



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods. Disclosure notices and handling instructions originally received with the document must continue to apply.

AVIS

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## **STATEMENT OF WORK FOR THE R&O OF HLVW STEERING BOXES AND PUMPS**

The Department of National Defence requires repair and overhaul of steering boxes and pumps to support the sustainment of the Heavy Logistic Vehicle Wheeled (HLVW) fleet of vehicles. The Contractor will provide a complete evaluation and repair of these parts. This Statement of Work describes the requirements to return the NSNs listed below in para 1 and associated internal and external parts to a serviceable condition.

1. The Contractor must carry out all necessary processes required to return the following steering boxes and pumps and related items such as internal parts, external parts, including shafts protruding from the cylinders and attachments to a fully serviceable condition, in accordance with the scope of work detailed herein and Annex B – Log SOW.
  - a. Steering Box - NSN 2530-12-320-5246, NCAGE D8124, Part # 8046 955 182
  - b. Steering Box - NSN 2530-12-329-5923, NCAGE D8124 , Part # 8046 955 185
  - c. Pump Steering - NSN 4320-12-319-5807, NCAGE D8124, Part # 7672 955 280
  - d. Pump Steering - NSN 2530-12-329-5292, NCAGE D8124, Part # 7673 955 530
  - e. Rotary Pump - 4320-01-320-1828, NCAGE 13829, Part # 324 9134 106
  - f. Rotary Pump - NSN 4320-01-350-4797, NCAGE 13829, Part # 312 9310 645
  - g. Valve, Linear Directional Control - NSN 4820-01-366-5307, NCAGE 13829, Part # 347 9208 148
  - h. Pump, Rotary - NSN 4320-01-370-8972, NCAGE 13829, Part # 323 9120 122
  - i. Pump, Hydraulic - NSN 4320-20-000-7024, NCAGE 2172N, Part # 991 14 82 0080
  - j. Valve, Linear Directional Control - NSN 4820-21-906-0231, NCAGE 35683, Part # 601 00 0120
  - k. Valve, Linear Directional Control - NSN 4820-21-906-0240, NCAGE 35683, Part # 601 17 0527
  - l. Valve, Safety Relief - NSN 4820-21-906-0605, NCAGE 35683, Part # 601-00-0134
  - m. Pump, Rotary - NSN 4320-01-343-6501, NCAGE 13829, Part # 73127-G
2. The Contractor is responsible for the completion of all work related to the R&O services of the items specified in this Statement of Work hereinafter including disassembly, cleaning, inspection, repair, overhaul, calibration, testing and packaging.
3. The Contractor is responsible for procuring all replacement parts and materials in support of the R&O services to bring the above-mentioned items to serviceable condition. All parts must be supplied by the OEM or their authorized distributors/dealers in accordance with the most recent OEM drawings and /or specifications. Any proposed amendments or changes to the specification of the parts must be authorized by the Technical Authority (TA).
4. All work must be performed in accordance with the most recent OEM specifications. All work must be performed in accordance with C-30-404-000/MP-000.
  - a. NSN 2530-12-320-5246 Steering Box , NCAGE D8124, Part # 8046 955 182
  - b. NSN 2530-12-329-5293 Steering Box , NCAGE D8124 , Part # 8046 955 185
  - c. NSN 4320-12-319-5807 Pump Steering , NCAGE D8124, Part # 7672 955 280

d. NSN 2530-12-329-5292 Pump Steering , NCAGE D8124 , Part # 7673 955 530

5. In the event of conflict between the documents referred to herein, the Original Equipment Manufacturers (OEM) specification takes precedence.

6. The following work is mandatory and must be performed in conjunction to para 4 for all cylinders and related items.

#### 6.1.Cleaning

All internal components must be cleaned as per specifications (para 4). External surfaces must have the old paint removed to ensure there are no cracks and that the new paint adheres to all surfaces when repainted.

#### 6.2.Inspection

The steering boxes, pumps, valves and related items must be inspected completely for worn, damaged, burnt, cracked and broken internal and external parts. The process must include a inspection of all threaded holes and inserts.

#### 6.3.Repair

The Contractor must repair or replace all components found to be worn, damaged, burnt or cracked, as required.

The Contractor must repair all threads and threaded ports found damaged. The serviceability of the threads and ports (internal and external) is the responsibility of the contractor.

The Contractor will be paid for the repairs at the Contractor's laid-down cost, and at a firm hourly labour rate.

#### 6.4.Packaging and Preservation:

The Contractor must follow procedures for preservation, packaging, handling, storage and transportation as per specifications D-LM-008-002/SF-001. All wooden containers must meet International Standard for Phytosanitary Measures, ISPM 15, which is the standard that regulates wood packaging. The crates must be made of treated wood. All crates must be identified by a stamped or painted alphanumeric characters, both in matte green color 34094. The steering boxes, pumps and related items must be preserved, packaged, handled, stored and transported as per the specifications in D-LM-008-002/SF-001. The process must include caps and inserts for all threaded openings.

#### 6.5.Crates

The Contractor must replace wooden crates for items identified in para 1, received at the R&O facility that do not meet ISPM 15 standard (International Standard for Phytosanitary Measures); the standard which regulates wood packaging.

- a) The Contractor must build an exterior plywood sheathed Type I wooden crate with a skid base and proper voids for lifting by a fork lift. The wooden members and plywood sheathing must adhere to the ISPM 15 standard and all crates must be stamped accordingly.
- b) Moisture content of wood members must not be greater than 19%. For plywood, the moisture content must be in the range of 4% to 8% of its oven dry weight.
- c) All wooden containers where applicable such as frame members and struts and skids ,

sheathings, deck boards, stringers must be stressed treated wood per D-13-01, painted in matte green color 34094.

- d) The Contractor must provide to the TA, on a quarterly basis a record of all rejected crates. The quarterly periods are defined as follows:
- 1st quarter: April 1 to June 30;
  - 2nd quarter: July 1 to September 30;
  - 3rd quarter: October 1 to December 31; and
  - 4th quarter: January 1 to March 31.
- e) The Contractor must use wooden crates that protect the contents from any possible hazards associated with shipping and storage. The crates must be capable of being transported stacked two crates high, fully loaded. The crate must provide enough anchorage for the load to prevent load shifting or movement, sliding, tilting and tipping during the shipment with proper groove, wedge bed or inside blocking secured with proper metal or fiber straps. The crates must be made of treated wood and painted in matte green color 34094.

#### 6.6. Markings

The Contractor must follow DND specifications (D-LM-008-002/SF-001) for all markings used on crates and include specific markings identified below. These markings must be printed with water proof ink on one side of the crate.

- This is property of Department of National Defence.
- This side up ↑

#### 7. Mandatory replacement parts

The contractor must replace all parts as detailed in C-30-404-000/MP-000 and the most recent OEM specifications.

#### 8. Substitution:

- 8.1. All substitute parts must be supplied by OEM or the current IP Owner or their authorized distributors / dealers, in accordance with the most up to date drawings or specifications.
- 8.2. Any proposed amendment or change to the part specification must be authorized in writing by the Technical Authority (TA).
- 8.3. All non-OEM or non-IP Owner parts, must be of the same form, fit, function and quality as per the OEM's or current IP Owner's specification and must be approved in writing by the TA prior to their use.
- 8.4. The Contractor must provide to the TA information required to evaluate the proposed substitute parts including technical data, drawings and specifications.

9. The Contractor must maintain records of all work performed under this SOW and provide a quarterly report to the TA on the disposition of all BER items including, but not limited to, components used to repair the parts detailed in para 2. The quarterly periods are defined as follows:

- 1st quarter: April 1 to June 30;
- 2nd quarter: July 1 to September 30;
- 3rd quarter: October 1 to December 31; and
- 4th quarter: January 1 to March 31.

9.1. The contractor must maintain records of failure reports for the duration of the contract and provide a copy to the TA upon request. Quarterly reports must be provided to the TA and PA. The information must include the following:

- a) Work Order number; and
- b) Classification of failure
  - (i) Normal Wear & Tear,
  - (ii) Abnormal Condition, and
  - (iii) Cause of Failure.

9.2. The contractor must identify the cause of failure using one of the following conditions:

- a) Misuse,
- b) Improper Maintenance,
- c) Manufacture Defect and
- d) Accident

#### 10. Repair and Overhaul Manager (R&OM):

The Contractor must assign an R&OM for this R&O contract. The R&OM is responsible for all aspects of the work under this SOW. The R&OM is the main interface with DND.

The Contractor must advise the TA and the PA of any changes associated with the role of R&OM within 10 days from the time the change is implemented.

#### 11. Technical Investigations & Engineering Studies (TIES) and Special Investigations & Technical Studies (SITS).

When requested through a DND 626 (Task Authorization), the Contractor must perform TIES and SITS.

#### 12. Inspection

The Contractor must comply with all elements of the SOW as specified herein. This must include the following essential elements:

- i. A sample inspection for each individual R&O process stage;
- ii. All items must be inspected after overhaul process;
- iii. Visual inspection of parts prior to installation; and
- iv. All inspection records must be kept for the duration of the Contract.

Inspections must be coordinated with NDQAR.

#### 13. Quality assurance requirements:

##### 13.1. Responsibility :

A serviceability failure of a part or component will be evaluated on a case-by-case bases by DND in collaboration with the Contractor.

Unless otherwise specified in the SOW, the contractor must be responsible for the performance of all parts/components following repair and overhaul work as specified below:

- a) All items must be inspected for serviceability following repair and overhaul;
- b) A visual inspection of parts prior to re-assembly; and

- c) Retention of all inspection records for the duration of the contract.

Every failure will be evaluated on a case-by-case basis by the Contractor in collaboration with the Technical Authority. The contractor is fully responsible to ensure they are knowledgeable on recent OEM technology and process changes. This information is to be forwarded to the Technical Authority to determine if an engineering change must be raised.

#### 14. R&O Contractor Effectiveness Report

14.1 In order for the TA to properly track the work which is in progress and which has been completed, the Contractor must provide an R&O Contractor Effectiveness Report to the TA and CA on a quarterly basis and within 5 business days whenever requested.

14.2 The quarterly periods are defined as follows:

- 1st quarter: April 1 to June 30;
- 2nd quarter: July 1 to September 30;
- 3rd quarter: October 1 to December 31; and
- 4th quarter: January 1 to March 31.

14.3 The report must be submitted to the TA and CA no later than 5 calendar days following the end of the quarterly reporting period.

14.4 The report must contain at least the following details:

1. Qty of items
2. NSN
3. Description
4. Work Order number
5. Date received
6. Current status
7. Estimated completion dates

14.5 Any deviations to this list of required details must be approved by the TA.