** Filtering Capacity: 10 Microns

7. **AXLE/SPRING/TRACK:** Overall Track Width (Outside to Outside): 98.5 in
   Track Tread width: 33 in
   Ground Pressure: .71 in
   Track Type: All Rubber, Yes: X ; No: _____

8. **BRAKES:** Type: Aux Multi Disc Spring Packed

Parking Brake (Describe): through the Hydrostatic System

9. **CAB:** Total Seating Capacity: 10

Width (in.): 76 : Length (in.): 153

Number of passenger (including driver): 10

Boot provided between driver to passenger cab area: Yes: X ; No:

Radio system headsets for each operator provided in lieu of boot: Yes: ___ ; No: X

Driver and passenger Cab ROPS certified: Yes: X ; No:

10. **CARGO DECK SIZE:** Width (In.): Made to customers Spec. ; Length (in.): —

Cargo Storage rack above passenger cab area provided: Yes: X ; No:

Or Wrap around Cargo deck provided: Yes: ____ No: X

11. **MISCELLANEOUS:**

Back Alarm: Make: Pistem Bully Model: N/A

12. **TURNING RADIUS:** Turning radius (Wall to wall less Plow, Ft.): 0 Degrees

13. **PLOW:** Make: Kassbohrer Model: 2.7m

Type: All way Blade (6-way or All-way or 12-Way)

Width (in.): 8 Length (in.): 10

Angle (left): N/A Angle (right): N/A Blade is Fully Articulating

Complete operating weight (lbs.): 8,400 Including Blade and cabin

14. **PERFORMANCE:** (Under full load capacity on min. 12" fresh fallen snow)

Ascend-ability: 40 degree slope

Descend-ability: (under engine power): 40 degree slope

15. **SOUND LEVEL:** 55 dBA

LIST ANY ADDITIONAL INFORMATION OR EXCEPTIONS TO THE SPECIFICATIONS BELOW:

NAME OF FIRM: Kassbohrer All Terrain Vehicles, Inc

BY: Samuel W. Trafton

DATE: 4-2-09

PHONE NO: 775-857-5000 ext 301