

File ref: Statement of Requirements

Date: 25th November 2022

40mm Cased Telescoped Cannon and Ammunition (CTCA)

STATEMENT OF REQUIREMENT

PROCUREMENT OF THE EXAMINATION OF ORDNANCE EQUIPMENT

ENDOSCOPE/VIDEOSCOPE

INTRODUCTION AND BACKGROUND

1. This Statement of Requirement (SOR) defines the Endoscope/Videoscope of the Examination of Ordnance (equipment to be procured to support the mandated inspection regime for the new CT40 Cannon, being introduced to AJAX.
2. This SOR is for the procurement of quantity 16units (Endoscope/Videoscope) to support the X of O of the CT40 40mm barrel in compliance with the mandated inspection regime, identified by the Vehicle Demonstration Manufacture Cannon Project Team. This is not achievable to the required standard with the current in-service tooling.
3. The equipment is required by 31st March 2023.

REQUIREMENT

4. The contractor is required to deliver the equipment in accordance with the technical, integrated logistic (iLog) and project requirements in this document.

SERIAL	STATEMENT OF REQUIREMENT	CONTRACT DELIVERABLES	ACCEPTANCE CRITERIA
1A Technical requirements			
1	To view the complete bore of the barrel	The equipment must be able to view the full length of the barrel bore that is 2800mm.	<p>2800mm plus sufficient length to operate the equipment.</p> <p>Confirmation of compliance and supporting evidence to be provided in Appendix 2 to Annex B of DEFFORM 47.</p>
2	Image capture	The equipment must be able to capture and print an image at any position in the bore	<p>The equipment MUST be able to capture and print an image at any position of the full length of the bore, and 360 degrees of the bore surface.</p> <p>Confirmation of compliance and supporting evidence to be provided in Appendix 2 to Annex B of DEFFORM 47.</p>
3	The equipment must be able to store the captured images	The images must be able to be downloaded onto a memory device, that can then transfer the data onto a database.	<p>JPEG images that are compatible with Windows10.</p> <p>If JPEG images are not available, please provide information of what type of image format is produced, and its compatibility with Windows 10 at Appendix 2 to Annex B of DEFFORM 47.</p> <p>Please describe HOW images are transferred on to a windows data base, in the Tender response at Appendix 2 to Annex B of DEFFORM47.</p>

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4	Viewing screen	The screen must be capable of clear, defined colour images	<p>The screen size must be no less than 4 inches and must NOT need to be connected to a laptop to operate.</p> <p>Confirmation of compliance and supporting evidence to be provided in Appendix 2 to Annex B of DEFFORM 47.</p>
5	Text display	The equipment is to have the capability to add text to the image.	<p>The text is to have the capability of adding no less than 25 characters that will be visible on the printed image.</p> <p>Confirmation of compliance and supporting evidence to be provided in Appendix 2 to Annex B of DEFFORM 47.</p>
6	Bore alignment	The equipment must be delivered with a bore centring device.	<p>The camera must always follow the centre axis of the bore.</p> <p>Confirmation of compliance and supporting evidence to be provided in Appendix 2 to Annex B of DEFFORM 47.</p>
7	The equipment must be capable of being mains and battery powered.	<p>The equipment must be able to connect to mains power supply and vehicle power supply. Batteries are to be rechargeable.</p> <p>Note: Batteries MUST be included</p>	<p>Mains supply 240v Vehicle supply 24v Battery life is to exceed 2hrs – This is the minimum requirement.</p> <p>Confirmation of compliance and supporting evidence to be provided in Appendix 2 to Annex B of DEFFORM 47. Battery Life must be confirmed,</p>

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8	Bore length indication	The user must be able to determine the exact position of the image taken throughout the full length of the bore.	<p>The method of position indication is to allow the user to input the details into the text display.</p> <p>Please EXPLAIN HOW the position is indicated, in the Tender response at Appendix 2 to Annex B of DEFFORM 47.</p>
9	Manual Handling – the equipment is to be single person portable.	Total weight of unit and transit case (see serial 19-packaging) combined must NOT exceed 20kg and is to be capable of being moved by manual handling devices.	<p>Provide confirmation of weight of each unit and the transit case in the tender response Appendix 2 to Annex B of DEFFORM 47.</p> <p>Confirmation of compliance and supporting evidence to be provided in Appendix 2 to Annex B of DEFFORM 47.</p>
10	Delivery Profile	The contractor shall package and deliver x16 endoscopes/videoscopes to MOD Donnington Depot in accordance with the required Delivery Schedule (one delivery by the 31 st March 2023).	<p>To be delivered in accordance to the technical requirements, i-Log requirements detailed in this document.</p> <p>Confirmation of compliance to be provided in Appendix 2 to Annex B of DEFFORM 47.</p>
1B. Other requirements			
11	Cyber Risk Assessment	<p>A Supplier Cyber Risk Assessment (SCPS) has been completed by the Authority and the risk profile has been identified as 'Very Low' (ref. RAR-744255721).</p> <p>The contractor must complete the Supplier Assurance</p>	<p>SAQ, and supporting evidence provided, to comply with the Cyber Risk Profile of 'Very Low'.</p> <p>The questionnaire is accessible at the link below; https://supplier-cyber-protection.service.gov.uk/ </p>

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		Questionnaire (SAQ) via the SCPS, to demonstrate their compliance with the Cyber Risk Profile.	Confirmation of compliance and supporting evidence to be provided in Appendix 2 to Annex B of DEFFORM 47.
12	Quality Management	The contractor is required to hold Quality Management System certification to BS EN ISO 9001 or suitable equivalent, with the appropriate scope to deliver contract requirements, issued by a Nationally Accredited Certification Body.	<p>Provision of a copy of the certificate(s) as directed by the Invitation to Tender (ITT) associated with this requirement, and in any event, the winning supplier will be required to provide it for review prior to contract award.</p> <p>Confirmation of compliance to be provided in Appendix 2 to Annex B of DEFFORM 47.</p>
13	Quality Management	Provision of a Certificate of Conformity in accordance with Defence Condition 627.	<p>Certificate of Conformity (CofC)</p> <p>Confirmation of compliance to be provided in Appendix 2 to Annex B of DEFFORM 47.</p>
14	Project management	The Contractor shall notify the Authority in the first 2 days of becoming aware of any risks/issues that may cause slippage to the Delivery Schedule and provide a fortnightly update with findings/ resolution to the problem.	Confirmation of compliance to be provided in Appendix 2 to Annex B of DEFFORM 47.
15	Project Management	<p>The Contractor shall nominate a primary Point of Contact (POC) and shall:</p> <ul style="list-style-type: none"> ○ Provide telephone, email and fax contact details for the POC. ○ Respond to Authority requests for assistance made within normal UK working hours no later than two working days after the request is made. 	Provision of information, and confirmation of compliance to response time to be provided in Appendix 2 to Annex B of DEFFORM 47.

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		Respond to any Authority written correspondence within five working days of receipt unless otherwise agreed by the Authority.	
1C. I-LOG REQUIREMENTS - Integrated Logistic Support (ILS) Deliverables and delivery plans			
16a	Maintenance	Maintenance plan	<p>Please provide the information required for Serial 16a to 16f below with your tender response, in Appendix 2 to Annex B of DEFFORM 47.</p> <p>The Maintenance plan is to include confirmation of the tasks required for management of the equipment post-warranty period, necessary to maximise the life of the unit(s).</p>
16b	Support and test equipment (S&TE)	S&TE plan	<p>Linked to the maintenance tasks above, the S&TE plan is to identify all support and test equipment required to maintain the equipment post warranty period to maximise the life of unit(s).</p>
16c	Spare components	<p>All components of the equipment that can be replaced at Level 1 (L1) shall be identified and a list supplied.</p> <p>NOTE: Level 1 is defined as maintenance that can be conducted at user level. User level is defined as someone with no formal training for equipment repair.</p>	<p>Provide a list for the identification of all items capable of being replaced at L1 (user) and L2 (maintainer).</p> <p>Please provide a list of items that can be replaced by L1.</p>

16d	Maintenance tools	<p>All components of the equipment that can be replaced or undergo minor repair at Level 2 (L2) shall be identified and a list supplied.</p> <p>NOTE: Level 2 is defined as maintenance conducted at unit level (REME- Royal Electrical and Mechanical Engineers) by replacement or minor repair.</p> <p>Any tools to maintain the equipment shall be identified</p>	<p>Please provide a list of items that can be replaced or repaired by L2.</p> <p>A full list of the tools required for maintenance to be provided.</p>
16e	Maintenance planning	<p>The Contractor shall determine probable L1 and L2 maintenance tasks until the end of the warranty period. Identify spares, tools, facilities, documentation, techniques, and manpower required for maintenance tasks.</p>	<p>Identify spares, tools, facilities, documentation, techniques, and manpower required for maintenance tasks at a minimum.</p>
16f	Technical documentation	<p>Include a Fault Tree Analysis (FTA) if applicable. If applicable, the FTA must define and identify causes of top-level faults as a minimum.</p> <p>All documentation, or manuals, regarding operating procedures and maintenance procedures shall be supplied as MS Word or PDF files.</p> <p>If capable, the contractor shall supply in AESP format.</p>	<p>If applicable, the FTA must define and identify causes of top-level faults as a minimum.</p> <p>Confirmation to be provided that documentation/manuals shall be supplied in MS Word or PDF files for transfer into Army Equipment Support Publication (AESP) format.</p> <p>If capable, the contractor shall supply in AESP format as well</p>

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17	Codification of all supplied units.	<p>The units supplied as complete equipment shall be codified by the Contractor in compliance with Defence Condition 117 (Supply of Information for NATO requirements).</p> <p>The equipment shall be supplied with a reusable hardened transit case for ease of transit. The transit container shall have bespoke internal spaces for the associated component parts.</p>	<p>NATO Stock Number (NSN) to be provided in the Tender response at Appendix 2 to Annex B of DEFFORM47; or</p> <p>Commit to codify post-contract award, at Appendix to Annex B of DEFFORM 47.</p>
18	Supply of all required drawings	<p>Images of the complete equipment, spare items and tools shall be supplied on request from the Authority.</p> <p>General arrangement drawings of the equipment to show the position and function of the spares recommended.</p> <p>Data required as a minimum if images are unavailable.</p>	<p>Geometry – the shape of the object; represented as views; how the object will look when it is viewed from various angles, such as front, top, side, etc.</p> <p>Dimensions – the size of the object</p> <p>Material – represents what the item is made of.</p> <p>Dimensional details and materials to be listed.</p> <p>Provide above data of the complete equipment as a minimum.</p> <p>Confirmation of compliance and supporting evidence to be provided in Appendix 2 to Annex B of DEFFORM 47.</p>

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<p>19a</p>	<p>Transport</p> <p>Packaging</p>	<p>The equipment is to be packaged in accordance with DEFCON 129 & DEFSTAN 81-041. The Authority reserves the right to review the Contractor packaging level and require a higher level if required.</p> <p>Any items that are classed as Assets Subject to Special Control (ASSC) shall have a Unique Item Identifier assigned in accordance with DefStan 05-132 and DEFFORM 528.</p>	<p>The Tenderer shall define special requirements for Transport, Storage, Optimal Operating and Storage Conditions in the Tender response at Appendix 2 to Annex B of DEFFORM47.</p>
<p>19b</p>	<p>Transportation</p>	<p>Equipment shall be capable of being transported by air in un-pressurised compartments, by rail or by road without sustaining damage to equipment or prejudicing safety. (Refer to Line Item 17).</p>	<p>Provide confirmation that the equipment is transportable by all methods stated. Confirmation of compliance and supporting evidence to be provided in Appendix 2 to Annex B of DEFFORM 47.</p>
<p>20</p>	<p>User Instruction Manual</p>	<p>The Contractor shall supply a User Instruction Manual for training purposes for DSEME (Defence School of Electrical and Mechanical Engineering) Armourers Wing for subsequent CT40 armourer training courses.</p>	<p>Delivery of a User Instruction Manual</p> <p>Electronic version is the minimum requirement.</p>

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		It is the intent of the Authority to print the electronic version of the User Instruction Manual whenever required for distribution to end-users, or external third parties, if required.	Confirmation of compliance and supporting evidence to be provided in Appendix 2 to Annex B of DEFFORM 47.
21	Warranty	Provision of warranty period of at least 12 months.	<p>Evidence of warranty period and details of length and level of cover being offered.</p> <p>Confirmation of 12-month warranty is the minimum requirement.</p> <p>Confirmation of compliance and supporting evidence to be provided in Appendix 2 to Annex B of DEFFORM 47.</p>

ANNEX 1: DELIVERY SCHEDULE OF EQUIPMENT	
FINANCIAL YEAR (Apr-Mar)	QTY
2022/2023	16