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Associated Components: [Order](#)

Document Request List: N/A

Virtual Range for Advanced Plateform Protection (VRAPP) - Technology Demonstration Project

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Header

Reference Number	PW-\$QCL-017-12662
Solicitation Number	W7701-073307/A
Organization Name	Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada
Source ID	FD.DP.QC.10077.C2
Associated Components	Yes

Dates

Published	2010-04-05
Revised	
Closing	2010-05-06 02:00 PM Eastern Standard Time EST

Details

Category	Research and Development (R&D)
GSINS	AD917700: MILITARY
Region of Delivery	Quebec
Region of Opportunity	
Agreement Type	Agreement on Internal Trade (AIT)
Tender Type	Notice of Proposed Procurement (NPP)
Estimated Value	
Solicitation Method	

Notice Description

Virtual Range for Advanced Plateform Protection (VRAPP) - Technology Demonstration Project

Trade Agreement: Agreement on Internal Trade (AIT)
 Tendering Procedures: The bidder must supply Canadian goods and/or services
 Attachment: None
 Competitive Procurement Strategy: Best Overall Proposal
 Comprehensive Land Claim Agreement: No
 Nature of Requirements:
 Title

Virtual Range for Advanced Platform Protection (VRAPP) - Technology Demonstration Project

Background:

Electro-optic (EO) based weapons systems represent dangerous and rapidly proliferating threats that land, air and sea platforms are facing. These threats will undoubtedly continue to be of primary concern for years to come since an increasing number of

these systems, of both known and new generation designs, are being deployed. The increasing complexity, variability and diversity of EO threats are prominent challenges currently facing countermeasure designers.

Equipping a platform with a self-protection system does not systematically ensure that it is adequately protected against emerging, and even conventional, threats. Indeed, to be effective, a self-protection system must be triggered by a warning system and activate an appropriate countermeasure sequence. Moreover, the adequate employment of a self-protection system is dependent on the platform to be protected, the conditions of the engagement and the threat.

Therefore, the development of countermeasure techniques and their employment against EO threats requires a robust capability that must include: experimental tools for conducting efficient analysis; engineering processes to ensure consistency in the results; and a Verification and Validation (V&V) process to provide the required level of detail.

As an answer to this requirement, DRDC Valcartier initiated the VRAPP Technology Demonstration Project (TDP) that aims, in particular, at providing a virtual demonstration capacity for the analysis and development of self-protection means against known and foreseen EO threat systems. Practically, the VRAPP TDP will demonstrate a comprehensive and thorough approach for addressing EO warfare engineering and training issues including the integration of existing virtual, live and hybrid simulation systems involving a synthetic environment. Work will also be carried out to define integrated engineering processes driving the development of EO countermeasure techniques, as well as a rigorous V&V methodology.

Additional information:

The organization for which the services are to be rendered is Defence Research and Development Canada - Valcartier (DRDC - Valcartier).

The period of the Contract is from date of Contract to March 31, 2014 inclusive.

The work is to be carried out on site at Defence Research and Development Canada - Valcartier, located at 2459 Pie-XI Blvd North, Quebec City, Quebec.

Defence Research and Development Canada - Valcartier has determined that any intellectual property rights arising from the performance of the Work under the resulting contract will belong to Canada.

The contract issued will be a task authorization contract. The maximum contract value is \$3,545,000.00 and the minimum contract value is 10 percent of the maximum contract value.

The requirement is subject to the provisions of the Agreement on Internal Trade (AIT).

The requirement is limited to Canadian goods and/or services.

This procurement is subject to the Controlled Goods Program.
Delivery Date: Above-mentioned

The Crown retains the right to negotiate with suppliers on any procurement.

Documents may be submitted in either official language of Canada.

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Preview Associated Components

Item	Description	Language	No. of Pages	Format	No. of Files	File Size	Additional Information
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