

This is a published notice on the Find a Tender service: <https://www.find-tender.service.gov.uk/Notice/007487-2022>

Award

## **Purchase of Motion Capture Systems for RN Musculoskeletal Injury Mitigation**

Ministry of Defence

F15: Voluntary ex ante transparency notice

Notice identifier: 2022/S 000-007487

Procurement identifier (OCID): ocds-h6vhtk-0323d9

Published 18 March 2022, 10:45pm

### **Section I: Contracting authority/entity**

#### **I.1) Name and addresses**

Ministry of Defence

Portsmouth

#### **Email**

[Hannah.Streatfield100@mod.gov.uk](mailto:Hannah.Streatfield100@mod.gov.uk)

#### **Country**

United Kingdom

#### **NUTS code**

UK - United Kingdom

#### **Internet address(es)**

Main address

<https://www.gov.uk/government/organisations/ministry-of-defence>

**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**

Purchase of Motion Capture Systems for RN Muscoskeletal Injury Mitigation

Reference number

703389450

#### **II.1.2) Main CPV code**

- 31642000 - Electronic detection apparatus

#### **II.1.3) Type of contract**

Supplies

#### **II.1.4) Short description**

Purchase of Motion Capture Systems for RN Muscoskeletal Injury Mitigation

#### **II.1.6) Information about lots**

This contract is divided into lots: No

#### **II.1.7) Total value of the procurement (excluding VAT)**

Value excluding VAT: £245,646

### **II.2) Description**

#### **II.2.3) Place of performance**

NUTS codes

- UK - United Kingdom
- UKJ3 - Hampshire and Isle of Wight

#### **II.2.4) Description of the procurement**

The Royal Navy, part of the UK Ministry of Defence, intends to intend to award a contract with a value of £246,000.00 to Codamotion Ltd to procure 3 in number motion capture

systems. In accordance with the provisions of The Public Procurement (Amendment etc.) (EU Exit) Regulations 2020 SI No. 2020/1319, this procurement falls to be regulated under the provisions of the Public Contracts Regulations 2015 (PCR 2015) as amended (in particular by SI 2020/1319). Prior publication of a contract notice in the Official Journal of the European Union is no longer appropriate. It is considered that the award of the contract without prior publication of a contract notice in the UK e-notification service (in accordance with the relevant legislation) is lawful in accordance with regulation 32(2)(b)(ii) of the PCR 2015 because competition is absent for technical reasons.

Data relating to dynamic military movements (i.e., walking, marching, and running) was captured during a pilot RM Biomechanics Programme (RMBP), using Codamotion motion capture systems with optimised active markers that enable fast data analysis by avoiding any need to manually identify markers after data collection. Dynamic data has been captured at a higher sampling rate (up to 800 Hz) and there is a risk that moving to alternate systems would require a period of qualification and development, with no guarantee that the results produced would be consistent with that previously captured. This equipment and corresponding jig system has been developed and used in partnership with a cadre of seven academic establishments, who are trained in the analysis of data produced by these systems.

Previous work across the RN/ RM (BRNC and CTCRM) pilot has been undertaken with this motion capture system. This work has been ongoing for 20 years and changing to an alternate system would require qualification with no guarantee that the Authority would be able to build on the initial pilot data. Changing to an alternate system could not be achieved without trialling and qualification of systems and modification of jigs. As the Authority wishes to continue the study of MSKI at pace, it considers the uncertainty around qualifying and modifying alternate systems as a risk, with no guarantee that the equipment could be qualified within our timeframe, or that data produced would be consistent with that required to provide the calibration hub as part of the RN MMP's measurement governance and assurance. The Authority considers this an intolerable risk to data integrity and its subsequent analysis. Therefore, the Authority intends to place this contract via a negotiated procedure without prior notice because competition is absent for technical reasons.

### **II.2.11) Information about options**

Options: No

### **II.2.13) Information about European Union Funds**

The procurement is related to a project and/or programme financed by European Union funds: No

---

## Section IV. Procedure

### IV.1) Description

#### IV.1.1) Type of procedure

Negotiated without a prior call for competition

- The products involved are manufactured purely for the purpose of research, experiment, study or development
- The works, supplies or services can be provided only by a particular economic operator for the following reason:
  - absence of competition for technical reasons

Explanation:

The Royal Navy, part of the UK Ministry of Defence, intends to award a contract with a value of £246,000.00 to Codamotion Ltd to procure 3 in number motion capture systems. In accordance with the provisions of The Public Procurement (Amendment etc.) (EU Exit) Regulations 2020 SI No. 2020/1319, this procurement falls to be regulated under the provisions of the Public Contracts Regulations 2015 (PCR 2015) as amended (in particular by SI 2020/1319). Prior publication of a contract notice in the Official Journal of the European Union is no longer appropriate. It is considered that the award of the contract without prior publication of a contract notice in the UK e-notification service (in accordance with the relevant legislation) is lawful in accordance with regulation 32(2)(b)(ii) of the PCR 2015 because competition is absent for technical reasons.

Data relating to dynamic military movements (i.e., walking, marching, and running) was captured during a pilot RM Biomechanics Programme (RMBP), using Codamotion motion capture systems with optimised active markers that enable fast data analysis by avoiding any need to manually identify markers after data collection. Dynamic data has been captured at a higher sampling rate (up to 800 Hz) and there is a risk that moving to alternate systems would require a period of qualification and development, with no guarantee that the results produced would be consistent with that previously captured. This equipment and corresponding jig system has been developed and used in partnership with a cadre of seven academic establishments, who are trained in the analysis of data produced by these systems.

Previous work across the RN/ RM (BRNC and CTCRM) pilot has been undertaken with this motion capture system. This work has been ongoing for 20 years and changing to an alternate system would require qualification with no guarantee that the Authority would be able to build on the initial pilot data. Changing to an alternate system could not be

achieved without trialling and qualification of systems and modification of jigs. As the Authority wishes to continue the study of MSKI at pace, it considers the uncertainty around qualifying and modifying alternate systems as a risk, with no guarantee that the equipment could be qualified within our timeframe, or that data produced would be consistent with that required to provide the calibration hub as part of the RN MMP's measurement governance and assurance. The Authority considers this an intolerable risk to data integrity and its subsequent analysis. Therefore, the Authority intends to place this contract via a negotiated procedure without prior notice because competition is absent for technical reasons.

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

The procurement is covered by the Government Procurement Agreement: No

---

## **Section V. Award of contract/concession**

A contract/lot is awarded: Yes

### **V.2) Award of contract/concession**

#### **V.2.1) Date of conclusion of the contract**

18 March 2022

#### **V.2.2) Information about tenders**

The contract has been awarded to a group of economic operators: No

#### **V.2.3) Name and address of the contractor/concessionaire**

Codamotion Ltd

Leicester

Country

United Kingdom

NUTS code

- UK - United Kingdom

The contractor/concessionaire is an SME

Yes

#### **V.2.4) Information on value of contract/lot/concession (excluding VAT)**

Initial estimated total value of the contract/lot/concession: £245,646

Total value of the contract/lot/concession: £245,646

#### **V.2.5) Information about subcontracting**

The contract/lot/concession is likely to be subcontracted

---

## **Section VI. Complementary information**

### **VI.4) Procedures for review**

#### **VI.4.1) Review body**

Ministry of Defence

Portsmouth

PO2 8By

Country

United Kingdom