



REQUEST FOR INFORMATION (RFI)

«New Electromagnetic Measuring Range for Maritime Units»

Contents

1 Introduction.....	3
1.1 ABOUT THIS RFI	3
2 Requested Technical Information.....	3
2.1 MINIMUM TECHNICAL REQUIREMENTS TO THE SYSTEM	3
2.1.1 Measuring capability	3
2.1.2 Analysis capability	3
2.1.3 System architecture and security	3
2.2 DESIGN FEATURES.....	4
2.3 INSTALLATION SUPPORT	4
3 Requested technical information for items	4
4 Requested commercial information	4
4.1 PRICE INFORMATION	4
4.2 DELIVERY	5
4.3 OTHER COMMERCIAL INFORMATION.....	5
5 Information Date	5
6 Administrative Regulations	5
7 Point of Contact (POC).....	6
All communication shall be addressed to:	6

1 Introduction

The Norwegian Defence Materiel Agency (NDMA) is responsible for the procurement of equipment to the Armed Forces of Norway.

NDMA is in the process of starting a project to procure a new measuring range with two measuring lanes for underwater signatures for submarines and surface vessels. The range shall support the signature concept of the current conventional steel hull submarines, future submarines with nonmagnetic hulls and surface ships.

In this matter, we are looking into different courses of action (CoA).

The system will be permanently installed in a prepared area already used as a naval measurement range.

1.1 About this RFI

In this Request for Information (RFI) we ask for information from potential suppliers in the market. The Information we receive will be used as guidance for a potential future competition.

This Request for information (RFI) is directed to Original Equipment Manufacturers (OEM) only.

The main objective of this RFI is to provide NDMA with more knowledge of performance, price and lead-time for delivery, including any export restrictions.

2 Requested Technical Information

The scope of the procurement is a complete system with sensors, cables, acquisition electronics and computer hardware together with necessary sub systems and software to measure, analyse signatures and calibrate degaussing systems. Distance from range house to subsea range will be app 1500m. The system is intended to be in service for 30+ years.

2.1 Minimum Technical Requirements to the System

2.1.1 Measuring capability

The system shall measure pressure, Static Magnetic (SM), Static Electric (SE), Alternating Magnetic (AM) and Alternating Electric (AE) signatures of the vessels being ranged as well as sensor depth.

The measuring bandwidth of the magnetic and electric sensors shall be at least 0 – 1kHz.

Measurement bandwidth of the pressure sensor shall be at least 0 – 20 Hz. Nominal depth for the sensors is 13m on the shallow range and 20m on the deep range.

The complete system includes all hardware and instrumentation for collection, processing and storage of the measured data. The complete system also includes necessary auxiliary systems such as, but not limited to, vessel tracking and logging of environmental data to ensure precise and accurate measurements.

2.1.2 Analysis capability

The system should provide the operator with, or facilitate for, tools for analysis and prediction of the measured signatures, threat analysis, and tools for calibration of degaussing systems.

2.1.3 System architecture and security

The system shall be accredited Secret (HEMMELIG) according to Norwegian Security Act with regulations (Lov om nasjonal sikkerhet med forskrifter).

A key feature for the security solution is secure gateways between domains of the high classified system and the low classified sensor and auxiliary systems. As such, the security features shall have properties which ensure that necessary time synchronization and bandwidth requirements are upheld. Note that separation of sensor data and metadata before transferring to the secure domain is important, because consolidation of this data increases its value.

The hardware running the analysis tools and all data storage shall be placed in a secure technical room. Access for the operator shall be via KVM solution in adjacent control room.

2.2 Design Features

From a user and maintainers point of view, a certain degree of modularity in both hardware and sensor design facilitates improved maintainability and upgradability. In this way, replacement of specific faulty influence sensors, or the replacement of all sensors for a specific influence could take place without having to remove, rebuild and re-design the entire sensor package. The supplier is requested to state how many more sensors can be connected before the capacity of the system is saturated.

2.3 Installation support

The following preparations will be in place before installation of the range system and support is not required according to present estimates:

- Modifications to buildings that will house range control and analysis facility
- Laying of necessary cables from range control to underwater junction boxes. Suppliers may include the appx. 1500m of cable in their RFI answers.
- Laying down and precise positioning and measurements of underwater sensor foundations

NDMA estimate the following need for support during the installation of the new measuring range:

- Placing, connecting and positioning underwater sensors and junction boxes
- Set up and installation of computers for range control and analysis
- Testing and verification of the installed system

3 Requested technical information for items

- If available, please provide relevant technical specifications and description of the following:
 - Security Solution
 - Underwater system
 - Control Station Hardware
 - Software to measure, analyse signatures and calibrate degaussing systems
 - Tracking system
 - Mounting fundament for sensors

4 Requested commercial information

4.1 Price information

Kindly state your budgetary prices for the following quantities:

Description	Qty	Price estimate
The underwater system (Sensors, cables, junction box etc.)	Alt 1: 7 + 7 sensors Alt 2: 9 + 9 sensors (Each «sensor» shall be a sensor package that contains all the measurement capabilities as stated in 2.1.1)	

Control Station Hardware	1	
Software for control, sensor test/calibration, data acquisition and storage. As an option to a range control/operation software, the supplier could provide one or more .NET DLLs providing all required functions for configuration, testing, control and data acquisition.	1	
Software to analyse signatures and calibrate degaussing systems	1	
Tracking System	1	
Installation support (Specify minimum necessary personnel and duration)	As recommended	
Documentation, user- and maintenance manual	1	
Training Courses operator and maintenance	1	
Recommended accessories and maintenance equipment (list/ specify if possible)	As recommended	
Recommended spare parts for 2 years (list/ specify if possible)	As recommended	
FOTS agreement	As recommended	

4.2 Delivery

Please state estimated lead-time from contract award until delivery DAP Herdla Measurement station, Askoe, Norway.

4.3 Other commercial information

Please provide the following information:

- Description of your Quality Management System
- Standard warranty terms for the listed materiel.
- If export of equipment or associated information is subject to special regulations, this must be stated. If for the same reason any requested information is being withheld from NDMA, this must also be stated.
- References for systems of comparable specifications in service today, Point of Contacts etc.
- Please inform whether your company intends to engage/ have a Norwegian firm or contact person as your representative in Norway.

5 Information Date

The requested information shall be sent in Merccell as soon as possible and not later than 29th of May 2026.

6 Administrative Regulations

The following administrative regulations shall apply:

- The requested information will only be used for internal purposes in NDMA / Norwegian Armed Forces and will not be made available to any third party.

- The prices will not be binding for your company.
- Neither the Request for Information, nor the submission of the information, shall in any way commit the NDMA to enter into a contract with your company, or involve NDMA in any financial commitments. NDMA will not under any circumstances refund your company any of the costs arising from providing the requested information.

7 Point of Contact (POC)

All communication shall be addressed to:

Commercial POC	Sandra Knudsen
Telephone	+47 55503076
Mobile phone	+47 45266716
E-mail	sanknudsen@mil.no

All written communication shall be in either the Norwegian or English language.