Statement of Requirement (SoR)

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| **Reference Number** | **RQ0000028927** |
| **Version Number** | **2** |
| **Date** | **06/02/2023** |

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| **1.** | **Requirement** |
| **1.1** | **Title** |
|  | RCSP Hull Procurement |
| **1.2** | **Summary** |
|  | Dstl is working with the Royal Navy (RN) to ascertain if a remote controlled surface platform (RCSP) could be used to assist the recovery of unexploded ordnance (UXO) from the seabed. The RCSP must be a commercial-off-the-shelf (COTS) or a modified COTS boat.  |
| **1.3** | **Background** |
|  | Dstl is required to deliver a proof of concept (POC) that demonstrates how, by using remote controlled vehicles; an underwater remote operated vehicle (ROV) and a RCSP, UXO can be safely and efficiently recovered from the seabed. The aim is to reduce the risk to RN divers who currently carry out this role. Dstl has already proven that a small, work-class ROV, has the capabilities required and the next phase of the research is to identify a suitable RCSP and develop the final part of the POC. The task of the RCSP will be to raise the UXO to just below the surface once a winch line has been attached to it by the ROV. The RCSP must therefore be able to autonomously ‘hover’ accurately over the UXO’s position. Once the UXO is suspended safely just below the RCSP the latter will transit to a safe area where the UXO can be released and safely disposed of.The RCSP will be equipped with a winch, engines, a power-supply system and a remote control and dynamic position system. This SOR is for the hull of the RCSP. |
| **1.4** | **Requirement** |
|  | Dstl is seeking to procure a proven COTS or modified COTS boat hull that meets the following requirements:

| Ser | Requirement Description | Importance |
| --- | --- | --- |
| K1 | The hull must have a safe load capacity of at least 3000kg. | Key |
| K2 | The hull must fit inside a 20ft ISO container (disassembled or deflated if required). | Key |
| K3 | The hull must have a transom capable of being fitted with two 40kW / 54hp outboard motors | Key |
| K4 | The hull must have a configuration and fittings that will allow three 1.5m x 1m platforms to be secured to the deck | Key |
| K5 | The hull must have a hole at least 30cm in diameter in the centre of the deck to allow passage of the winch cable (the winch will be mounted on one of the platforms) | Key |
| E1 | The hull shall be able to be operated safely in a sea state 3. | Essential |
| E2 | The hull shall be able to be assembled, launched and recovered by a 4-person team from both hard and loose surfaces using manual handling tools and equipment only. | Essential |
| E3 | The system shall operate in air temperatures from -20 deg C to + 50 deg C and sea temperatures from -5 deg C to + 35 deg C  | Essential |
| E4 | The hull must have a shallow draft (less than 1.5m) at maximum all up weight. | Essential |
| D1 | The hull should be coloured matt grey or sea blue | Desirable |

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| **1.5** | **Options or follow on work**  |
|  | Only one RCSP hull will be procured by Dstl. The RN may wish to procure more systems in the future. |

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| **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 | 1 x boat hull (and inflation system if applicable) | 30 Sep 2023 | Hardware | 9 | UNCLASSIFIED | User manuals and any tools required.Specifications including engineering drawings compatible with Solid Works, dimensions (packed / unpacked) and details of platform location / securing system.  | DEFCON 705 |

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| **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. |

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| **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)[x]  **Other:**  (Please specify below) CE or UKCA Certification |
| **2.2**  | **Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement** |
|  | To meet CE or UKCA standards. |

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| **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-818743124  |

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

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| **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. 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.

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| --- | --- | --- | --- | --- |
| Tender | Technical Score | Cost (£) | Price per technical point | Rank |
| A | 145 | 40,000 | £275.86 | 2 |
| B | 195 | 60,000 | £307.69 | 3 |
| C | 210 | 55,000 | £261.90 | 1 |

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 230, the minimum score is 0.A score of 0 in any of the key or essential 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. |

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| **5.2** | **Commercial Evaluation Criteria**  |
|  | Expected cost is between £40,000 and £60,000 Ex VAT

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| **Element** | **Requirement** | **Weighting** |
| **C1** | Supplier agrees to SC1A terms and conditions | Pass/Fail |

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| **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 Hull Procurement Evaluation Matrix for Proposals**

Scoring:

R1 – R5, and R10 Yes = 5, No =0

R6 – R9 Exceeds requirement = 5, Complaint = 3, Partially complaint = 1, Non-Compliant = 0

Failure to achieve a **key or essential** requirement = proposal is non complaint and shall be excluded from the competition.

|  | **Requirement Description** | **Key / Essential / Desirable** | **Requirement Weighting** | **Scoring** | **Weighting x Score** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- |
| R1 | The hull must have a safe load capacity of at least 3000kg. | Key | 5 | Yes/No |  | Yes = 5, No = 0 |
| R2 | The hull must fit inside a 20ft ISO container (disassembled or deflated if required). | Key | 5 | Yes/No |  | Yes = 5, No = 0 |
| R3 | The hull must have a transom capable of being fitted with two 40kW / 54hp outboard motors | Key | 5 | Yes/No |  | Yes = 5, No = 0 |
| R4 | The hull must have a configuration and fittings that will allow three 1.5m x 1m platforms to be secured to the deck | Key | 5 | Yes/No |  | Yes = 5, No = 0 |
| R5 | The hull must have a hole at least 30cm in diameter in the centre of the deck to allow passage of the winch cable (the winch will be mounted on one of the platforms) | Key | 5 | Yes/No |  | Yes = 5, No = 0 |
| R6 | The hull shall be able to be operated safely in a sea state 3. | Essential | 5 | 5,3,1,0 |  | Higher capability = higher score |
| R7 | The hull shall be able to be assembled, launched and recovered by a 4-person team from both hard and loose surfaces using manual handling tools and equipment only. | Essential | 5 | 5,3,1,0 |  | Higher capability = higher score |
| R8 | The system shall operate in air temperatures from -20 deg C to + 50 deg C and sea temperatures from -5 deg C to + 35 deg C  | Essential | 4 | 5,3,1,0 |  | Higher capability = higher score |
| R9 | The hull must have a shallow draft (less than 1.5m) at maximum all up weight. | Essential | 4 | 5,3,1,0 |  | Higher capability = higher score |
| R10 | The hull should be coloured matt grey or sea blue | Desirable | 3 | Yes/No |  | Yes = 5, No = 0 |
|  |  |  |  | Highest Possible Score = | 230 |