



NOTICE

This documentation has been reviewed by the **Technical Authority** and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'**Autorité technique** et ne contient pas de marchandises contrôlées.

ANNEX B – PURCHASE DESCRIPTION

The Canadian Forces Material Handling Equipment

Purchase Description (PD) for Rough Terrain, Diesel Engine Driven, 3-Wheel, Trailer-tail Transported Forklift Trucks

File # W8476-185871

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National Defence Headquarters
Major General George R. Pearkes Building
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K1A 0K2

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1. **SCOPE**

1.1 **Scope** - This Purchase Description defines the requirements for Rough Terrain, Diesel Engine Driven, 3-Wheel, Trailer-tail Transported Forklift Trucks

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

- a) Requirements, which are identified by the word “***must***”, are mandatory. Deviations will not be permitted;
- b) Requirements identified with a “will” define actions to be performed by Canada and require no action/obligation on the Contractor’s part;
- c) Where “***must***”, or “will” are not used, the information provided is for guidance only;
- d) Requirements identified by “***must***” or “***equivalent***” are mandatory. The ***Technical Authority*** will consider substitutes/alternatives for acceptance as a ***Technical Authority*** approved ***equivalent***;
- e) Where a standard is specified and the Contractor has offered an ***equivalent***, that equivalent standard ***must*** be supplied by the Contractor, at no cost to Canada, when requested by the ***Technical Authority***;
- f) Where technical certification is required, a copy of the certification or an ***equivalent must*** be provided by the Contractor upon request;
- g) Metric measurements ***must*** be used to define the requirement. Other measurements are for reference only and may not be exact conversions; and
- h) Dimensions stated as nominal ***must*** 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

1.3.1 “***Technical Authority***” - The government official is responsible for technical content of this requirement

1.3.2 “Provided” ***must*** means “provided and installed”; and

1.3.3 “***Equivalent***” - A standard, means, or component type, which has been approved by the ***Technical Authority*** as meeting the specified requirements for fit, form, function and performance; and

1.3.4 “***Bilingual***” – Official languages in French and English.

1.4 **Requirements Summary Table** - Vehicles covered by this Purchase Description are represented as Configurations. The following table indicates performance and features by Configuration:

			CONFIGURATION
CHARACTERISTIC	PARAGRAPH	UNITS	A
LIFT CAPACITY	3.4.2(a)	kg	2,495
		lbs	5,500
LOAD CENTRE	3.4.2(a)	mm	610
		in	24
LIFT HEIGHT	3.4.2(b)	mm	3,048
		in	120
OVERALL HEIGHT	3.4.2(c)	mm	2,667
		in	105
UNLADEN WEIGHT	3.4.3(b)	kg	2,722
		lbs	6,000
SIDE SHIFT	3.5.1(e)	mm	127
		in	5

2. APPLICABLE DOCUMENTS

2.1 Government Furnished Documents – NOT APPLICABLE

2.2 Other Publications – The following documents form part of this Purchase Description. Websites for the organization are given when available. Unless otherwise specified, effective documents are those in effect on the date of manufacture. Sources are as shown:

2.2.1 CAN/CSA Standards

CAN/CSA-B335-04 Safety Standard for Lift Trucks
CAN/CSA Z107.56-13 Measurement of Noise Exposure

Canadian Standards Association (CSA)
5060 Spectrum Way, Mississauga, Ontario, L4W 5N6
<http://www.csa.ca/Default.asp?language=English>

2.2.2 UL Standards

UL 558 Standard for Safety, Industrial Trucks, Internal Combustion Engine-Powered

Underwriters' Laboratories of Canada, 7 Crouse Road,
Scarborough, Ontario, M1R 3A9
<http://www.ulc.ca/>

2.2.3 ANSI Standard

ANSI/ITSDF B56.6 Standard for Safety for Rough Terrain Forklift Trucks
Industrial Truck Standards Development Foundation
1750 K Street NW, Suite 460, Washington DC 20009, USA
<http://www.itsdf.org/>

2.2.4 SAE Standards

SAE J1310 Electric Engine Preheaters and Battery Warmers for Diesel Engines Information Report

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

2.2.5 Canada Occupational Safety and Health Regulations

Department of Justice
Government of Canada
<http://laws-lois.justice.gc.ca/eng/regulations/sor-86-304/>

3. **REQUIREMENTS**

3.1 **Standard Design**

- 3.1.1 The vehicle **must** be the latest model from a manufacturer who has demonstrated acceptability by manufacturing and selling this type and size class of vehicle for at least one (1) year;
- 3.1.2 The vehicle **must** have engineering certification available, upon demand, for this application from the original equipment manufacturers (OEM) of major equipment systems and assemblies;
- 3.1.3 The vehicle **must** conform to all applicable laws, regulations and industrial standards governing manufacture, health and safety, noise levels, environment and emissions in effect in Canada at the time of manufacture;
- 3.1.4 The vehicle **must** have systems and components not operating at greater than their ratings published by the systems or components manufacturers; and
- 3.1.5 The vehicle **must** include all components, equipment and accessories normally supplied for the model offered, although they may not be specifically described in this Purchase Description.

3.2 **Operating Conditions**

- 3.2.1 **Weather** – The vehicle **must** start and operate under weather conditions found in Canada in temperatures ranging from -40 to 40°C (-40 to 104°F).
- 3.2.2 **Terrain**
 - (a) The vehicle **must** operate on use-roughened concrete floors, deteriorated outdoor paved surfaces and packed gravel with potholes while being used for stacking and un-stacking pallets and moving general supplies in and around warehouses; and
 - (b) The vehicle **must** operate off-road (e.g. construction sites, open fields and dirt tracks) including year round operations on snow, mud, sand and ice.

3.3 **Safety Standards**

- 3.3.1 **Noise Level** – The vehicle noise levels **must** meet the requirements of legislation relative to paragraph 7.4 of Canada Occupational Safety and Health Regulations both at the operator's station and exterior to the vehicle for exposures of eight (8) hours during a 24-hours period when measured in accordance with CAN/CSA Z107.56-13.
- 3.3.2 **Vehicle Safety** – All vehicle design, construction and safety aspects **must** be in accordance with the latest edition of ANSI/ITDSF B56.6.

3.3.3 **“D” Safety Rating**

- (a) The vehicle **must** be manufactured to meet the requirements of a “D” rating in accordance with standard UL 558 or North American **equivalent**, and
- (b) A valid UL certification mark confirming the vehicle meets the UL or **equivalent** safety rating **must** be permanently affixed to the vehicles before delivery.

3.4 **Performance**

3.4.1 **Vehicle Performance**

- (a) The vehicle **must** achieve a forward speed of at least 11 km/h (7 mph); and
- (b) The vehicle, loaded to the “**LIFT CAPACITY**” listed in the Requirements Summary Table (paragraph 1.4) **must** achieve a gradeability of at least 25 percent.

3.4.2 **Forklift Performance**

- (a) The vehicle, with the standard mast and no accessories, **must** have a load capacity of at least that given as “**LIFT CAPACITY**” at the load centre given as “**LOAD CENTRE**” in the Requirements Summary Table (paragraph 1.4);
- (b) The vehicle **must** achieve a lift height of at least that given as “**LIFT HEIGHT**” in the Requirements Summary Table (paragraph 1.4). This will be measured from the floor to the top of the forks with the mast in an extended, straight up vertical position;
- (c) The vehicle **must** have an over-all vehicle height at its highest point, with mast collapsed and in vertical position, of no more than that given as “**OVERALL HEIGHT**” in the Requirements Summary Table (paragraph 1.4);
- (d) The capacity of the vehicle **must** not de-rate by more than 227kg (500 lbs) while side shifter is in use.

3.4.3 **Dimensions**

- (a) The vehicle **must** have a clearance between the lowest fixed point of the vehicle and the ground of not less than 254 mm (10 inches); and
- (b) The overall unladen weight of the vehicles **must** not exceed 2,722 kilograms (6,000 lbs).

3.4.4 **Forklift Self Stowage**

- (a) The vehicle **must** be provided with a mechanism that allows a sole operator to securely mount the truck to transportation mode on the back of a commercial trailer in no more than 90 seconds; and
- (b) The vehicle **must** be provided with a mechanism that allows a sole operator to dismount the truck from transportation to operation-ready mode from the back of a commercial trailer in no more than 90 seconds.

3.5 **Equipment**

3.5.1 **Application Equipment**

(a) **Mast**

- i The vehicle ***must*** be provided with a telescopic, see-through, hydraulic vertical mast having a minimum 8-degree forward tilt capability and minimum 6-degree backward tilt capability. These tilt capacities are measured from the mast, vertical straight up position; and
- ii The mast ***must*** provide the operator a clear view of the fork-tips when the forks are on the ground level and the mast is in the vertical, straight up position.

(b) **Forks**

- i The vehicle ***must*** be provided with forks having a nominal length of 1,066 mm (42 inches); and
- ii Upon request by DND, forks with a nominal length of 1,219 mm (48 inches) or 914 mm (36 inches) ***must*** be provided in lieu of 1,066 mm (42 inch) forks.

(c) **Backrest** - The vehicle ***must*** be provided with a standard load backrest having a nominal height of 1,219 mm (48 inches);

(d) **Truck Mounting Kit**

- i. The vehicle ***must*** be provided with a set of self-stowage mounts that are compatible for installation on the back of a commercial trailer; and
- ii. The self-stowage mounts ***must*** be provided with complete instructions for their installations on the trailer/truck.

(e) **Side Shifter** - The vehicle ***must*** have a side shift of at least that given as “**SIDE SHIFT**” in the Requirements Summary Table (paragraph 1.4);

(f) **Fork Positioner** - The vehicle ***must*** be provided with a fork-positioning system.

(g) **Vandal Protection** – The vehicle ***must*** be provided with vandal protection including provisions for locking engine covers, filler caps and the cab with padlocks or an ***equivalent***,

(h) **Tool Compartment**

- i The vehicle ***must*** be provided with secure storage for all tools and loose equipment required for daily maintenance; and
- ii The tool storage ***must*** be weatherproof and protect tools and loose equipment from the environment.

(i) **Filler Caps**

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- i The vehicle **must** be provided with filler caps that clearly and permanently identify the contents; and
 - ii Filler caps **must** be identified by using international symbols, a standard (i.e. SAE 10W30) or be written out in both French and English.
- (j) **Fire Extinguisher**
- i The vehicle **must** be provided with at least one (1) 2.2 kg (4.85 lb nominal) portable, low temperature rated fire extinguisher (blue) having a minimum ULC rating of 2A-10BC (NSN 4210-21-871-9134); and
 - ii The fire extinguisher(s) **must** be installed such that it does not interfere with the operation of the vehicle or the view of the operator and is readily accessible to the operator.
- 3.6 **Operator Station**
- 3.6.1 **Overhead Guard** - The vehicle **must** be provided with a Falling Object Protective Structure (FOPS) and Rollover Protective Structure (ROPS) certified overhead guard for the protection of the operator.
- 3.6.2 **Removable Cab** - The vehicle **must** be provided with a soft removable cab.
- 3.6.3 **Operator's Seat**
- (a) The vehicle cab **must** be provided with a fully suspension operator's seat with a backrest and seatbelt;
 - (b) The operator's seat **must** be fore/aft and vertically adjustable without having to have the operator move from the seated position.
- 3.6.4 **Mirrors** – The operator station **must** be provided with rear view mirror(s) positioned providing a full view of both sides for safe reverse operations
- 3.7 **Chassis** – The vehicle chassis **must** be a non-articulated frame structure for a vehicle of this type and size.
- 3.8 **Engine** – The vehicle **must** be provided with a diesel engine that meets or exceeds Tier-4i certification without using Diesel Particulate Filter (DPF).
- 3.8.1 **Fuel Tank(s)** – The vehicle **must** be provided with a fuel tank having a capacity that allows the continuous operation of the forklift for eight (8) hours or more.
- 3.8.2 **Engine Cold Weather Aids**
- (a) The engine **must** be provided with cold weather aids to enable the engine to be started at temperatures down to -40°C (may include glow plugs or intake air preheat system);
 - (b) The engine **must** be provided with a 110 V AC powered engine coolant heater;
 - (c) The engine heater(s) **must** have a capacity as recommended by the engine manufacturer or conforming to SAE J1310; and
 - (d) The 110 V AC engine heater(s) connecting plug **must** be accessible by an operator standing beside the vehicle;

3.9 **Transmission**

3.9.1 The vehicle **must** be provided with an anti-stall hydrostatic transmission system.

3.9.2 **All-Wheel Drive System**

(a) The vehicle **must** be provided with a all-wheel drive system; and

(b) The all-wheel drive system **must** provide a 3 X 3 capability by delivering power equally to all wheels.

3.10 **Brake System** - The vehicle **must** be provided with a service braking system, including a parking brake, which **must** conform to CAN/CSA B335-04 or **an equivalent**.

3.11 **Steering**

3.11.1 The vehicle steering system **must** be standard power-assisted steering which **must** conform to CAN/CSA B335-04 or an **equivalent**,

3.11.2 The steering system **must** be provided with an adjustable (tilt and telescopic) steering column; and

3.11.3 The steering system **must** be provided with steering position indicators located in a position readily visible to the operator.

3.12 **Wheels, Rims and Tires** - The vehicle **must** be provided with self-sealing, snow and mud tires type having tractor-grip treads.

3.13 **Controls**

3.13.1 The vehicle **must** be provided with a control system to operate all mast functions; and

3.13.2 The vehicle **must** be provided with a system to ensure that the engine can only be started with all controls in their neutral position.

3.14 **Instruments** - The vehicle **must** be provided with an hour-meter which shows accumulated running time up to 9,999 hours; and

3.15 **Electrical System**

3.15.1 **Warning Horn** – The vehicle **must** be provided with a readily accessible, driver-operated warning horn; and

3.15.2 **Back-Up Alarm System** - The vehicle **must** be provided with a back-up alarm system that is activated the vehicle's transmission is placed in reverse.

3.16 **Lighting**

3.16.1 **Reverse Movement Strobe Light**

(a) The vehicle **must** be provided with a red strobe light or an **equivalent** mounted on the rear of the vehicle; and

(b) The red strobe light **must** be activated when the vehicle's transmission is in reverse.

3.16.2 **Amber Coloured Strobe Light**

- (a) The vehicle **must** be provided with an amber coloured, omni-directional beacon light; and
- (b) The beacon light **must** operate continuously when the vehicle ignition is in the “ON” position.

3.16.3 **Signal/Work Lights**

- (a) The vehicle **must** be provided with two adjustable LED work lights or an adjustable **equivalent** aimed rearward of the vehicle;
- (b) The vehicle **must** be provided with two adjustable LED work lights or an adjustable **equivalent** aimed rearward of the vehicle;
- (c) The vehicle **must** be provided with rear mounted stop lights;
- (d) The vehicle **must** be provided with front and rear mounted turn signal lights; and
- (e) The signal light control **must** be mounted on the steering column.

3.17 **Hydraulic System** - The vehicle **must** be provided with a hydraulic system that supports the operation of all hydraulic components.

3.18 **Lubricants and Hydraulic Fluids** - The vehicle **must** operate with non-proprietary, lubricants and hydraulic fluids.

3.19 **Paint** - The vehicle **must** be painted using commercial colours having a high-durability, corrosion-resistant type coating.

3.20 **Identification** - The vehicle **must** be provided with an identification plate having manufacturer's name, model and serial number permanently marked in a conspicuous and protected location.

3.21 **Instruments, Decals and Data Plates**

- 3.21.1 Instruments, decals and data plates provided on the vehicle **must** be marked in metric units;
- 3.21.2 Instruments, decals and data plates **must** be marked using international symbols. Where international symbols are not possible, bilingual markings (English and French) **must** be provided; and
- 3.21.3 Warning and precautionary data plates **must** be provided in a bilingual format.

4. **INTEGRATED LOGISTICS SUPPORT**

4.1 **Documentation and Support Items**

4.1.1 **Items Provided to Technical Authority**

(a) **Manuals for Approval**

- i The Contractor **must** supply a set of manuals for each Configuration/model, in digital format, including the operator, parts and maintenance (shop repair) manuals. Manuals may cover more than one (1) Configuration/model;
- ii The set of manuals **must** include manuals for all the specified accessories and features for the Configuration/model. Accessory manuals may be included as supplements to the vehicle manuals;
- iii The operator manuals **must** be supplied in a bilingual format as a package;
- iv Digital copies **must** be functional without the requirement for a password, an auto-run installation procedure or an Internet connection;
- v Digital copies **must** be supplied on a CD or DVD;
- vi Digital copies **must** be supplied in a searchable PDF format;
- vii The CD or DVD **must** be permanently and legibly marked with a list of contents;
- viii Manual approval or comments will be supplied within 15 working days of receipt; and
- ix The Contractor **must** supply responses to the **Technical Authority's** comments;
- x Manuals will not be returned;
- xi Paper copies of manuals delivered under this contract **must** have the same content as the electronic format approved by the **Technical Authority**.

(b) **Photographs and Line Drawings**

- i The Contractor **must** supply two (2) digital colour photographs, one left-front three-quarter view, and one right-rear three-quarter view of each Configuration/Model;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **must** be supplied;

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- iii One front-view and one side-view line drawing showing dimensions of the vehicle **must** be supplied. Brochure line drawings are acceptable;
 - iv Photographs **must** have a plain background;
 - v Photographs **must** be in a JPEG (Joint Photographic Experts Group) format; and
 - vi Photographs **must** have a resolution of at least eight (8) Mega pixels.

(c) **Data Summary**

- i The Contractor **must** supply a bilingual data summary for each Configuration/model, with vehicle data (including accessories and features) and a vehicle picture;
- ii The **Technical Authority** will supply a bilingual template of a data summary to the Contractor;
- iii The Contractor **must** supply a digital copy (MS Word) of the completed data summary for approval;
- iv Data summary approval or comments will be supplied within 15 working days of receipt; and
- v The Contractor **must** supply responses to the **Technical Authority's** comments.

(d) **Safety Data Sheets**

- i The Contractor **must** supply a list, in digital format, of all hazardous materials used on the vehicle;
- ii If there are no hazardous materials used, this **must** be stated on the list; and
- iii The Contractor **must** supply safety data sheets in both official languages, in digital PDF format for all hazardous materials in the list.

(e) **Warranty Letter**

- i The **Technical Authority** will supply a bilingual warranty letter template to the Contractor;
- ii The Contractor **must** supply a complete description of the warranty with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested;
- iii The warranty letter **must** include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; et
- iv The Contractor **must** supply the original warranty letter in digital format, for each vehicle delivered, to the **Technical Authority**.

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- (f) **Initial Parts Kit List**
- i The Contractor **must** supply a list of parts needed to perform preventive maintenance on one (1) vehicle for a period of one (1) year in accordance with the maintenance manual for each Configuration/Model;
 - ii A complete change of all filters and filter elements **must** be included in the list; and
 - iii The list **must** include the following elements: part description; Original Equipment Manufacturer (OEM) Part number; suggested quantity and unit cost.
- (g) **Training Plan(s)** - The Contractor **must** supply a training plan for approval for each of the training courses listed in this purchase description to the **Technical Authority**. Approval or comments will be supplied within 15 working days of receipt.

4.1.2 **Items with Each Vehicle**

- (a) **Operator's Manual** - The Contractor **must** supply an approved bilingual operator's manual in both paper and digital format with each vehicle delivered;
- (b) **Warranty Letter** - The Contractor **must** supply a copy of the warranty letter with each vehicle delivered;
- (c) **Safety Data Sheets**
- i The Contractor **must** supply a set of safety data sheets in paper and digital format; and
 - ii The safety data sheets **must** be the same as those supplied to the **Technical Authority** as described in the purchase description.
- (d) **Initial Parts Kit**
- i One (1) initial parts kit **must** be supplied; and
 - ii The initial parts kit **must** include a set of parts in the approved initial parts kit list as described in this purchase description.
- (e) **Maintenance Manual**
- i The Contractor **must** supply the approved maintenance (shop repair) manuals in paper and digital format in English required for the maintenance and repair of the vehicle, features and accessories; and
 - ii The Contractor may supply this deliverable as a bilingual package.
- (f) **Parts Manual**

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- i The Contractor **must** supply the approved parts manuals for the vehicle, features and accessories;
 - ii The parts manual **must** be supplied in English in paper and digital format; and
 - iii It is desirable to supply the parts manual in French in addition to the English version.
 - iv Digital parts manuals **must** be supplied in a searchable PDF format CD/DVD-ROM.

4.2 **Training**

(a) **Training – Familiarization**

- i The Contractor **must** supply a familiarization course, at the delivery destination, optimized for operators and technicians who are qualified on the vehicle type but require training on newer or unique features and sub-systems of the delivered model;
- ii The instructor **must** be an OEM Factory Certified Training Provider;
- iii The course **must** be delivered in the official language (English or French) specified in the contract for that delivery destination;
- iv **Curriculum**
 1. The familiarization course **must** include operation and maintenance segments;
 2. The operation segment **must** include safety precautions to be observed while operating and servicing the vehicle, vehicle operating characteristics, pre-operating and shutdown procedures and daily/weekly operator servicing procedures;
 3. The operation segment **must** include sub-systems including automatic grease system and pre-heaters; and
 4. The maintenance segment **must** include diagnostics, trouble shooting and operation of any special tools and test equipment (if any).
- v The familiarization course **must** have a minimum duration of eight (8) hours, divided into four (4) hours for operators and four (4) hours for technicians;
- vi The familiarization course **must** accommodate up to eight (8) personnel; four (4) operators and four (4) technicians;
- vii The date for the familiarization course **must** be arranged with the **Technical Authority**;

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- viii After completion of the familiarization course, the Contractor **must** have the “**PROOF OF FAMILIARIZATION**” certificate signed by the senior course attendee; and
 - ix The **Technical Authority** will supply the “**PROOF OF FAMILIARIZATION**” document template in a digital format.

(b) **Training – Troubleshooting**

- i The Contractor **must** supply a troubleshooting course in the official language (English or French) specified in the contract for that delivery destination;
- ii The instructor **must** be an OEM Factory Certified Training Provider;
- iii The troubleshooting course **must** include detailed testing, troubleshooting, problem analysis and adjustments training;
- iv The troubleshooting course **must** have a minimum duration of eight (8) hours but not exceeding eight (8) hours a day;
- v The troubleshooting course **must** accommodate up to eight (8) maintenance personnel;
- vi The troubleshooting course **must** be supplied at each delivery destination;
- vii The date for the troubleshooting course **must** be arranged with the **Technical Authority**;
- viii After completion of the troubleshooting course, the Contractor **must** have the “**PROOF OF TROUBLESHOOTING TRAINING**” certificate signed by the senior course attendee; and
- ix The **Technical Authority** will supply the “**PROOF OF TROUBLESHOOTING TRAINING**” document template in a digital format.

5. ACCEPTANCE TESTING

- 5.1 The first vehicle **must** be examined and performance tested by the Contractor, either at the Contractor's facility or at the delivery location at the discretion of the **Technical Authority**, to ensure conformance to the requirements in this document;
- 5.2 The Contractor **must** arrange and provide necessary tools/equipment and personnel required to conduct the acceptance testing;
- 5.3 The **Technical Authority** will select items for the testing as per performance characteristics described in section 3 of this document and provide a test plan before the testing is conducted;
- 5.4 The **Technical Authority** or their authorized representative will witness this testing to assess the handling characteristics; and
- 5.5 The Contractor **must** rectify deficiencies to requirements that are identified during the acceptance testing prior to the vehicle(s) being shipped to their delivery destination.

6. DELIVERY CONDITION

- 6.1 The vehicle **must** be delivered to destination in a fully operational condition (serviced and adjusted). Both the interior and exterior **must** be cleaned;
- 6.2 If the vehicle requires assembly at destination, the Contractor **must** be responsible for all manpower and equipment to perform assembly;
- 6.3 The space for assembly at destination will be provided, if required;
- 6.4 All items such as wheel wrenches, jacks, and all other tools, equipment and accessories, which are shipped loose with the equipment, **must** be listed on the shipping certificate or to an attached packing note; and
- 6.5 The fuel tank(s) of the vehicle **must** be no less than half full on delivery.