

REQUEST FOR INFORMATION

Ministry of Defence of Republic of Latvia

1.0 Description

1.1 The Ministry of Defence of the Republic of Latvia (MoD) is issuing this Request for Information (RFI) in order to seek information from industry to identify potential sources and products for providing Remotely Operated Vehicle (ROV) systems for sea mine identification and neutralization for National Armed Forces (NAF).

1.2 THIS IS NOT A SOLICITATION FOR PROPOSALS. THIS IS A REQUEST FOR INFORMATION (RFI) ONLY. This RFI is for planning and informational purposes only and shall not be considered as a request for proposal or as an obligation on the part of the Government to acquire any products or services. No entitlement to payment of direct or indirect costs or charges by the MoD will arise as a result of contractor submission of responses to this RFI or the MoD's use of such information. MoD reserves the right to reject, in whole or in part, any contractor's input resulting from this RFI. No contract will be awarded from this RFI. Data submitted in response to this RFI will not be returned. Information is being requested as a part of the process to identify the possible all systems for the National Armed Forces.

2.0 Statement of Objectives

The objective of this process is to assess current availabilities of products and capabilities within the industry.

MoD is looking for ROV systems for sea mine identification and neutralization that could be introduced into service in the NAF on IMANTA Class Mine Countermeasures Vessels (MCMV).

This information will be used to:

- a) Determine the available industry product and customer service support portfolio.
- b) Identify feasible and alternative solutions and possible combinations regarding ROV systems for sea mine identification and neutralization. Determine the approximate/relative cost information (given complexity) for each proposed solution.

General requirements:

- a) The system should provide underwater object visual identification possibility by using video equipment up to sea depth 200m;
- b) The system should provide mine or UXO neutralization possibility by damaging mine or mine sensors using small amount of explosive up to sea depth 200m;
- c) The system should be easy to install on-board IMANTA Class MCMV;
- d) The system should be composed of:
 - Recoverable self-propelled ROV for underwater contact identification guided by human operator via fibre optic cable. Totally 2 vehicles per system;
 - Self-propelled ROV with shaped charge for mine neutralization (Combat vehicle), guided by human operator via fibre Optic cable. At least 10 vehicles per system;
 - Vehicles Command and Control unit;
 - Vehicles Launch and Recovery unit.
- e) Recoverable Self – Propelled ROV:
 - Weight not more than 70 kg, length not more than 1700 mm;
 - Operated at least in two modes : manual and automatic;

- Sensors : colour video camera and dual frequency sonar;
 - Endurance (underwater mission timeframe) in the water at least 1 hour;
 - Operational range: at least 1000m from launched platform;
 - Sustainment between planned maintenances at least 75 launch recover cycle;
 - Meet STANAG 1364 requirements.
- f) Remotely operated Self – Propelled no recoverable vehicles with shaped charge (combat vehicle):
- Weight not more than 70 kg, length not more than 1700 mm;
 - Operated at least in two modes : manual and automatic;
 - Sensors : video camera and dual frequency sonar;
 - Endurance in the water at least 1 hour;
 - Operational range: at least 1000m from launched platform;
 - Meet STANAG 1364 requirements;
 - Shaped charge weight not less than 3.0 kg TNT equivalent;
 - Vehicle shelf life at least 10 years.
- g) Vehicles command and control units provide execution of phases:
- Mission planning;
 - Pre-run (before mission);
 - Launch;
 - Transit to underwater object;
 - Identification or neutralisation;
 - Return transit for recoverable vehicles;
 - Recovery;
 - Post- mission analysis.
- h) The system should be operated by day and night under sea conditions:
- Air temperature - 20°C to +50 °C;
 - Water temperature -1°C (no ice) to +35°C;
 - Sea state up to 4.
- i) The system components should have ability to change platform (MCMV Imanta Class) within 24 hours without transportation time and after reinstallation be fully operable:
- Platform is able to carry as minimum two remotely operated Self – Propelled recoverable vehicles and 10 Remotely Operated Self – Propelled non recoverable combat vehicles;
 - All platforms should have interoperable internal C2 (Combat System or Command Control system that is based on an open, modular architecture to ensure effective management of the most complex operations) with *IMANTA Class MCMV* Mine Counter Measure Management System.
- j) The system should operate independently and under Mine Hunting system MCUBE circumstance:
- “Master” command and control functions;
 - “Slave” command and control functions.

3.0 Responses

3.1 Responses to this RFI should be written in ENGLISH. Responses to this RFI should include proposals with different platform configurations based on general requirements mentioned above. Responses to this RFI should contain the following information:

- a) Capability statement which includes information in details on:
- Technical details (system components dimension, weight, and etc., sensors technical data);
 - Tactical details (operation range, endurance in the water, water depth and etc.);
 - System technical and operation documentations and training;

- Maintenance and test equipment;
- Preferred an initial stock of spare parts for one system.

b) Costing information:

- System cost including installation and training in operation;
- Price for one Remotely Operated Self-propelled no recoverable vehicle with shaped charge (Combat vehicle).

Complementary information:

- Maintenance and sustainment concept;
- Maintenance and service support in Latvian Navy MCM equipment maintenance workshops, cooperation possibilities, local contractor;
- Additional information if necessary.

3.2 Responses are due by 20th April 2018. Both e-mail and mail submittals will be accepted. Please send e-mail response to the kanceleja@mod.gov.lv. Mailed responses should be sent to: **Ministry of Defence of Republic of Latvia, K.Valdemāra Str. 10/12, Rīga, Latvia, LV-1473**. Please mark e-mails and letters with the words "RFI Remotely Operated Vehicle (ROV)".