

RCloud Tasking Form – Part B: Statement of Requirement (SoR)

Title of Requirement	Optimise Efficiency of Catalyst Systems against Simulants
Requisition No.	RQ0000006980
SoR Version	0.1

1.	Statement of Requirements
1.1	Summary and Background Information
	<p>PolyCAT previously partnered with a second external supplier on Project Blackdog, funded during Phase 2 of the Don't Blow It! industry competition. During this short contract, PolyCAT produced a number of catalysts for the destruction of chemical warfare agents (CWA) and conducted some preliminary simulant testing and catalyst optimisation. This work yielded promising results, but further development and testing could not be carried out within the time constraints of the contract.</p> <p>This work will follow on from the initial research and development (R&D) conducted under Project Blackdog during Phase 2 of Don't Blow It!. It aims to further catalyst development, optimisation and simulant testing will take place in this follow-on work, and will look specifically at the effect of additives on the rate and extent of simulant destruction. The objective of this work is to downselect a set of catalysts, which could be used for further validation with agent.</p>
1.2	Requirement
	<p>Work to be conducted as per "PolyCAT UK_DBI Follow On Project Proposal – Mar 22"</p> <p>In brief:</p> <p>WP1: Review DBI2 NMR data and down-select catalyst systems. WP2: Prepare sample catalysts sufficient for project tests. WP3: Sourcing catalyst materials and oxidants/accelerants for the testing phase. WP4: Testing and analysis condition 1 – Redacted FOI Exemption 22A – Research WP5: Testing and analysis condition 2 – Redacted FOI Exemption 22A – Research WP6: Testing and analysis condition 3 – Redacted FOI Exemption 22A – Research WP7: Testing and analysis condition 4 – Redacted FOI Exemption 22A – Research WP8: Testing and analysis condition 5 – Redacted FOI Exemption 22A – Research WP9: Testing and analysis condition 6 – Redacted FOI Exemption 22A – Research WP10: Data analysis and reporting</p>
1.3	Options or follow on work <i>(if none, write 'Not applicable')</i>
	None
1.4	Contract Management Activities

	Supplier to submit a monthly progress report and attend a follow-up call with Dstl to discuss progress in month and detail within the monthly report
1.5	Health & Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement
	The Contractor's work location must have the appropriate licences to handle the chemical simulant options they propose to work with. The contractor must provide evidence of these licences. In addition, the contractor must provide evidence of competence for all involved, to carry out what is outlined in their proposal. The supplier must provide evidence of a robust safety culture and examples of the processes undertaken to ensure H&S of staff. An example risk assessment could be provided to support this.

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
Base Period – D1	Monthly project progress review	T0 + 1-4 months	Monthly progress report template and MS Teams teleconference	Redacted – FOI Exemption	<ul style="list-style-type: none"> Monthly progress report: Completion of Dstl's reporting template in full (Progress against milestones, Issues and Risks, Lessons Identified, Next Steps) Monthly call: Attendance on an MS Teams call to discuss progress in month and detail within the monthly report 	<i>Default RCloud Agreement Terms and Conditions shall apply</i>
Base Period – D2	Catalysts prepared, materials and oxidants/accelerants sourced	T0 + 2 months	MS Teams teleconference	Redacted – FOI Exemption	<ul style="list-style-type: none"> Confirmation that all preparatory work in WP1-3 is completed and can move forward to testing and analysis Reported within monthly report template and discussed at call Payment milestone associated 	
Base Period – D3	Completion of testing and analysis	T0 + 3.5 months	MS Teams teleconference	Redacted – FOI Exemption	<ul style="list-style-type: none"> Confirmation that all preparatory work in WP4-9 is completed and sharing of NMR raw data 	

					<ul style="list-style-type: none"> • Reported within monthly report template and discussed at call • Payment milestone associated 	
Base Period – D4	Presentation of final results	T0 + 4 months	MS teams or presentation at supplier site	Redacted – FOI Exemption	Presentation of results following analysis of experimental data	
Base Period – D5	Final Report	T0 + 4 months	Written report on customer template	Redacted – FOI Exemption	Report to include, but not limited to: Introduction, Methodology, Results, Conclusions, Lessons Learned, Exploitation/Next Steps <ul style="list-style-type: none"> • Payment milestone associated 	

1.7	Deliverable Acceptance Criteria
	<p>All sections of the monthly progress report must be completed and be sufficiently detailed to facilitate discussion at the monthly progress call</p> <p>The final report must cover all work conducted as per the project proposal, and also meet the following requirements:</p> <ul style="list-style-type: none"> • The review will be written in a user defined template, acceptable to the authority, to a standard of a peer-reviewed article e.g. publication of a peer reviewed technical journal, or as detailed in the Defence Research Reports Specification (DRRS) which defines the requirements for the presentation, format and production of scientific and technical reports prepared for MoD (https://www.gov.uk/guidance/submit-a-report-to-athena#defence-research-report-specification) • All reports shall be free from spelling and grammatical errors, contain a full bibliography of all the sources used.

2	Evaluation Criteria
2.1	Method Explanation
	N/A
2.2	Technical Evaluation Criteria
	N/A
2.3	Commercial Evaluation Criteria
	N/A