Contract

FCG/017 Satellite and Mission Simulator (Contract Award Notice)

Ministry of Defence

F03: Contract award notice
Notice identifier: 2022/S 000-002481
Procurement identifier (OCID): ocds-h6vhtk-03104a
Published 27 January 2022, 10:45pm

Section I: Contracting authority

I.1) Name and addresses

Ministry of Defence

Ministry of Defence, DE&S, Abbey Wood #1261

Bristol

BS34 8JH

Email

Amy.Ford398@mod.gov.uk

Country

United Kingdom

NUTS code

UKK11 - Bristol, City of

Internet address(es)

Main address

https://des.mod.uk

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

FCG/017 Satellite and Mission Simulator (Contract Award Notice)

Reference number

701165385

II.1.2) Main CPV code

- 73410000 - Military research and technology

II.1.3) Type of contract

Services

II.1.4) Short description

FCG/017 Satellite and Mission Simulator

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: £869,900

II.2) Description

II.2.2) Additional CPV code(s)

- 73410000 - Military research and technology

II.2.3) Place of performance

NUTS codes

- UKC - North East (England)

II.2.4) Description of the procurement

Military Research and Technology. On behalf of UK Space Command, Defence Equipment and Support is seeking to procure a modular, event driven fully data representative satellite simulator for use in design, development, integration, test and operation of space segment assets; this will be used in support of the ARTEMIS mission. ARTSIM, as the baseline deliverable, will provide a set of generic default satellite configurations which can be used for the analysis of a range of mission operations and capability objectives. The system must take a flexible, distributed architecture approach, providing for a range of spacecraft components to be simulated to a level of fidelity which can be determined by the team utilising the tool. The system shall utilise high quality GUI and animations to visualise satellite and orbit configurations.MOD require the capability to deploy ARTSIM as a stand-alone software process,running on a single machine, or as a VM deployed on a hypervisor, or as a cloud based application running in a container.Simulation of the satellite systems, subsystems and interfaces in both real-time and simulated time, will provide an operationally ready capability, which is able to represent, as simulation instances, a range of satellite implementations (including constellations), with a full range of orbit configurations. ARTSIM shall enable user(local or remote) control of the simulation including setting parameters and starting/stopping the simulation. ARTSIM shall have a set of default underlying functions, but also enable user definition of system mathematical models including orbit function, satellite function and unit models. ARTSIM shall include interface connectivity functionality, enabling connection to hardware through electrical interfacing to support in the loop testing via a test harness. Software interfacing shall enable connection to external databases, networks or remote control i.e. TT&C databases and external Check-out systems The ARTSIM product shall support the simulation of system level configurations in the different mission phases (off-launcher separation, and solar panel deployment),definition of the reference systems, the functional block diagrams of the satellite,payload and equipment layouts and functional paths.The ARTSIM product shall support the development and understanding of satellite level system budgets including:• mass,• inertial properties,• unit power consumption for all operational modes,• power available in different mission phases.

II.2.5) Award criteria

Quality criterion - Name: Technical / Weighting: 60

Price - Weighting: 40

II.2.11) Information about options

Options: Yes

Description of options

REDACTED

II.2.13) Information about European Union Funds

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

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Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Restricted procedure

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

The procurement is covered by the Government Procurement Agreement: No

IV.2) Administrative information

IV.2.1) Previous publication concerning this procedure

Notice number: 2020/S 248-619194

IV.2.9) Information about termination of call for competition in the form of a prior information notice

The contracting authority will not award any further contracts based on the above prior information notice

Section V. Award of contract

Contract No

701165385

Title

FCG/017 - Satellite and Mission Simulator

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

17 January 2022

V.2.2) Information about tenders

Number of tenders received: 2

Number of tenders received from SMEs: 1

Number of tenders received from tenderers from non-EU Member States: 2

Number of tenders received by electronic means: 2

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

V.2.3) Name and address of the contractor

NORTHERN SPACE & SECURITY LTD

5A, LINNET COURT CAWLEDGE BUSINESS PARK

ALNWICK

NE662GD

Email

dinz.dinsley@norss.co.uk

Country

United Kingdom

NUTS code

- UKC - North East (England)

The contractor is an SME

Yes

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

Initial estimated total value of the contract/lot: £896,900

Total value of the contract/lot: £896,900

Section VI. Complementary information

VI.4) Procedures for review

VI.4.1) Review body

Ministry of Defence

DE&S, Abbey Wood

Bristol

BS34 8JH

Country

United Kingdom