Serapis Tasking Form

Tasking Form Part 1: *(to be completed by the Authority's Project Manager)*

To:	Lot 3 QinetiQ Plc	From:	The Authority

Any Task placed as a result of your quotation will be subject to the Terms and Conditions of Framework Agreement Number:
LOT 3 DSTL/AGR/SERAPIS/DEC/01

VERSION CONTROL
Version control please ensure this is kept up to date

REQUIREMENT

Proposal Required by:	09/07/2021	Task ID Number:	D21
The Authority Project Manager:	[REDACTED UNDER FOIA EXEMPTION]	The Authority Technical Point of Contact:	[REDACTED UNDER FOIA EXEMPTION]
Task Title:	CUE/Sapient support		
Required Start Date:	01/06/2021	Required End Date:	31/11/2021
Requisition No:	1000165353	Budget Range	~£400k

TASK DESCRIPTION AND SPECIFICATION

Serapis Framework Lot	☐ Lot 1: Collect ☐ Lot 2: Space systems ☒ Lot 3: Decide ☐ Lot 4: Assured information infrastructure ☐ Lot 5: Synthetic environment and simulation ☐ Lot 6: Understand

Background

SAPIENT is a UK government owned standard which enables the devolution of autonomy and intelligent processing from a centralised fusion and sensor C2 node. The SAPIENT framework has been adapted and successfully demonstrated for Base Protection, Counter-Mobility and Counter-UAS. The SAPIENT framework has also been successful applied in complex urban environments. The openly published SAPIENT Interface Control Document (ICD) can be seen here: **link**

SAPIENT is also one of the critical components of the ZODIAC pre-Alpha (henceforth ZPA) demonstrator that will deployed to the Contested Urban Environment (CUE) Experiment (to be hosted in Portsmouth) from 27th September to 15th October 2021. The ZPA deployment at CUE supports a number of Dstl projects including: The Zodiac project, the FUSE project, Counter-UAS project, Future RADAR project, and the SIEI project. ZPA will also be integrating with sensors provided by other nations participating at CUE. It is intended ZPA will be hosted within the Deployable ISR Experimentation Testbed (DIET) ISO container – a deployable laboratory for sensor experimentation.

Prior to CUE there will be an additional trial which is to demonstrate connectivity of some NATO sensors into ZPA. This will be referred to as the SET-256 trial – named after the NATO Working Group. This is scheduled to be run

formally on 27 and 28 September 2021 in parallel with other CUE activities and will require setup support during the week commencing 20th September.

Summary

The Authority requires technical support from **QinetiQ** (as middleware and test harness developer), **Cubica** (as High Level Decision Making Module (HLDMM) developer, and UGV integrator) and **Antillion** (as CUE2021 hardware and network support) for CUE 2021 and at pre-CUE testing during the summer of 2021. This support is expected to include the following general tasks:

1. Hosting and presenting (in collaboration with Dstl) a virtual workshop to assist other CUE nations in integrating their sensors with ZPA
2. Set-up and configuration of ZPA at CUE, and pre-CUE testing
3. Advice on experimental design, serial definition, sensor placement, and understanding ZPA output & performance (Dstl to lead on customer/stakeholder presentation, with contractor support)
4. Fault-finding and bug-fixing of ZPA (where practical and subject to agreement with the Authority)
5. Advice on sensor SAPIENT compatibility with middleware/HLDMM, and sensor deployment
6. Operation of ZPA at CUE and pre-CUE testing in collaboration with Dstl staff (emphasis on management and demonstration of ZPA as a system as a whole)
7. Data management (correct logging of data collected, backing up of data, etc)
8. Training of Dstl staff in the operation of ZPA and basic configuration and fault finding/fixing

The SET-256 trial consists of 3 sensor systems provided by France and Germany, plus a set of other sensors from US/CAN/UK. No more than 15 additional sensors are to be connected.

The Dstl SIEI Project AII10 and its predecessor have provided software which allows other sensor standards, OSUS and MASBUS, to be converted into the SAPIENT protocol and therefore able to pass into SAPIENT. The software also allows command messages to be pass back out of SAPIENT in order to control the sensor where appropriate. All of this software is provided in Virtual Machines (VMs).

To avoid duplication of effort and minimise cost, the Dstl projects utilising ZPA at CUE have agreed to pool their contractor support requirments into a single contract. This tasking form has been structured where possible to break out tasks specific to individual Dstl projects so that these costs can be correctly attributed to the relevant project; where underpinning support is relevant to all Dstl projects, Dstl Project Managers will agree how they split the costs between their projects. An approximate guide to the priorities of each project are listed below:

Project / Task	Virtual Integration Workshop	Set-up & Configuration	Experimental Design	Fault finding & Bug fixing	Sensor compatibility advice	Operation of ZPA	Data Managment	Training of Dstl Staff	UGV Operation
C-UAS	L	H	L	M	L	H	H	L	L
FUSE	H	H	L	M	L	H	H	H	H
Future RADAR	L	H	L	L	H	L	H	L	L
SIEI	L	H	L	M	M	M	H	L	L
ZODIAC	L	H	H	M	L	H	H	L	M

Project Objectives & Deliverables:
Below are the objectives for each of the Dstl projects and what they are expecting contractors to deliver at CUE.

Counter-UAS (C-UAS):
The objectives for the C-UAS project at CUE are:
1. The test and evaluation of (SAPIENT compatible) C-UAS sensors (Supplied by Dstl)
2. Demonstration of C-UAS sensors to stakeholders

FUSE:

The objectives for the FUSE project at CUE are:
1. Delivery of a Virtual Integration Workshop to assist other CUE nations in integrating their sensors with ZPA to be held as soon as reasonably possible after contract start
2. Demonstration of Unmanned Ground Vehicle (UGV) integration with ZPA
3. Quantitative assessment of sensor performance and fusion performance using ground truth collected at CUE (Dstl to conduct the data analysis for this task)
4. Training of Dstl staff enabling them to conduct basic set-up, configuration, operation, and fixing of ZPA
5. Demonstration of integration with sensors from other CUE participants
6. Demonstation of ZPA (SAPIENT) as a concept
7. Demonstration of the DIET as an experimental facility

Future RADAR:

The objectives for the Future RADAR project at CUE are:
1. Demonstration of the LIMPET (SAPIENT compatible) radars as low SWAP-C capability
2. Quantitative assessment of sensor performance – Probability of Detect, False Alarm Rate, Classification accuracy (Dstl to lead)
3. Qualitative demonstration of integration with other sensor systems

SIEI:

The objectives for the SIEI project at CUE are:
1. To demonstrate the integration of non-SAPIENT sensors with ZPA
2. To provide Common Operating Picture tools into CUE

ZODIAC – COSTED OPTION:

The objectives for the ZODIAC project at CUE are:
1. To validate the 'virtual' integration previously conducted with ZPA, but with real, live, sensors and realistic scenarios as offered by CUE
2. To demonstrate ZPA to its customer and other senior UK military stakeholders
3. Demonstration of ZPA integration with sensors from other nations would be a positive, as would integration with new sensors, such as ES.

WP1 – SAPIENT Integration Workshop

The Authority requires technical support from **QinetiQ** (as middleware and test harness developer), **Cubica** (as High Level Decision Making Module (HLDMM) developer, and UGV integrator) and Antillion (as CUE2021 network support) in order to run a SAPIENT/Zodiac (pre-Alpha) Integration workshop. The aim of the workshop is to provide participants in the CUE2021 experiment with the necessary knowledge to integrate their sensors with SAPIENT, or with the pre-Alpha version of Zodiac. Due to COVID it is expected this will be a 'virtual' workshop, but following a similar pattern to the previous workshop held in January 2020. It is hoped to hold the Integration Workshop in thye week beginning 26th July. In addition to presentations on SAPIENT and/or Zodiac pre-Alpha, the Authority wishes to offer workshop participants the opportunity to connect their sensors to the Authority's test system via VPN and for the contractors to assist workshop participants in ensuring their sensor data is logged to the Middleware and is fused by the HLDMM. Support shall comprise:

- Hosting of the Zodiac (pre-Alpha version) of SAPIENT on the CUE sandbox server and configuration of VPNs to allow participants and contractors supporting the workshop to connect to the server (up to 20 participants).
- Preparation of presentation materials in the Contractor's template (PowerPoint slides – with appropriate notes), all at OFFICIAL.
- Audio/Video presentation of the above slides (there will be no 'live' presentation of slides as one may expect in a 'physical' workshop, participants will view the video presentations two weeks before the 3 day integration session), all at OFFICIAL.
- Contractors shall also have at least two of their own ASMs (ideally different types) logging data to the Middleware during 3 day integration session to illustrate the different types of message and operation of SAPIENT. These sensors should be set-up such that fusion between the sensors can be demonstrated. However, significant effort should not be expended on this element of the support – it is included only to illustrate the basics of a working SAPIENT system.
- E-mail Q&A response to presenters (up to end of 3 day integrations session) 24hr response time (unless agreed otherwise with questioner), scope limited to content of presentations and type of question that might reasonably be expected to be asked at a 'live' seminar.

- 2 days 'virtual' interactive support (Session 2), enabling workshop participants to debug their sensors (workshop participants will be asked in advance of the workshop to provide details of their sensors and their aspirations for the workshop)

- Session 1 – SAPIENT/Zodiac (pre-Alpha) concepts:
  - Concept (Dstl)
  - ICD (Dstl);
  - Ontologies (Dstl);
  - Middleware (QinetiQ);
  - Test harness (QinetiQ);
  - Current experimental version (Cubica).
  - Autonomous Sensor Module (ASM) development, focussing on how to create a SAPIENT compliant ASM (Cubica, QinetiQ);
  - HLDMM integration with sensors and middleware (Cubica);
  - Middleware integration, database access support and data interpretation (QinetiQ, Cubica).
- Session 2 – Integration workshop (3 days):
  - Testing ASM messages to ensure they can be ingested into the middleware and fused with other sensor data within the Cubica HLDMM (Cubica, QinetiQ).

The precise contents of the presentational material shall be iterated with the Authority based on discussions from Contract Award to the delivery of the final draft.

Each Contractor shall provide 2xSMEs (the proposal shall include CVs for 1 additional reserve) to attend the full duration of the 2 day integration period. During this period, the SMEs shall provide support as reasonably required by the Authority's Technical Partner, including working with attendees to aid their understanding of SAPIENT and supporting the integration of systems into SAPIENT. The Contractors shall provide a Virtual Private Network (VPN) to enable workshop participants to connect to the Antillion sandbox SAPIENT/Zodiac/CUAS servers, view such Graphical User Interfaces that may be running, and to enable any sensors workshop participants may have to be connected to the servers (through the VPN) for the purposes of testing & integration.

During the Workshop, all SMEs shall be cognisant of any beneficial changes to the ICD which arise during interactions with workshop participants. Each Contractor shall provide attend a wash-up meeting at Dstl Porton Down (or virtually if necessary), and provide a Technical Note describing the potential changes arising from the Workshop within 3 weeks of the end of the Workshop.

WP2 – Shakedown Trial

This Work Package is to provide SME support to the shakedown trial (5 days) – dates to be confirmed. The purpose of this activity is muster the equipment to be deployed to CUE, to test the equipment works and is configured correctly, and works correctly as system (only simple scenarios to be used to test system operation). It is not the intention to test new functionality at the shakedown event.

The activities required are

a) ZPA VMs are to be transferred to the DIET Servers from either the CUE hosting environment, or the original Zodiac Servers. It is expected that it will be necessary run two or three instances of ZPA concurrently at CUE and the shakedown testing: one for C-UAS sensors, one for 'traditional' ground based SAPIENT sensors, and one for the 'Limpet' sensors. The ZPA instances should be setup and configured such that they do not interfere with each other. One of the ZPA instances will be used for NATO SET-256 activities (which are time segregated from TTCP CUE activities).

b) Week commencing 23rd August, **Antillion, Cubica** and **QinetiQ** to attend the event to support SET-256 and CUE experiment owners to demonstrate sensor to ZPA connectivity, including data logging to the middleware and fusion of detections by HLDMM.

c) As part of the de-risking for the main trial the Authority has identified two key areas for the suppliers to conduct testing and de-bugging, and requests proposals to address this, either at the shakedown or separately:
   a. Maximum capacity of sensors and messages that ZPA instantiations can process and manage effectively and efficiently.

      b.   Ability of a single instantiation of SAPIENT to process and manage effectively and efficiently, multiple geographic locations with different activities and sensors. A second 'cluster' of sensors is requested to be connected via a VPN from a contractor site to provide the second geographic location. Dstl will supply sensors if requested.

    d) Set-up, configuration, and operation of the Unmanned Ground Vehicles (UGVs). This includes the SAPIENT sensors mounted on the UGVs. The contractor shall facilitate Dstl staff gaining experience in the set-up, configuration, and operation of the UGV and its sensors.

WP 3 – CUE Experiment Support

This work package is to provide is to provide SME contractor support to enable the safe and effective operation of ZPA at the main CUE experiment and NATO SET-256 experiment prior to the main CUE experiment. To include:

1. Set-up & configuration of ZPA (it is likely two or three instances of ZPA will need to run simultaneously)
2. Operation of ZPA – Dstl staff will be available to assit, with appropriate training, guidance and support from contractor SMEs
3. Operation of Dstl UGVs, and operation of any contractor supplied sensors. (Dstl will be responsible for set-up configuration and operation of Dstl owned sensors)
4. Data management, including segregation of NATO SET-256 data from TTCP CUE data.
5. Advice on experimental design, sensor laydown, vignettes (Zodiac project specific)
6. Advice and support as may reasonable be expected in an event of this nature

Relation with existing activities and support

Many of the Dstl projects participating in CUE have as part of their existing contracts with the contractors requested to support CUE, elements of support within their existing contracts that may align with the support requested in this tasking form. In the interests of a smooth running CUE, the Dstl projects have agreed that this support may be shared between the Dstl projects participating in CUE. The purpose of this tasking form is to plug in gaps in support already contracted for, and to top-up the level of support if and where necessary. For example, the C-UAS project has contracted HLDMM support from Cubica, the SIEI project has elements of support from QinetiQ and Nexor, and the Zodiac project has elements of support from QinetiQ and Antillion. In preparing their response to this tasking form, the contractors are requested to state the level of support they will utilise from existing contracts, and the level of additional support that will be funded from this proposed contract. Dstl shall be responsible for determining the financial contribution each project shall make to the support requested in this tasking form.

Deliverables:

D1. **Integration Workshop:** Presentation materials, (slides and audio/video presentation); e-mail Q&A support (Session 1 – delivered offline in advance); support, presentation and demonstration at 3 day live integration (Session 2).

D2. **Underpinning support required by all projects:** Contractor support is required for pre-CUE shakedown testing, and for the main CUE experiment (including SET-256 activites). Contractor support is required for:

    i.   Set-up and configuration of ZPA: Includes installation of ZPA Virtual Machines (VMs) on DIET server hardware, configuration of VMs (IP addreses, etc) such that the VMs correctly talk to each other, and outside systems as required. Updating of Anti-Virus software, and Operating System patches. Configuration of networking (WiFi and wired Ethernet) to enable sensors to connect to the servers. Configuration of software (middleware, HLDMM, GUIs, etc) for the test environment and tailored to the sensors attached to the system. Diagnosis and fixing of poor system performance (as a result of poor set-up / configuration). Advice on sensor placement for good system performance and to meet the requirements of the vignette.

    ii. Operation of ZPA: The aim of this task is to demonstrate ZPA *as a whole* - i.e. integration of multiple heterogenous sensors, demonstration of sensor cross-cueing in response to alerts. Contractors should provide operators with experience of operating the ZPA software components (middleware, HLDMM, GUI, etc) who can understand the data and picture being received, and take appropriate actions to maintain smooth running of ZPA.

    iii. Data management: Contractors should ensure data from the sensors is correctly logged to the relevant databases or allocated storage. Metadata and/or other records must be kept to enable easy identification and extraction of data at a later date. Backups of the data (daily) must be kept in a separate agreed location during all test activities.

iv. Training of Dstl staff: Contractors shall give Dstl staff the opportunity to actively engage in the set-up, configuration, and operation of ZPA (middleware, HLDMM, GUI) to gain experience. No explicit training materials are expected to be produced for task; the emphasis is on Dstl staff gaining hands-on experience in using ZPA.

v. Sensor compatibility advice: Where necessary, contractors shall provide advice to sensor providers to enable SAPIENT messages from their sensors to be correctly handled by the Middleware, and fused by the HLDMM, for example advising where fields are not correctly formatted, etc.

vi. Operation of any contractor owned sensors the Authority has agreed will participate

a. At pre-CUE 'shakedown' testing – 1 week duration, to be hosted at Dstl Porton Down in the late summer (late August probable date) (Dstl to provide Trials Management)

b. The Authority requests a costed option for a contractor to host and run the pre-CUE 'shakedown' testing at their premises, with Dstl participation. The main testing should be 1 week duration, but with additional time either side for delivery packing/unpacking of equipment, etc. The contractor will provide Trials Management and such ancillary items/consumables that may be required for smooth running of the shakedown event

c. At the CUE experiment in Portsmouth

D3. **ZODIAC Experimental Design. – COSTED OPTION**

D4. **Set-up, configuration, and operation of the Unmanned Ground Vehicles (UGVs).** This includes the SAPIENT sensors mounted on the UGVs. The contractor shall facilitate Dstl staff gaining experience in the set-up, configuration, and operation of the UGV and its sensors.

b. At pre-CUE testing either at Dstl Porton Down, or a contractor site

c. At the CUE experiment in Portmouth

D5. **Fault-finding, bug fixing, and enhancements.** It is expected that faults resulting from the set-up or configuration of ZPA will be resolved within the scope of the underpinning support deliverable. The purpose of this task/deliverable is provide support specific for any bug fixes that the authority considers essential to fix, enhancements to ZPA functionality or integration, or support for ad-hoc testing outside of the activities outside of those described in this document. The Authority proposes that as the detailed nature and scope of this task / deliverable is not currently known, a limit of liability should be placed on this task, and that the cost and scope of tasks should be agreed between the Authority and Contractor as and when required.

D6. **SIEI Support:** Setup, configuration and hosting of the Virtual Machines (VMs) required to enable NATO SET-256 sensors to interface with ZPA. Setup and configuration of ZPA to interface with SET-256 VMs,cogniscent of the need to separate NATO and TTCP operations of the systems. Data management to ensure SET-256 data is backed up and segregated from TTCP CUE data.

Procurement Strategy

☐ Lot Lead to recommend   ☒ Single Source / Direct Award

Pricing:

☒ Firm Pricing   ☐ Ascertained Costs*   ☐ Other*

Firm Pricing shall be in accordance with DEFCON 127 and DEFCON 643

Ascertained Costs shall be in accordance with DEFCON 653 or DEFCON 802.

*only at Authority's discretion

Task IP Conditions

Task IP Conditions (Follow the NIPPY guide to identify your information and IP requirements for each deliverable)	Summary of the Authority's rights in foreground IP (IP generated by the supplier in performance of the contract)
DEFCON 703 ☒	Vests ownership with the Authority

DEFCON 705 Full Rights ☒	Enables MOD to share in confidence as GFI or IRC under certain types of agreements.
	Can be shared in confidence within UK Government.
OTHER IP DEFCONS: 14* ☐, 15* ☐, 16* ☐, 90* ☐, 91* ☐, 126* ☐	Generally only suitable for deliverables at TRL 6 and above.
BESPOKE IP Clause ☐ *	Details to be added and agreed by IP Group

* Do not use without IPG advice and approval

Please state in this text box if MOD or the customer has a requirement a) that one or more Other Government Departments is able to share confidentially with their own suppliers, b) to publish but you do not think there is a requirement to own or control the deliverable, or c) to share under a procurement* Memorandum of Understanding (MOU).

If any of these three issues applies, please contact IPG for advice before completing this form. *Listing research MOUs is not required, but can be a helpful courtesy to the supplier.

DELIVERABLES

Ref	Title	Due by	Format	TRL	Expected classification (subject to change)	Information required in deliverable	IPR DEFCON
D-1	*Quarterly Progress and Technical Review (QPTR 1)*	*T0+3 Months*	*Presentation (.pptx)*		*Official-Sensitive*	*Presentation pack to include but not limited to:* *• Update on technical progress* *• Progress report against project schedule.* *• Review of risk management plan.* *• Commercial aspects.* *• Review of deliverables.* *• Risks/issues.* *• GFA and supplier performance*	*705*
D-1a	Underpinning Support - Shakedown Tests	Late August 2021			Official		705
D-1b	OPTIONAL Contractor hosting of Shakedown Tests	Late August 2021			Official		705
D-1c	Underpinning Support - CUE	Sep/Oct 2021			Official		705

D-2a	UGV Support – Shakedown Tests	Late August 2021			Official		705
D-2a	UGV Support - CUE	Sep/Oct 2021			Official		705
D-3	Fault finding, bug fixes, and enhancements	Jun – Oct 2021			Official	•	703/705

DELIVERABLE: ACCEPTANCE / REJECTION CRITERIA

Unless otherwise stated below, Standard Deliverable Acceptance / Rejection applies. This is 30 business days, in accordance with DEFCON 524 Rejection, and DEFCON 525 Acceptance.

Standard Deliverable Acceptance / Rejection:-

Yes ☒ (DEFCON 524 Rejection, and DEFCON 525 Acceptance)

No ☐ (if no, please state details of applicable criteria below)

Deliverable Acceptance / Rejection Criteria:-

If there are any other specific acceptance/rejection criteria you would like to apply to any of the deliverables, please state them here.

Government Furnished Assets (GFA)

ISSUE OF EQUIPMENT/RESOURCES/INFORMATION/FACILITIES (*if not applicable, delete table and insert "None" in this text box*)

Unique Identifier/ Serial No	Description	Classification	Type	Available Date	Issued by	Return or Disposal Date	Any restrictions?
Serial no	*Description*	*Official-Sensitive*	*Equipment*	*00/00/0000*	*Issuer*	*00/00/0000*	*Include details here*

QUALITY STANDARDS

☐ **ISO9001**　(Quality Management Systems)

☐ **ISO14001**　(Environment Management Systems)

☐ **ISO12207**　(Systems and software engineering — software life cycle)

☐ **TickITPlus**　(Integrated approach to software and IT development)

☐ **Other:**　　(Please specify in free text below)

SECURITY CLASSIFICATION OF THE WORK

The highest classification of this SOR
OFFICIAL　☒　OFFICIAL-SENSITIVE　☐　SECRET　☐　TOP SECRET　☐　STRAP　☐　SAP　☐

The highest expected classification of the work carried out by the contractor
OFFICIAL　☒　OFFICIAL-SENSITIVE　☐　SECRET　☐　TOP SECRET　☐　STRAP　☐　SAP　☐

The highest expected classification of Deliverables/Output

OFFICIAL ☒ OFFICIAL-SENSITIVE ☐ SECRET ☐ TOP SECRET ☐ STRAP ☐ SAP ☐

Is a Security Aspects Letter (SAL) required? *(A Security Aspects Letter (SAL) will be required for each Task above Official-Sensitive and above)*

Yes ☐   No ☒

TASK CYBER RISK ASSESSMENT. *(In accordance with DEF STAN 05-138 and the Risk Assessment Workflow)*

Cyber Risk Level	Low Risk
Risk Assessment Reference	DCPP- RAR-91849683

ADDITIONAL TERMS AND CONDITIONS APPLICABLE TO THIS CONTRACT

Please ensure all completed forms are copied to DSTLSERAPIS@dstl.gov.uk when sending to the Lot Lead.

Tasking Form Part 2: *(To be completed by the Lot Lead)*

To:	The Authority	From:	The Lot Lead

Proposal Reference	**D21 CUE21 Support Rescoped Issue 2.0** _____ **(attached)**

Delivery of the requirement:

The proposal <u>shall</u> include, but not be limited to:

- A full technical proposal that meets the individual activities that are detailed in Statement of Requirements (Part 1 to Tasking Form).
- Breakdown of individual Deliverables, with corresponding Intellectual Property rights applied.
- Breakdown of Interim Milestone Payments, with corresponding due dates.
- A work breakdown structure/project plan with key dates and deliverables identified.
- A list of required Government Furnished Assets from the Authority, including required delivery dates.
- A clear identification of Dependencies, Assumptions, Risks and Exclusions which underpin your Technical Proposal.
- Sub-Contractors Personnel Particulars Research Worker Form and security clearances (if applicable)

COMMERCIAL

[REDACTED UNDER FOIA EXEMPTION]

Special Conditions

[REDACTED UNDER FOIA EXEMPTION]

PRICE BREAKDOWN

Please refer to the breakdown.

The core price for Work packages 1,2 and 3 is £606,577 (six hundred and six thousand, five hundred and seventy-seven pounds) ex VAT.

N.B. As requested the scope of support has been significantly reduced in order to cater for these cost efficiencies.

The optional Limit of Liability price is £45,599.37 (forty-five thousand, five hundred and ninety-nine pounds and 37 pence).

This is for additional manpower support for the Integration Trials and CUE21, and any other necessary activities, for example any HAM rework costs.

[REDACTED UNDER FOIA EXEMPTION]

An optional price for hosting the shakedown trial has not been included.

A WP4 optional price has not been included.

Offer of Contract: *(to be completed and signed by the Contractor's Commercial or Contract Manager)*

Total Proposal Price in £	See above		(ex VAT)
Start Date:	19/07/21	**End Date:**	**31/12/21**
Lot Leads Representative	Name	[REDACTED UNDER FOIA EXEMPTION]	
	Tel	[REDACTED UNDER FOIA EXEMPTION]	

	Email	[REDACTED UNDER FOIA EXEMPTION]
	Date	[REDACTED UNDER FOIA EXEMPTION]
Position in Company		[REDACTED UNDER FOIA EXEMPTION]
Signature		[REDACTED UNDER FOIA EXEMPTION]

Core Work WP1, 2 and 3 (reduced support) – Breakdown

[REDACTED UNDER FOIA EXEMPTION]

Core Work – Milestone breakdown costs

Proposed Milestones Payments
[REDACTED UNDER FOIA EXEMPTION]

Core Work WP1, 2 and 3 (reduced support) – Breakdown

Options – Summary
LOL Option For Additional Manpower support for the Integration Trial and CUE21 and any necessary activities e.g. HAM rework price and PTZ Cubica Camera Hire

[REDACTED UNDER FOIA EXEMPTION]

Optional Work – Milestone breakdown costs

Proposed Milestones Payments

[REDACTED UNDER FOIA EXEMPTION]

Optional Work – Milestone breakdown costs

March 2021 (v9.0)   OFFICIAL

Tasking Form Part 3:

To be completed by the Authority's Commercial Officer and copied to the Authority's Project Manager.

1. Acceptance of Contract:		
Authority's Commercial Officer	Name	[REDACTED UNDER FOIA EXEMPTION]
	Tel	[REDACTED UNDER FOIA EXEMPTION]
	Email	[REDACTED UNDER FOIA EXEMPTION]
	Date	30/07/2021
Requisition Number		1000165353
Contractor's Proposal Number		Serapis Task D21: SAPIENT Support to CUE' Version 2.
Purchase Order Number		[REDACTED UNDER FOIA EXEMPTION]
Signature		[REDACTED UNDER FOIA EXEMPTION]
Please Note: Task authorisation to be issued by the Authority's Commercial Officer or Contract Manager. Any work carried out prior to authorisation is at the Contractor's own risk.		