

PURCHASE DESCRIPTION

FOR

SLED

SELF PROPELLED

**2 PAX, HEAVY DUTY
For 5 Wing Goose Bay**

Nov 2013

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1. INSTRUCTIONS

1.1 Scope - This document covers qty thirty (30), sleds, self propelled, 2 passenger, heavy duty, utility. The purpose of these vehicles is to fill anticipated deficiencies in quantities resulting from increased training requirements in Goose Bay.

1.2 Instructions - The following instructions apply to this Purchase Description:

- a. Requirements, which are identified by the word “*shall*”, are mandatory. Deviations will not be permitted;
- b. Requirements identified by “*shall(E)*” are mandatory. The Technical Authority will consider substitutes/alternatives for acceptance as an Equivalent;
- c. Requirements identified with a “*will*” define actions to be performed by Canada and require no action/obligation on the Contractor’s part;
- d. Where “*shall*”, “*shall(E)*”, or “*will*” are not used, the information provided is for guidance only;
- e. In this document “provided” shall mean “provided and installed”;
- f. Where technical certification is required, a copy of the certification or an acceptable proof of compliance shall be provided upon request;
- g. Metric measurements shall be used to define the requirement. Other measurements are for reference only and may not be exact conversions; and
- h. Dimensions stated as nominal shall be treated as approximate dimensions. Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, but which differ from the actual dimensions.

1.3 Definitions - The following definitions apply to the interpretation of this Purchase Description:

- a. “Technical Authority” - The government official responsible for technical content of this requirement;
- b. “Equivalent” - A standard, means, or component type, which has been accepted by the Technical Authority as meeting the specified requirements for form, fit, function and performance; and

- c. "Proof of Compliance" - A document such as a brochure, a third party test report, a report generated by third party software, or a certificate of attestation signed by a senior representative of the Original Equipment Manufacturer (such as a certified engineer) indicating the performance and/or feature specified.

2. APPLICABLE DOCUMENTS

2.1 Government Furnished Documents - NOT APPLICABLE

2.2 Other Publications - The following documents form part of this Purchase Description. Web sites for the organization are given when available. Effective documents are those in effect on date of manufacture. Sources are as shown:

- a. SAE Handbook

Society of Automotive Engineers Inc.
400 Commonwealth Dr.,
Warrendale, PA, 15096
<http://www.sae.org>

3. REQUIREMENTS

3.1 Standard Design – The vehicle/equipment *shall*:

- a. Be the latest model from a manufacturer who has demonstrated acceptability by manufacturing and selling this type and size class of vehicle;
- b. Have engineering certification available, upon demand, for this application from the original manufacturer of major equipment systems and assemblies;
- c. Conform to all applicable laws, regulations and industrial standards governing manufacture, safety, noise levels and pollution in effect in Canada at the time of manufacture; and
- d. Have system and component capacities not greater than their published ratings (i.e. product or component brochures) or accompanied by proof of compliance.

3.2 Operating Conditions – The vehicle/equipment, under all load conditions, *shall* operate safely and efficiently as follows without appreciable degradation in reliability and maintainability:

- a. **Towing capacity** – The vehicle/equipment *shall* be capable of being operated while towing a minimum load of 200 kg;

- b. **Weather** - The vehicle/equipment *shall* operate under the extremes of weather found in Canada in temperatures ranging from -40 to 10° C (-40 to 50° F);
- c. **Terrain** - The vehicle/equipment *shall* be capable of being operated off-road (e.g. construction sites, open fields and snow covered trails). Terrain conditions *shall* include winter operations on deep snow and ice.

3.3 Safety Regulations – The vehicle should comply with applicable Canadian Federal safety regulations.

3.4 Human Engineering and Safety – The following applies:

- a. All systems and controls should be safe and easy to use by a full range of operators (5th percentile female to 95th percentile male), in general accordance with SAE J833 (ISO 3411) and SAE J898 (ISO 6682);
- b. Safety devices such as warning plates, instruction plates, non-slip surfaces, grab handles and heat shields should be provided, where required, to ensure safe operation.

3.5 Vehicle Delivery Condition – The vehicle *shall* be delivered to destination in a fully operational condition (serviced and adjusted) and both the interior and exterior *shall* be cleaned. If the vehicle requires assembly at destination, the Contractor *shall* be responsible for all manpower and equipment to perform assembly. The consignee will provide the area required for assembly. For shipment verification, all items such as wheel wrenches, jacks, and all other tools, equipment and accessories, which are shipped loose with the equipment, *shall* be listed on the shipping certificate or to an attached packing note.

3.6 Dimensions – The following *shall* be provided:

- a. A minimum rear suspension travel of 356 mm;
- b. A minimum track length of 3968 mm;
- c. A minimum track width of 600 mm.
- d. Track profile height minimum 31.8 mm (1.25 in)

4. CHASSIS AND POWER TRAIN SYSTEMS

4.1 Engine Systems – The following applies:

- a. The engine displacement *shall* be at least 594 cc;

- b. The engine *shall* be liquid cooled including air radiator with fan;
- c. The engine *shall* have a minimum of two (2) cylinders;
- d. The engine *shall* be a 2-stroke fuel electronic direct injected engine;
- e. Exhaust pipe and spark arresting muffler *shall* be provided;
- f. Fuel type *shall* be unleaded gasoline.

4.2 Fuel Tank – The following applies:

- a. A minimum 45 liters fuel tank capacity *shall* be provided;
Fuel tank should indicate the use of gasoline fuel;
- b. Fuel gauge should show level of fuel in the tank.

4.3 Transmission – the following applies:

- a. A minimum of one Hi speed forward, one low speed forward and one reverse gear *shall* be provided.

4.4 Brakes – The following *shall* be provided:

- a. Hydraulic disc brake;
- b. A parking brake.

5. BODY SYSTEMS

5.1 Body Features – The following *shall* be provided:

- a. Rear cargo box/rack behind the seat;
- b. Min 9.8 inches wide skis which includes the plastic liners and carbide runners
- c. Front wrap around bumper
- d. 2013 or 2014 Model
- e. Articulating rear suspension

5.2 Seating and Driver/Passenger Compartment – The following *shall* be provided:

- a. A seat in a 2-up style for two (2) adults dressed in heavy clothing;
- b. A windshield min 23 inches tall with large mirrors.
- c. A backrest for the passenger;
- d. Heated throttle lever and grips.

5.3 Controls and Instruments – The following applies:

- a. Electrical starting *shall* be provided;
- b. Speedometer *shall* be provided;
- c. A tachometer *shall* be provided;
- d. Fuel gauge *shall(E)* be provided;
- e. Gear indicator *shall* be provided. The gear indicator *shall* be, as a minimum, markings on and/or a decal next to the gear selector lever; and
- f. A tether switch to turn off the engine and/or to stop the vehicle in the event that the operator falls off during operation *shall* be provided.

6. ELECTRICAL SYSTEMS – The following *shall* be provided:

- a. Heavy-duty maintenance-free battery;
- b. A 12V outlet in the driver/passenger compartment.

7. MISCELLANEOUS

7.1 Special Equipment – The following *shall* be provided:

- a. Wrap around front bumper;
- b. A rear mounted hinged hitch plate;
- c. Mountain strap;
- d. Spare Spark plugs, qty 60; and
- e. Spare belts, qty 30.

7.2 Colour – The following applies:

- a. The colour of external surfaces is as per Manufacturer's standard colour.

7.3 Tools – The following applies:

- a. A basic tool kit *shall(E)* be provided with each vehicle;
- b. The tools should be stored in a bag and should include, as a minimum, tools specific to the vehicle for roadside maintenance.

7.4 Identification Plate – The following information *shall* be provided as a minimum, permanently marked and in a conspicuous and protected location:

- Manufacturer;
- Model;
- Model year;
- Serial number;

8. INTEGRATED LOGISTIC SUPPORT – The Contractor is required to ensure that spare parts required to properly maintain and repair completed vehicles are available for purchase for a period of 10 years.

8.1 Documentation with each vehicle – The Contractor *shall* provide the following documents with each vehicle:

- a. **Vehicle Manuals** – The vehicle *shall* be provided with all manuals required for the safe operation, maintenance and repair of the vehicles and all sub-systems, attachments, components and accessories included in the vehicle supplied. The following manuals *shall* be provided:
 - i. **Operator's Manuals** – Operator's Manuals *shall* be provided in a bilingual format or as 2 manuals in a single binder (one English, one French). Operators' Manual(s) *shall* be supplied in paper format. The Operator's Manual *shall* include:
 - Instructions for the safe operation of the vehicle;
 - Daily operator maintenance instructions/checks (including lubrication);
 - Safety warnings: and
 - Hand signals (as necessary).

- ii. **Parts Manuals** – The Parts Manuals *shall* be in English (French translation is desirable). The Parts Manuals *shall* include:
- Illustrations showing all components of the vehicle including equipment and accessories from other manufacturers that is supplied for the requirements of the contract. The illustrations *shall* have numbers for the itemization of the parts;
 - A listing for all itemized manufacturer's parts showing the manufacturer's part number of the illustration, the part name and a brief description of the item; and
 - Cross reference relating the manufacturer part number to the correct figure and item number.
- iii. **Maintenance (Shop Repair) Manuals** - The Maintenance (Shop Repair) Manual *shall* be in English (French translation is desirable). The Maintenance (Shop Repair) Manuals *shall* include:
- A trouble shooting guide, showing the steps and tests required to determine the exact cause of a problem and an explanation of what steps would be required to correct a problem;
 - A listing of the necessary tolerances, torque levels, fluid volumes required and a section listing any special tools (including item part numbers);
 - Information on the order of disassembly and assembly of the systems and components of the vehicle; and
 - Complete electrical diagrams.
- iv. **Manuals on CD/DVD-ROM** - A copy of the manuals on CD/DVD-ROM *shall* be provided, if available. This *shall* include all the manuals provided in clauses i, ii, and iii above. For usability, CD/DVD-ROM *shall not* require password and/or Internet connection to be accessed. Operator's manuals *shall* also be supplied in paper format.
- v. **Sample Manuals** – NOT APPLICABLE.

Notes: In the event that the manuals are not available at time of shipment, provisional manuals *shall* accompany the vehicle/equipment. Provisional manuals *shall* be clearly identified with the word "PROVISIONAL". Provisional manuals *shall* be replaced with approved manuals to all shipping locations within 30 calendar days of receipt of approval of manuals.

- b. **Warranty Letter** – A paper copy of the completed bilingual Warranty Letter with each vehicle shipped in the approved format. The Contractor *shall* send a copy of the Warranty Letter, in electronic format, to the Technical Authority for each vehicle, at shipment. Designated warranty providers *shall* honour the warranty letter.

8.2 Documentation/Items to the Technical Authority – The Contractor *shall* provide the following documents to the Technical Authority:

- a. **Data Summary** – NOT APPLICABLE;
- b. **Photographs** – NOT APPLICABLE;
- c. **Preventive Maintenance Replacement Parts Kit List** - A list of parts needed to perform preventive maintenance on one vehicle for a 6-month period or equivalent amount of hours. A complete change of all filters and filter elements *shall* be included. The list will be reviewed, amended (if required) and approved by the Technical Authority. The list *shall* include the following elements:
 - i. Part description;
 - ii. Original Equipment Manufacturer Part number;
 - iii. Suggested quantity; and
 - iv. Unit cost.
- d. **List of Special Tools** - The Contractor *shall* provide a list detailing the special tools required for the vehicle that would not be included in a mechanics toolbox. This would include items such as special wrenches, or extraction devices and special diagnostic tools;
- e. **Safety Recalls and Servicing Data** – The following information is required to be provided to all customer locations, on a continuing basis, throughout the life expectancy of the vehicle or for no less than 10 years:
 - i. Safety Recalls; and
 - ii. Manufacturers technical Service Bulletins, or equivalent.

NOTE: This service can be made available as an Internet Service.

- f. Brochures** – Up-to-date brochures and other applicable information for each make/model/configuration *shall* be supplied to the Technical Authority.

TECHNICAL INFORMATION QUESTIONNAIRE

(To be typed)

This questionnaire covers technical information, which *shall* be provided for evaluation of the vehicle/equipment offered. The questionnaire *shall* be filled in, or at least signed, by an authorized technical representative

The Contractor *shall* provide to the Technical Authority bilingual technical documentation with pictures of the vehicle/equipment to support the claims made in the Technical Information Questionnaire. This documentation may be in the form of a brochure / technical specifications sheet of the product/equipment offered.

Where a company is unsure if their vehicle / equipment / product / system complies, they *shall* provide a complete explanation.

NOTE: IT IS THE BIDDERS RESPONSIBILITY TO CLARIFY OUTSTANDING TECHNICAL ISSUES, BY WRITTEN REQUEST, TO THE CONTRACTING AUTHORITY PRIOR TO BID SUBMISSION.

Company name: _____

Name of the Authorized Representative: _____

Title of the Authorized Representative: _____

Signature of the Authorized Representative: _____

Manufacturer's name: _____

3. REQUIREMENTS

3.1 Standard Design – Complies?

Yes ☐ No ☐

- a. Make: _____
Model: _____
Model Year: _____
Length of time this model in production/sold commercially _____ years

- b. Are system/component used within published capacities?

Yes ☐ No ☐

Comments: _____

3.2 Operating Conditions – the equipment, under all load conditions, *shall* operate safely and efficiently as follows without appreciable degradation in reliability and maintainability:

- a. **Towing capacity** – A minimum load of 200 kg.

Yes ☐ No ☐

- b. **Weather** - Temperatures ranging from -40 to 10° C.

Yes ☐ No ☐

- c. **Terrain** – As described.

Yes ☐ No ☐

Comments: _____

3.3 Safety Regulations – Complies?

Yes ☐ No ☐

Comments: _____

3.4 Human Engineering and Safety – Complies?

Yes ☐ No ☐

Comments: _____

3.5 Vehicle Delivery Condition – Complies?

Yes ☐ No ☐

Comments: _____

3.6 Dimensions – The following *shall* be provided:

- a. Vehicle has a minimum rear suspension travel of 356 mm. Yes ☐ No ☐
- b. Vehicle has a minimum track length of 3968 mm. Yes ☐ No ☐
- c. Vehicle has a minimum track width of 600 mm. Yes ☐ No ☐
- d. Track profile height minimum 31.8 mm (1.25 in) Yes ☐ No ☐

Comments: _____

4. CHASSIS AND POWER TRAIN SYSTEMS

4.1 Engine Systems – The following applies:

- a. Engine displacement is at least 594 cc. Yes ☐ No ☐
- b. Engine is liquid cooled including air radiator with fan Yes ☐ No ☐
- c. Engine has at least two (2) cylinders. Yes ☐ No ☐
- d. Engine is a 2-stroke engine fuel electronic direct injected engine Yes ☐ No ☐
- e. Exhaust pipe and a spark arresting muffler are provided. Yes ☐ No ☐
- f. Engine fuel type is unleaded gasoline. Yes ☐ No ☐

Comments: _____

4.2 Fuel Tank - The following applies:

- a. Fuel tank has a minimum capacity of 45 liters. Yes ☐ No ☐
- b. Fuel tank and/or fuel tank cap indicated the fuel level. Yes ☐ No ☐

Comments: _____

4.3 Transmission – The following *shall* be provided:

- a. Transmission has a minimum of one forward and one reverse gear. Yes ☐ No ☐

Comments: _____

4.4 Brakes – The following *shall* be provided:

- a. Vehicle has hydraulic disc brakes. Yes ☐ No ☐

- b. Vehicle is equipped with a parking brake. Yes ☐ No ☐

Comments: _____

5. BODY SYSTEMS

5.1 Body Features – The following *shall* be provided:

- a. Rear cargo box/rack behind the seat. Yes ☐ No ☐

- b. Min 9.8 inches wide skis which includes the plastic liners and carbide runners. Yes ☐ No ☐

- c. Front wrap around bumper Yes ☐ No ☐

- d. 2013 or 2014 Model Yes ☐ No ☐

- e. Articulating rear suspension Yes ☐ No ☐

Comments: _____

5.2 Seating and Driver/Passenger Compartment - The following *shall* be provided:

- a. A seat in a 2-up style for two (2) adults dressed in heavy clothing Yes ☐ No ☐
- b. A windshield min 23 inches tall with large mirrors. Yes ☐ No ☐
- c. A backrest for the passenger. Yes ☐ No ☐
- d. Heated throttle lever and grips. Yes ☐ No ☐

Comments: _____

5.3 Controls and Instruments – The following applies:

- a. Electrical starting with manual recoil back-up. Yes ☐ No ☐
- b. Speedometer. Yes ☐ No ☐
- c. Tachometer. Yes ☐ No ☐
- d. Fuel gauge. Yes ☐ No ☐
- e. Gear indicator. Yes ☐ No ☐
- f. Tether switch as described. Yes ☐ No ☐

Comments: _____

6. ELECTRICAL SYSTEMS – The following *shall* be provided:

- a. Heavy-duty maintenance-free battery. Yes ☐ No ☐
- b. 12V outlet in the driver/passenger compartment. Yes ☐ No ☐

Comments: _____

7. MISCELLANEOUS

7.1 Special Equipment – The following *shall* be provided:

- a. Wrap around front bumper Yes ☐ No ☐
- b. A rear mounted hinged hitch plate. Yes ☐ No ☐
- c. Mountain strap Yes ☐ No ☐
- d. Spare Spark plugs, qty 60 Yes ☐ No ☐
- e. Spare Belts, qty 30 Yes ☐ No ☐
Comments: _____

7.2 Colour – Complies? Yes ☐ No ☐

Comments: _____

7.3 Tools – The following *shall(E)* be provided:

- a. A basic tool kit with each vehicle. Yes ☐ No ☐
Comments: _____

7.4 Identification Plate – Complies? Yes ☐ No ☐

Comments: _____

8. INTEGRATED LOGISTIC SUPPORT

8.1 Documentation with each vehicle – Complies? Yes ☐ No ☐

Comments: _____

8.2 Documentation/Items to the Technical Authority – Complies? Yes ☐ No ☐

Comments: _____

