



**Ministry
of Defence**



**REPAIR AND SUPPORT OF THE LASER INERTIAL
NAVIGATION ARTILLERY POINTING SYSTEM (LINAPS).
FITTED TO L118 FIELD GUN (105MM LIGHT GUN).**

Statement of Requirement (SOR)

ARTYSYS/00300

Dated 14/02/2019

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Introduction

The Artillery Pointing System manufactured by Leonardo MW and fitted to the UK L118 Field Gun (105mm Light Gun) generates all positional data for the Light Gun, both location and point of aim. This SoR lays out the requirements to support the equipment in terms of repair, modification, PDS and other associated tasks in support of the system.

1. **Duration.** The Contractor shall provide an initial Contract period of three years with an option period of an additional two years.

a. **Initial Contract Period.** Shall include requirement # 2-12, exclusive of 2b and 2c for a period of three years from Contract award. Any items loaded for repair or any TAF submitted and receipted by the contractor within the period of the contract, up to and including the last day, shall be repaired or completed within the agreed turnaround time. In the case of TAFs the turnaround time will be agreed once the full scope of work is understood.

b. **Option (extension) period.** An additional two years, this shall include requirement # 2c and 3-12. Any items loaded for repair and receipted by the contractor within the period of the contract extension, up to and including the last day, shall be repaired with the agreed ARTT.

2. **Repair.** The Contractor shall provide a repair service for the Laser Inertial Navigation Artillery Pointing System (LINAPS)

a. **INU Repair.** The Contractor shall provide a repair service for the '3110 - Inertial Navigation Unit (INU)' [NSN 6605996546500 / Pt No 3854-86020]:

i. The Contractor shall repair 30 INUs in the initial three-year Contract period.

ii. The Contractor shall return an A1 INU within the specified ARTT of 90 days. This is from the point of receipt at Leonardo Edinburgh to the point that the MoD is notified of readiness to dispatch from the Leonardo premises and has received an electronic copy of the CofC for the LRU. CofC's shall be sent electronically to the Commercial Officer and Project Manager specified in Appendix 1 to Schedule 4 (Contract Data Sheet).

iii. Repair cost shall be inclusive of additional spares not already held by the Contractor as GFE. The Contractor shall be responsible for provision of the appropriate level of spares above those already supplied to the Authority under contract ARTYSYS/0248, to repair the specified quantities of INUs in the period.

b. **Repair Surge (INU Only).** The Contractor shall provide repair for additional INUs in the instance of increased demand due to operations. The Authority shall submit to the Contractor a TAF for any INUs to be repaired under this item.

i. This shall be within the initial three-year Contract period.

ii. The Contractor shall be responsible for provision of the appropriate level of spares to repair the LRUs submitted under this line via TAF.

- iii. Taskings shall only be raised following submission of 30 repairs under Line Item 1a (Serial 2 of this Statement of Requirement).

c. **Option Period Repair.** The Contractor shall provide a repair service for INUs if a further two-year option period is invoked:

- i. The Contractor shall repair 20 INUs in the two-year option period.
- ii. The Contractor shall return an A1 INU within the specified ARTT of 90 days. This is from the point of receipt at Leonardo Edinburgh to the point that the MoD is notified of readiness to dispatch from the Leonardo premises and has received an electronic copy of the CofC for the LRU. CofC's shall be sent electronically to the Commercial Officer and Project Manager specified in Appendix 1 to Schedule 4 (Contract Data Sheet).
- iii. Repair cost of INUs in the option period shall be inclusive of additional spares not already held by the Contractor as GFE. The Contractor shall be responsible for provision of the appropriate level of spares to repair the specified quantities of INUs in the period.

d. **LDCU Repair.** The Contractor shall provide a repair service for the 'Layers Display and Control Unit Mk2 (LDCU Mk.2)' [NSN 7010992328909 / Pt No AP50057844]:

- i. The Contractor shall repair LDCU Mk.2 submitted to them via TAF in the initial 3-year Contract period.
- ii. The Contractor shall be responsible for provision of spares to repair the LDCU Mk2s submitted via the TAF process.
- iii. TRT will be agreed on a case by case basis, with The Authority intending to load batches of LDCUs.

3. **PDS.** The Contractor shall provide the Authority with post design services for all aspects of the Automatic Pointing System (APS):

- a. Carry out specific PDS tasks as authorised in accordance with the Tasking Authorisation process.
- b. Responses to Tasking Authorisation Form (TAF Pt 2) requests are to be within 30 working days or as otherwise agreed between Contractor and PDS manager.
- c. Provide an answer to routine queries raised by the Authority regarding technical matters.

4. **Modifications.** The Contractor shall propose all modifications at the next 6 monthly Progress Meeting.

- a. The Contractor shall be responsible for the production of a modification proposal pack, this shall contain all relevant information regarding the modification.
- b. Modification Incorporation shall mean the incorporation of the modified design into the Master Design Records.

5. **Software.** The Contractor shall support all bespoke software associated with the APS:
- a. The Contractor shall provide the Authority with details of any software updates through the quarterly reports. This shall include the nature of the update (routine or immediate), any safety implications and how the update shall be implemented.
6. **Configuration Management.** The Contractor shall maintain a Configuration Management System for the items under Contract in accordance with the requirements of the current version of Def Stan 05-57.
- a. The Contractor shall supply the Technical Data Pack (TDP) in electronic format to the Authority within 20 working days of Contract placement.
 - b. Additionally, three extant copies shall be supplied to the Authority within 10 days of the completion of any modification to the system.
 - c. The Contractor shall hold and maintain the master TDP in both hard copy and electronic. An insurance backup hard and electronic copy shall be kept at a separate site from that of the master set.
 - d. The Contractor shall record all changes to the TDP. When amendments are made to the TDP, the Authority shall be advised of such changes, and three copies of the extant TDP supplied to the Authority.
7. **Obsolescence.** The Contractor shall undertake the monitoring of obsolescence of the APS equipment and its ancillaries in accordance with IEC 62402:2007.
- a. The Contractor shall review their existing obsolescence plan and submit an update as part of the tender response. This should include the initial obsolescence report.
 - b. The Contractor shall maintain an obsolescence database in accordance with the requirements of the current issue of BS 7000 part 5 and provide Annual Obsolescence Reports to the Authority.
 - c. Where the Contractor discovers an immediate obsolescence issue which prevents repairs being carried out, the Contractor shall submit to the Authority a Report 'By Exception' within 5 working days of discovery of the issue.
8. **Safety.** The Contractor shall immediately advise the Authority if during the term of this Contract the Contractor should become aware of any potential safety or system criticality issues.
- a. The Contractor shall inform the Authority immediately, or as soon as is practicable, of any safety or environmental issue or incident involving the APS or its ancillary equipment, that could have implications for either the operation or maintenance of the UK's fleet, whether this occurred on the UK fleet, or any other nation's system.
 - b. The Contractor shall provide engineering representation in person at the Towed Artillery Project Safety and Environmental Panel (PSEP) in the case of any significant incident or issue as determined by the Authority. Representation shall continue at any subsequent panel if the associated hazards/risks are not deemed ALARP.

9. **Quality.** The Contractor shall hold Quality Management System certification to ISO 9001:2015 or suitable alternative issued by a National Accredited Certification Body, with the appropriate scope to deliver Contract Requirements for the duration of the Contract.

a. The Contractor shall maintain compliance with the following Standards for the duration of the Contract:

- i. AQAP 2110 Edition D Version 1
- ii. AQAP 2210
- iii. Defstan 05-135
- iv. Defstan 05-61 Part 1
- v. Defstan 05-61 Part 4
- vi. Defstan 05-57

b. The Contractor shall provide a quality plan in the bid response and ensure the following questions are answered.

- i. Provide full details of how Government Furnished Equipment (GFE) is controlled. Particularly details of GFE identification, verification, protection, safeguarding, storage, reporting of damaged articles, calibration and testing and transmission of GFE applicable to this Contract and how these are communicated.
- ii. Provide details of the repair procedures and the process(es) for Consignee Receipt/Hastening receipts applicable to this Contract.
- iii. Details of the management of Redundant Assets, how they are identified, reported, stored, controlled and disposed of applicable to this Contract.
- iv. Provide full details of how the Contractor manages the flow down of Contract Conditions to their suppliers and monitors them to ensure compliance.

c. **GFA Management.** The Contractor shall manage all supplied GFA/GFE in accordance with extant MOD policy.

- i. Provide a GFA management plan.

10. **Risk.** The Contractor shall maintain a UK APS risk register and provide visibility to the Authority.

a. The Contractor shall make the Authority aware of any new risk that may affect the Authorities risk register.

b. The Contractor shall provide an overview of the risk management approach for UK LINAPS with the tender response.

Contract Monitoring, Analysis and Reporting

11. **Reports.**

a. **Quarterly.** The Contractor shall provide the quarterly progress reports in accordance with the deliverables. Quarterly Progress Reports (QPR) shall be issued at

three monthly intervals, commencing three months from Contract award. The report shall provide detailed information relevant to each LRU received for repair and make an evaluation of overall equipment reliability and an accurate account of spares consumed.

- i. Repair log summary. Received, pending, completed, dispatched, ARTT (both for the per 6 monthly period (i.e. the average of the current quarter and the preceding quarter) and cumulatively for the Contract so far) other repair issues, copy of CofC for each finalised repair.
- ii. Spares consumption and balance of remaining GFE spares.
- iii. Unserviceable spares or parts removed from Contract Work Items. Serial numbers and disposal information.
- iv. Software updates and issues.
- v. Emerging trends.
- vi. Core PDS task summary. Approved, in-hand, completed.
- vii. Modifications. Required, planned, embodied.
- viii. Configuration management.
- ix. Current/emerging safety risks and issues.
- x. GFE loan equipment summary/issues.
- xi. Significant inspections and audits.
- xii. Quality assurance updates.

b. **Annually.** The Contractor shall provide an updated Obsolescence Report. Where the Contractor discovers an immediate obsolescence issue which prevents repairs being carried out, the Contractor shall submit to the Authority a Report 'By Exception' within 5 working days of discovery of the issue.

12. **Meetings.** The Contractor shall be available for tele-conferences and face to face meetings.

a. **Biannual Progress Meetings (BPM).** The Contractor shall be available for a face to face conference to cover an agenda agreed with the Authority. The Biannual Progress Meeting shall alternate between the Contractor's Premises (2 Crewe Road North, Edinburgh) and the Authority's Premises (MOD Abbey Wood, Bristol).

- i. The Contractor shall produce minutes of each conference within 10 working days of the conference.