

Redacted under FOI exemption

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Task 2 – Assessment of impact of UAV on hazard plume

Ahead of further testing in live trials, with more sophisticated CB sensing technologies, there is a need to understand the limitations of sensing with a platform that will affect the air that it is trying to sample.

This task will undertake detailed (e.g. Computational Fluid Dynamics; CFD) modelling of a UAV platform located within a hazard “plume”, to investigate the effect that the platform has on observable concentrations. Redacted under FOI exemption

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1.3 Options or follow on work

¹ To be provided by Dstl

² Modelled as an area source with a specified fixed concentration boundary condition.

³ For example, the Smiths Detection LCD 3.3: <https://www.smithsdetection.com/products/lcd-3-3/>
RCloud (version 4) Tasking Form – Part B (Statement of Requirement (SoR))

	None
1.4	Contract Management Activities
1.5	Health & Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement

1.6 Deliverables & Intellectual Property Rights (IPR)						
Ref.	Title	Due by	Format	Expected classification (subject to change)	What information is required in the deliverable	IPR Condition
D-1	Monthly progress report	Monthly	3 page report	OFFICIAL	Presentation pack to include but not limited to: <ul style="list-style-type: none"> • 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 	Default RCloud Agreement Terms and Conditions shall apply
D - 2	Final technical report – Multiple Sensors	T0+3 Months	Technical Report	OFFICIAL	Technical report detailing all work performed on Task 1. Redacted under FOI exemption _____ _____ _____ _____ _____	Default RCloud Agreement Terms and Conditions shall apply

D - 3	Model software – Multiple Sensors	T0+3 Months	Software	OFFICIAL	Software source code and executables to enable Dstl to run and test the Redacted under FOI exemption model.	Default RCloud Agreement Terms and Conditions shall apply
D - 4	Final technical report – CFD modelling of UAV	T0+3 Months	Technical Report	OFFICIAL	Technical report detailing all work performed under Task 2. Redacted under FOI exemption 	Default RCloud Agreement Terms and Conditions shall apply
D - 5	Model software – CFD modelling/analysis of UAV	T0+3 Months	Software	OFFICIAL	CFD models Redacted under FOI exemption 	Default RCloud Agreement Terms and Conditions shall apply

1.7	Deliverable Acceptance Criteria
	<p>The two technical reports shall describe all work performed under the contract, and explain comprehensively the results achieved and under what conditions they were achieved (including hardware/software execution).</p> <p>The technical reports shall be in sufficient detail to enable reproduction of the processes developed and to recreate comparable results.</p> <p>Monthly reports shall capture in-month technical progress, any risks and issues, and review progress against deliverables.</p> <p>Delivered software must successfully build (where applicable) and run on Dstl Windows PC hardware. License requirements must be specified on delivery</p>
1.8	Quality Control and Assurance
	<p>Quality Control and Quality Assurance processes and standards that must be met by the contractor</p> <ul style="list-style-type: none"> <input type="checkbox"/> ISO9001 (Quality Management Systems) <input type="checkbox"/> ISO14001 (Environment Management Systems) <input checked="" type="checkbox"/> ISO12207 (Systems and software engineering — software life cycle) <input type="checkbox"/> TickITPlus (Integrated approach to software and IT development) <input type="checkbox"/> Other: (Please specify below)

2	Evaluation Criteria		
2.1	Method Explanation		
	The evaluation of the tender response shall be conducted by the technical and commercial team, who will use the below pass/fail criteria. Any criteria marked 'Fail' may result in the contract not being awarded.		
2.2	Technical Evaluation Criteria		
	Technical Criteria		
	Response Number	Summary of Response – all responses shall be related in the delivery of the Statement of Requirement (SOR)	Satisfactorily demonstrated Pass/Fail
	R1	Please demonstrate your understanding, expertise and proposed approach for capturing requirements of the Authority	
	R2	Please provide details of technical delivery, e.g.: <div style="background-color: black; color: red; padding: 5px; text-align: center; font-weight: bold;">Redacted under FOI exemption</div>	
	R3	Please provide evidence of your capability and capacity to meet the requirements within the provided timeline for the work packages detailed above.	
	R4	Please clearly define your risk processes, risk register and appropriate mitigation activities you would use in this contract, and how it would benefit the project outcome.	
	R5	Please provide a project plan / Gantt chart detailing the process of producing each of the above work packages.	
	Tender Satisfactory? (Y/N)		
2.3	Commercial Evaluation Criteria		

Commercial Criteria	
Requirement	Pass/Fail
Tenderers are required to provide a full breakdown of the prices proposed for the requirement as per the SOR, utilising the rates which are to be used under RCloud.	
Provision of full details of the points of contacts for commercial, project management & technical, for the proposed contract duration.	
The Tenderer must provide a Firm Price to undertake the work detailed in the core requirement	
The Tenderer shows that they are compliant with ISO12207 (Systems and software engineering)	