

Statement of Requirement (SoR)

Reference Number	RQ0000011083
Version Number	4
Date	03/11/2022

1.	Requirement
1.1	Title
	RCSP Winch
1.2	Summary
	Dstl requires a winch that can be fitted to a remote controlled surface platform that will enable it to lift items with a mass of up to 1000kg from the sea bed at up to 200m depth.
1.3	Background
	<p>Dstl has an ongoing project to determine if an underwater remote operated vehicle (ROV) and a remote controlled surface platform (RCSP) can be used to raise unexploded ordnance (UXO) from the sea bed. The UXO can have a mass of up to 1000kg. The RCSP will be fitted with a Government Furnished Equipment (GFE) winch (this requirement) which must be able raise the 1000kg load with a safety factor to 1400kg to allow for any breakout forces when the UXO is lifted off the seabed. The RCSP will also need to be able to cope with a transitory load of up to 1400kg. The ROV will attach the winch line to the UXO which will then be raised to within 3m of the RCSP. The winch line will then be locked off to reduce strain on the winch mechanism. The RCSP will then transport the UXO to a safe area for disposal. The RCSP will be within sight of a crewed support vessel at all times.</p>

1.4	Requirement																																		
	<p>Dstl requires a winch that meets the following requirements:</p> <table> <tr> <th>Requirement</th><th>Key, Essential, Desirable</th></tr> <tr> <td>Must be able to lift 1 Ton payload plus 0.4 Ton safety factor</td><td>Key</td></tr> <tr> <td>Must include 250m of pre-stretched synthetic winch line (suitable for >1.4 Ton lift capacity)</td><td>Key</td></tr> <tr> <td>Must have an auto spool guide for the winch line</td><td>Key</td></tr> <tr> <td>Must have a remote control capability able to be integrated with the command control on the Remote Controlled Surface Platform command and control system</td><td>Key</td></tr> <tr> <td>Must be able to operate from a 12v or 24v d.c. power source</td><td>Key</td></tr> <tr> <td>Shall be able to be broken down into man-portable (50kg or less) components for transport and assembly</td><td>Essential</td></tr> <tr> <td>Shall have a remotely controllable hard lock on the winch line, with a heave capability of 1.4 Tons</td><td>Essential</td></tr> <tr> <td>Shall be able to be operated in a sea state 2 environment. Be IP66 rated and be able to withstand salt-water spray.</td><td>Essential</td></tr> <tr> <td>Shall have constant load (or system to control winch-line deployment) built in</td><td>Essential</td></tr> <tr> <td>Size of the winch shall be less than or equal to 750x750x750mm</td><td>Essential</td></tr> <tr> <td>Overall weight shall be less than 200kg</td><td>Essential</td></tr> <tr> <td>Operating temperatures shall be within -20 deg C to +50 deg C.</td><td>Essential</td></tr> <tr> <td>Shall be certified as lifting equipment (LOLER)</td><td>Essential</td></tr> <tr> <td>Shall be delivered before 31st March 2023.</td><td>Essential</td></tr> <tr> <td>Have a remotely operated cut off device for releasing the line if caught or in an emergency</td><td>Desirable</td></tr> <tr> <td>Have a load cell for measuring weight being lifted that can be integrated with the RCSP C2 system</td><td>Desirable</td></tr> </table>	Requirement	Key, Essential, Desirable	Must be able to lift 1 Ton payload plus 0.4 Ton safety factor	Key	Must include 250m of pre-stretched synthetic winch line (suitable for >1.4 Ton lift capacity)	Key	Must have an auto spool guide for the winch line	Key	Must have a remote control capability able to be integrated with the command control on the Remote Controlled Surface Platform command and control system	Key	Must be able to operate from a 12v or 24v d.c. power source	Key	Shall be able to be broken down into man-portable (50kg or less) components for transport and assembly	Essential	Shall have a remotely controllable hard lock on the winch line, with a heave capability of 1.4 Tons	Essential	Shall be able to be operated in a sea state 2 environment. Be IP66 rated and be able to withstand salt-water spray.	Essential	Shall have constant load (or system to control winch-line deployment) built in	Essential	Size of the winch shall be less than or equal to 750x750x750mm	Essential	Overall weight shall be less than 200kg	Essential	Operating temperatures shall be within -20 deg C to +50 deg C.	Essential	Shall be certified as lifting equipment (LOLER)	Essential	Shall be delivered before 31 st March 2023.	Essential	Have a remotely operated cut off device for releasing the line if caught or in an emergency	Desirable	Have a load cell for measuring weight being lifted that can be integrated with the RCSP C2 system	Desirable
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	Have the capability of having a manual control for local testing and maintenance	Desirable
	Have the capability for a pay-out control for setting how much line is to go out and in (integrated with the RCSP C2 system)	Desirable
	Have the capability for feedback on how much line is out (integrated with the RCSP C2 system)	Desirable
	Shall Weigh 50kg or less in total	Desirable
	Size of the winch shall be less than or equal to 550x550x550mm	Desirable
	Operating temperatures shall be within -30 deg C to +50 deg C.	Desirable
	Have the capability of Active heave built in	Desirable
1.5	Options or follow on work	
	<p>The Authority requires that our personnel have sufficient information and guidance to become expert operators of the winch. Ideally the operating manuals will provide sufficient information to enable this however please also provide a costed option for an operator training session.</p> <p>This operator training session should coincide with delivery of the winch (within a month of installation). This needs to be practical, in-person training, suitable for four Dstl staff to attend, and last for up to 1 day (including, but not limited to: operation and maintenance of the winch).</p>	

1.6 Deliverables & Intellectual Property Rights (IPR)							
Ref.	Title	Due by	Format	TRL *	Expected classification (subject to change)	What information is required in the deliverable	IPR DEFCON/ Condition
D-1	Winch	3 Months from contract award	Hardware	9	Unclassified	None (see D2 for manual)	N/A
D -2	Winch Operating Manual	With delivery of winch	PDF document	NA	Unclassified	<ul style="list-style-type: none"> Description of Winch including specifications and performance Installation instructions Operating Instructions Maintenance instructions List of spares 	N/A
D-3	Technical support	For one year from delivery of winch	Telephone or email	NA	Unclassified	Technical support as required.	N/A

***Technology Readiness Level required**

1.7	Standard Deliverable Acceptance Criteria
	COTS/MOTS item. This will be checked on receipt for damage and tested for correct operation.
1.8	Specific Deliverable Acceptance Criteria
	Acceptance will be based on our requirements in 1.4 above.

2.	Quality Control and Assurance
2.1	Quality Control and Quality Assurance processes and standards that must be met by the contractor
	<input type="checkbox"/> ISO9001 (Quality Management Systems) <input type="checkbox"/> ISO14001 (Environment Management Systems) <input type="checkbox"/> ISO12207 (Systems and software engineering — software life cycle) <input type="checkbox"/> TickITPlus (Integrated approach to software and IT development) <input checked="" type="checkbox"/> Other: (Please specify below) CE (or UK equivalent) approved.
2.2	Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement
	N/A

3.	Security	
3.1	Highest security classification	
	Of the work	UNCLASSIFIED
	Of the Deliverables/ Output	UNCLASSIFIED
3.2	Security Aspects Letter (SAL)	
	Not applicable	
3.3	Cyber Risk Level	
	Not applicable	
3.4	Cyber Risk Assessment (RA) Reference	
	RAR-169388475	

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

5. Proposal Evaluation criteria

Please submit two versions of your proposal. The Technical proposal should not contain any pricing information. The Commercial version should be a full response to the ITT including both Technical and pricing information. Page limit for each proposal: 10 pages including drawings and technical data, minimum font size: 10 point.

This requirement will be competed and awarded on the basis of the Value for Money Index (VFM Index) evaluating Technical compliance and Price using a lowest price per technical point scored. This will be ascertained by dividing each bidder's quoted price by their own final moderated technical score. Costed options will not be included within the technical or cost scores.

Tender	Technical Score	Cost (£)	Price per technical point	Rank
A	320	50,000	£156.25	2
B	280	30,000	£107.14	1
C	240	45,000	£187.50	3

The supplier with a fully commercially compliant proposal, with the lowest price per technical point (to 2 decimal places) will be the winning tenderer, subject to available funding. In the event of a tie between tenders having achieved exactly the same price per technical point, precedence shall be given to the tender that has achieved the highest overall technically weighted score.

DSTL reserves the right to fail a tender exceeding the unrevealed limit on grounds of unaffordability.

Tenders will be technically evaluated using the criteria supplied in Annex A. The maximum technical score is 325, the minimum score is 0.

Failure to achieve all of the key criteria will result in the tender being assessed as technically non-compliant and being excluded from the competition.

5.1	Technical Evaluation Criteria								
	The Dstl project team will evaluate the proposals against the requirements set out above using the scoring system detailed in Annex A.								
5.2	Commercial Evaluation Criteria								
	Expected cost is between £40,000. and £50,000 Ex VAT								
	<table><tr><th>Element</th><th>Requirement</th><th>Weighting</th></tr><tr><td>C1</td><td>Supplier agrees to SC1A terms and conditions</td><td>Pass/Fail</td></tr></table>			Element	Requirement	Weighting	C1	Supplier agrees to SC1A terms and conditions	Pass/Fail
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	<table><tr><th>Mark</th><th>Definition</th></tr><tr><td>Pass</td><td>Fully meets the Authority's requirement. Provision and acceptance of the sub-criteria information in the format requested, which is clear, unambiguous and transparent.</td></tr><tr><td>Fail</td><td>Unacceptable/Nil Return. Tenderer did not respond to the question or the response wholly failed to demonstrate an ability to meet the sub-criteria requirement. Any proposal marked as a Fail will be excluded from the competition.</td></tr></table>			Mark	Definition	Pass	Fully meets the Authority's requirement. Provision and acceptance of the sub-criteria information in the format requested, which is clear, unambiguous and transparent.	Fail	Unacceptable/Nil Return. Tenderer did not respond to the question or the response wholly failed to demonstrate an ability to meet the sub-criteria requirement. Any proposal marked as a Fail will be excluded from the competition.
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Annex A - RCSP Winch Evaluation Matrix for Proposals

Scoring:

Failure to achieve all **key** requirements = proposal is non compliant and shall be excluded from the competition.

Key Requirement	Scoring
Must be able to lift 1 Ton payload plus 0.4 Ton safety factor	Pass / Fail
Must include 250m of pre-stretched synthetic winch line (suitable for >1.4 Ton lift capacity)	Pass / Fail
Must have an auto spool guide for the winch line	Pass / Fail
Must have a remote control capability able to be integrated with the command control on the Remote Controlled Surface Platform command and control system	Pass / Fail
Must be able to operate from a 12v or 24v d.c. power source	Pass / Fail

Technical Scoring:

Exceeds requirement = 5, Complaint = 3, Partially complaint = 1, Non-Compliant = 0

Requirement	Key, Essential, Desirable	Requirement Weighting	Scoring	Weighting x Score	Notes
Shall be able to be broken down into man-portable (50kg or less) components for transport and assembly	Essential	4	5,3,1,0		Solutions to make the winch man-portable will be considered
Shall have a remotely controllable hard lock on the winch line, with a heave capability of 1.4 Tons	Essential	5	5,3,1,0		
Shall be able to be operated in a sea state 2 environment. Be IP66 rated and be able to withstand salt-water spray.	Essential	4	5,3,1,0		
Shall have constant load (or system to control winch-line deployment) built in	Essential	3	5,3,1,0		
Size of the winch shall be less than or equal to 750x750x750mm	Essential	5	5,3,1,0		
Overall weight shall be less than 200kg	Essential	5	5,3,1,0		
Operating temperatures shall be within -20 deg C to +50 deg C.	Essential	4	5,3,1,0		
Shall be certified as lifting equipment (LOLER)	Essential	5	Yes/No		Yes = 5, No = 0
Shall be delivered before 31 st March 2023.	Essential	5	5,3,1,0		
Have a remotely operated cut off device for releasing the line if caught or in an emergency	Desirable	2	Yes/No		Yes = 5, No = 0

Requirement	Key, Essential, Desirable	Requirement Weighting	Scoring	Weighting x Score	Notes
Have a load cell for measuring weight being lifted that can be integrated with the RCSP C2 system	Desirable	3	5,3,1,0		
Have the capability of having a manual control for local testing and maintenance	Desirable	1	5,3,1,0		
Have the capability for a pay-out control for setting how much line is to go out and in (integrated with the RCSP C2 system)	Desirable	2	5,3,1,0		
Have the capability for feedback on how much line is out (integrated with the RCSP C2 system)	Desirable	2	5,3,1,0		
Shall Weigh 50kg or less in total	Desirable	5	5,3,1,0		
Size of the winch shall be less than or equal to 550x550x550mm	Desirable	5	5,3,1,0		
Operating temperatures shall be within -30 deg C to +50 deg C.	Desirable	3	5,3,1,0		
Have the capability of Active heave built in	Desirable	2	5,3,1,0		
Technical Score					HPS = 325

Overall score = system cost / Technical score