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Planning

## **701578778 - FsAST - AC/DC Power Systems Trainer**

Ministry of Defence

F16: Prior information notice for contracts in the field of defence and security

Notice identifier: 2021/S 000-022098

Procurement identifier (OCID): ocds-h6vhtk-02ddc1

Published 6 September 2021, 10:45pm

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

#### **I.1) Name, addresses and contact point(s)**

Ministry of Defence

FsAST Project Team, Walnut #1219, MOD Abbeywood

Bristol

BS34 8JH

#### **For the attention of**

Julia Fox

#### **Email(s)**

[julia.fox141@mod.gov.uk](mailto:julia.fox141@mod.gov.uk)

#### **Country**

United Kingdom

#### **Further information**

Further information can be obtained from the above mentioned contact point(s)

### **I.2) Type of the contracting authority**

Ministry or any other national or federal authority, including their regional or local subdivisions

### **I.3) Main activity**

Defence

### **I.4) Contract award on behalf of other contracting authorities/entities**

The contracting authority/entity is purchasing on behalf of other contracting authorities/entities:

No

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## **Section II: Object**

### **II.1) Title attributed to the contract by the contracting authority/entity:**

701578778 - FsAST - AC/DC Power Systems Trainer

### **II.2) Type of contract and location of works, place of delivery or of performance**

Supplies

Service category No 3: Defence services, military defence services and civil defence services

### **Main site or location of works, place of delivery or of performance**

School of Army Aeronautical Engineering, Prince Philips Barracks, MOD Lyneham, SN15 4XX

### **NUTS code**

- UKK14 - Swindon

### **II.3) Information on framework agreement**

The notice involves the establishment of a framework agreement: No

#### **II.4) Short description of nature and scope of works or nature and quantity or value of supplies or services**

The training aid is to replace five existing DC PSTs that were built in 1999 and run on DOS based PCs. The requirement is to replace/modernise the current training aid to enable and meet the following:

- Must be capable of demonstrating twin AC and DC aircraft systems
- Ability for the trainer to inject faults into the system so that trainees can identify symptoms of a fault and carry out fault diagnosis
- Ability for trainer to live monitor (snoop) on an individual trainee or group of trainees' activities
- Must be representative of a modern generic twin engine rotary wing aircraft electrical system
- Must have an ability to emulate engine starting/power up
- Must have safe working voltages
- Requires associated suite of Test and Measurement equipment
- Capable of being upgraded easily to maintain currency over time
- Emulation of the hardware for conceptualising the entire system and in component parts
- Emulation for LRU/component replacement after diagnosis
- Ability to fault find to a specific point in a circuit ie broken wire, loose terminal, faulty LRU etc
- Requires in-built systems bite health monitor
- Software must be able to run on a Virtual Learning Environment network solution
- Must be able to virtually fault find using only the software through emulation on a laptop/PC – remote to the training aid

- Software should contain interactive wiring diagrams for the training aid and a suite of associated documentation
- Must be able deliver a fault log for the trainee to reflect on actions taken and errors made
- Ground power connection capable of simulating incorrect phase rotation and frequency

#### Information Requested

Based on the information above, there are key questions the Authority would like information and feedback on:

1. What COTS (Commercial Off-The-Shelf) and/or MOTS (Military Off-The-Shelf) options are available and what are the ROM costs? Costs to include licence/support options
2. What development paths are underway that may meet the requirement?
3. Who holds the Intellectual Property Rights?
4. What options are available for further consideration to meet the requirement with further R&D?

#### Lots

This contract is divided into lots: No

### **II.5) Common procurement vocabulary (CPV)**

- 48518000 - Emulation software package

#### **Additional CPV code(s)**

- 34152000 - Training simulators
- 80650000 - Training and simulation in aircrafts, missiles and spacecrafts

### **II.7) Additional information**

Please note that this is a Request For Information (RFI) only. This request is not a commitment by the Authority to launch a formal procurement process and the requirement, described above, is subject to change, the objective of this RFI is to explore existing solutions available in the market.

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## **Section VI: Complementary information**

### **VI.1) Information about European Union funds**

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

### **VI.2) Additional information**

The Contracting Authority intends to use an e-Tendering system in this procurement exercise, please visit [www.contracts.mod.uk](http://www.contracts.mod.uk) for full details and to register your interest in this procurement.