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Planning

Rotorcraft Concepts and Tactical Aviation Research

Ministry of Defence (DSTL)

F01: Prior information notice
Prior information only
Notice identifier: 2022/S 000-012313
Procurement identifier (OCID): ocds-h6vhtk-0336b6
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Section I: Contracting authority

I.1) Name and addresses

Ministry of Defence (DSTL)

Fareham

PO17 6AD

Contact

Kate Stokes-Richardson

Email

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Country

United Kingdom

NUTS code

UK - United Kingdom

Internet address(es)

Main address

https://www.gov.uk/government/organisations/defence-science-and-technology-laboratory

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

Ministry or any other national or federal authority

I.5) Main activity

Defence

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Rotorcraft Concepts and Tactical Aviation Research

Reference number

RQ0000009013

II.1.2) Main CPV code

- 73410000 - Military research and technology

II.1.3) Type of contract

Services

II.1.4) Short description

To address the future challenges of operating in complex military environments, there is a need to continue research and development of aviation concepts and technologies as MOD looks forward to replacing a number of existing capabilities in the latter part of the 2030's and beyond. Dstl requires a Delivery Partner to collaborate in the development and maturation of concepts and technologies for future rotorcraft, and tactical aviation in Contested, Degraded and Operationally-limited (CDO) environments. The expectation is that the Delivery Partner construct will consist of a suitable organisation to lead a group of companies in a consortium-based approach to benefit from a broad range of relevant expertise, concepts and technologies across the UK industry base.

II.1.5) Estimated total value

Value excluding VAT: £4,500,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 73110000 - Research services

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

II.2.4) Description of the procurement

In particular, the Delivery Partner will support Dstl to:

• Identify concepts for future rotorcraft systems that will deliver military effect in the land and maritime environments.

• Develop and demonstrate the key novel technologies that enable future rotorcraft concepts to be realised.

• Underpin the understanding of future concepts and novel technologies through analysis and assessment.

• Build on current research to mature and demonstrate technologies required by future tactical aviation to achieve Freedom of Action and Manoeuvre (FoAM) in a CDO environment.

Key areas of potential interest are listed below. This is an indicative list only and is not exhaustive; it is not a commitment that all of the topic areas listed will be exploited, and some additional topics may be identified as the project matures:

• In-cockpit assistance, autonomy, and automation of crew tasks which supports situational awareness, decision making and threat awareness during all phases of flight and while operating singly or in formations.

• The use of automation of tasks to enable a reduction in the number of crew required to operate future generation aircraft.

• Enablers for multi-domain teaming with aviation platforms to deliver find, attack and lift capabilities into the land and maritime environments.

• Communication concepts that enable timely and effective information exchange between platforms and systems into a fused information picture, thus improving battlespace awareness.

• Development of an evaluation environment that enables the integration and combined benefits of key enabling technologies to be demonstrated in a suitably representative CDO environment.

• Future force mixes & equipment to maximise effectiveness and deliver scalable integrated effects.

• Improved operational efficiency and capability resilience through digital engineering methods.

• Use of autonomy in optimising aviation force effectiveness and the people component of the force.

It is intended to conduct an Early Engagement event in mid-2022, hosted by Dstl, to provide an opportunity for interested Industry organisations to gain further information of the requirement and Dstl expectations prior to the formal tendering stage.

II.2.14) Additional information

Additional Information: Suppliers interested in working with the Ministry of Defence should register on the MOD Supplier Information Database (SID) Register, available at www.contracts.mod.uk. The MOD SID is a database of active and potential suppliers available to all MOD and UK Defence procurement personnel, and is the main supplier database of MOD Procurement organisations. Please note: the reg

II.3) Estimated date of publication of contract notice

11 May 2022

Section IV. Procedure

IV.1) Description

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: No