

26th February 2021

Our reference QINETIQ/21/00695

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Request for Information - Multi-Spectral Targets

1 Request for Information

1.1 Background

1.1.1 This letter covers a Request for Information (RFI) for a study that is being conducted by QinetiQ Group Canada Inc. ("QinetiQ") for the Department of National Defence (DND) concerning considerations for air range modernization. Information is requested from suppliers of associated products or services.

1.1.2 QinetiQ, under contract to DND is currently exploring areas of improvement for Operational Training Infrastructure (OTI) around DND Training sites. In order to progress the program, industry is being invited to provide information of a general nature regarding capability, products and costs for supply of OTI services or products where OTI modernization may be a need or priority.

1.2 Key Notes To Industry

1.2.1 This information request is not a commitment to any current or future contract for services or products on the behalf of Canada, DND or QinetiQ. Neither is it intended to imply any future procurement will take place. It is limited to providing product or service intelligence (whichever may be applicable) to understand if a procurement lifecycle could be readily achieved in the future. Any costs incurred by your organisation in reviewing this request letter, preparing for and providing a response shall be at your sole risk.

1.2.2 Any information provided by any supplier may be shared with Canada and QinetiQ's affiliates for the purposes of the Canadian Range Modernization Study, under DND Contract W6431-19LC01/002/TOR.

1.2.3 Any sharing with Canada of received information from interested parties or clarifications related thereto will be managed by QinetiQ and interested parties are explicitly requested not to contact Canada, including DND and PSPC, directly relative to this request.

1.2.4 QinetiQ may respond to information received with questions to clarify aspects of supplied information.

2 Request for Information - Instructions

2.1 Suppliers responding to this request (responders) are asked to provide the following information:

- Business Address;
- Contact Details;
- Short statement stating area of interest;
- Short Statement of scope of potential supply of goods or services;
- Indicative compliance statement against requirement herein.

2.2 Responses to this request should be supplied by email to Madison.Aubry@qinetiq.ca by the 23rd March 2021 in order to be considered in the formulation of the study response.

2.3 Responders are also requested to provide a description of the proposed solution, addressing the key requirements in Section 3 below.

3 Details of Multi-Spectral Targets

3.1 There may be a need for Multi-Spectral Targets that provide representative characteristics of modern real world threats, in particular Surface to Air Missile Systems or Armoured Vehicles. These real world threats may often be mobile armoured vehicles comprising of command and control units, radars and missile batteries. The targets or target sets would need to be representative in:

- Form – Representative in shape, size, colour and layout;
- Radar Cross Sectional Area – Representative in m²;
- Thermally – Representative;

3.2 It is desirable that Multi-Spectral Targets or Target Sets be easily transportable by Air, Road and Sea.

3.3 The Multi-Spectral Targets must be mobile and be able to be set up within 6 hours prior to any activity, be recoverable and ready to move within 6 hours after activity completion.

3.4 The Multi-Spectral Targets must be able to work in an austere environment:

- -40°C to +40°C (Operating Ambient Temperature Range)
- -55°C to +45°C (Non-Operating Ambient Temperature Range)

3.5 The Multi-Spectral Targets must be able to be representative in a variety of weather conditions including rain, sleet and snow.

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- 3.6 The Multi-Spectral Targets must be able to withstand sustained wind speeds of 35 Knots (40.3 Miles Per Hour) and gusts of 45 Knots (51.8 Miles Per Hour).
- 3.7 After set up, the Multi-Spectral Targets would need to operate autonomously for a minimum period of 72 hours.
- 3.8 The use of renewable energy to electrically power the Multi-Spectral Targets would be desirable, in line with DND commitment to the improving energy efficiency and reducing environmental impact and risks.
- 3.9 The solution should describe the materials used or design characteristics that contribute to protecting the environment (e.g. vegetable oil in motors, bio-degradable paints etc).

4 **Points of Contact**

- 4.1 Responders wishing to brief on capability can do so on request to, kirk.soroka@qinetiq.ca.
- 4.2 RFI responses should be sent to: Madison.Aubry@qinetiq.ca We thank you in advance for your consideration of this request.

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