Statement of Requirement (SoR)

Reference Number	**1000168772**
Version Number	**4**
Date	**14/12/2021**

1.	**Requirement**
1.1	**Title**
	Greensea Training Simulator Systems
1.2	**Summary**
	Dstl is conducting R&D for the Royal Navy to deliver a concept demonstrator to locate, neutralise and recover sea mines using a remote operated vehicle (ROV). The concept demonstrator requires many discrete systems. This requirement is for the training system for the ROV operating system software.

1.3	**Background**

	The Mine Investigation and Exploitation by Remote Operated Vehicle (MIE ROV) Project is developing a proof of concept demonstrator that will locate, neutralise and recover unexploded ordnance from the sea bed. In order to reduce the danger to divers, this proof of concept will use ROVs and Remote Controlled Surface Platforms (RCSP) to allow the dangerous operations to be executed remotely. Achieving and maintaining the capability for this dangerous mission will require ongoing training. Live training is expensive and time-consuming although is ultimately best. However synthetic training, using a desktop system, is highly effective at developing an understanding of how the system works and responds. It is cost effective and can be conducted quickly at any time of day or night and can enable and maintain a high-level of operator proficiency. Two training and simulation systems will be required, one for Dstl and one for the customer who will be conducting trials for Dstl.

1.4	**Requirement**

	Dstl require:
	
	• A training and simulation system (Note two systems are required, one for Dstl and one for the customer) for the VideoRay Defender ROV and Greensea EOD Workspace software that:
	  ○ Interfaces with the VideoRay Defender Control Console to allow the ROV operator (pupil) to control the emulation and train using the standard GUI and hand controls.
	  ○ Provides a training / administrator system to allow the instructor to set up various scenarios for the pupil. The emulation is to allow for different targets and locations, water depth, visibility and current (strength and direction).

1.5	**Options or follow on work**
	None.
1.6	**Deliverables & Intellectual Property Rights (IPR)**
	All items are COTS. The IPR belongs to the OEMs.

1.7	**Standard Deliverable Acceptance Criteria**
	The items are both COTS. They will be checked on receipt for damage and then tested for correct operation. As they are under warranty the OEM will be contacted if they are found to be faulty and a replacement requested.
1.8	**Specific Deliverable Acceptance Criteria**
	There are no specific deliverable acceptance criteria.

2.	**Quality Control and Assurance**
2.1	**Quality Control and Quality Assurance processes and standards that must be met by the contractor**
	☐ **ISO9001** (Quality Management Systems) ☐ **ISO14001** (Environment Management Systems) ☐ **ISO12207** (Systems and software engineering — software life cycle) ☐ **TickITPlus** (Integrated approach to software and IT development) ☒ **Other:** (Please specify below) None.
2.2	**Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement**
	No specific Safety, Environmental, Social, Ethical, Regulatory or Legislative requirements.

3.	Security	
3.1	Highest security classification	
	Of the work	OFFICIAL
	Of the Deliverables/ Output	OFFICIAL
3.2	Security Aspects Letter (SAL)	
	Not applicable	
3.3	Cyber Risk Level	
	Not applicable	
3.4	Cyber Risk Assessment (RA) Reference	
	963149814	

4.	Government Furnished Assets (GFA)
GFA to be Issued -	No

5.	Proposal Evaluation criteria
5.1	Technical Evaluation Criteria
	The required systems are COTS and have already been evaluated by the Dstl team.
5.2	Commercial Evaluation Criteria
	The items are COTS. No Commercial Evaluation is required.