

## RCloud Tasking Form –Aeronautics Ltd Part C: Task Response Form

TO BE COMPLETED BY THE BIDDER

### 1. Proposal

<b>Registered Company Name</b>	Malloy Aeronautics Ltd
<b>Registered Address</b>	36 Wattleton Road, Beaconsfield, England, HP9 1SE
<b>Registered Company Number</b>	07993563
<b>Proposal Reference (attached)</b>	1000166342-MA
<b>Proposed Task Start Date</b>	14/10/2021
<b>Proposed Task End Date</b>	31/03/2023

### 2. Cost Proposal

#### SUMMARY

<b>TOTAL COST OF TASK</b>	
Firm Price Quotation (ex VAT) – Core Activity Only	£118,968.00
Firm Price Quotation (ex VAT) – Including Options (if applicable)	NA
<b>OR</b>	
Ascertained Cost (maximum price payable (ex VAT)) – Core Activity Only	£
Ascertained Cost (maximum price payable (ex VAT)) – Including Options (if applicable)	£



1. Proposal

Click to

**COST BREAKDOWN**

Please provide a full breakdown of all costs associated with the task below, as required

Please identify whether each row forms part of the task

**PROVISION FROM SERVICE**

Manpower (insert rows below as appropriate)

Each row should identify the relevant RCloud ID (from the RCloud Portal) e.g. "Head or School or Director"

Please identify each role, rates and number of days and overhead.

(Not to exceed the maximum rates stated in your proposal)

The R-Cloud role descriptions don't really match up with our internal job titles so I have added new ones below. Malloy has a standard rate for all roles.

Engineer		535	£ Redacted under FOI Exemption	Core
Pilot	£ Redacted under FOI Exemption	140	£ Redacted under FOI Exemption	Core
Project manager	£ Redacted under FOI Exemption	135	£ Redacted under FOI Exemption	Core
Travel & Subsistence (Incl. UK Road Mileage, Accommodation)			Redacted under FOI Exemption	Core
T150 Aircraft dry lease (aircraft only)	£ Redacted under FOI Exemption	18	£ Redacted under FOI Exemption	Core
Range Facility (White Waltham Airfield)	£0	12 days	£0	Core
Materials and Equipment (provide detailed list)			£ Redacted under FOI Exemption	Core

Materials and equipment detailed list:

Alt-Nav power supply	£ Redacted under FOI Exemption
3DP for enclosures and cowlings	£ Redacted under FOI Exemption
Modified drop mechanism	£ Redacted under FOI Exemption
Power cable assemblies	£ Redacted under FOI Exemption
Fixings	£ Redacted under FOI Exemption
Modified motherboard with interface for Alt-Nav	£ Redacted under FOI Exemption
Communication isolation, parsing and cabling	£ Redacted under FOI Exemption

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Daily wet lease rate for T150 including; Remote Pilot, Engineer, batteries, chargers, basic GCS and support equipment	£ Redacted under FOI Exemption (day rate)			Option
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PROVISION FROM SUBCONTRACTORS	Cost	Quantity	Sub-Total	Core/Option
Flight Controller Developer	£ Redacted under FOI Exemption (day rate)	15 days	£ Redacted under FOI Exemption	Core
ADDITIONAL CHARGES				
Handling Fee for sub-contracting in accordance with agreed rate			NA	
INFORMATION ONLY:				
General Administration / Overheads in accordance with agreed rate	30%			
Agreed Profit in accordance with agreed rate	10%			

### Assumptions and Dependencies (if applicable)

#### Dependencies:

- Customer to provide more detailed ICD for electrical, mechanical and control interfaces of the Alt-Nav system.
- Customer to input into test plans were required to get the most out of the testing duration.

#### Assumptions:

- Malloy's proposal will cover both phases 1 and 2 in just 5 months provided suitable support can be given in that timeframe.
- The Alt-nav solution will be suitable for integration with the Arducopter code base
- The data output format of the Alt-Nav system approximately fits the requirements below:
  - 10Hz or greater update rate on all reading
  - 3DOF location and velocity estimates
  - Heading estimate (preferable but not strictly required)
  - Resolution of position estimate equivalent to ~1cm
  - Resolution of velocity estimates ~1cm/s
- The aircrafts primary moving-base RTK GPS based navigation solution will be acceptable for use as a ground source – A separate Leica base and rover system could be utilised in the future but has not been budgeted for in this phase.
- With very little information on the Alt-Nav system or its maturity, a minimal number of testing days has been proposed. It is expected this will be sufficient to demonstrate a successful basic integration. We have not guessed at other testing that may be desired by the Alt-Nav system designers.
- Switching between the Alt-Nav system navigation filter and the primary filter will be at the pilot's control and will not be automatically controlled. A low effort future package of work could achieve this using a script running on the flight controller using QoS and navigation EKF variance values to decide which filter to use.

### Milestone (M/S) Payment Notes:

- 1) Dstl will not make any form of Payment on Contract award.



- 2) M/S Payment cost to be qualified as Value for Money (VFM) justifiable charge.
- 3) Where Equipment is purchased in support of this Task, full payment will only be made following Contractor confirmed receipt of Equipment. If a deposit has to be paid at time of Contractor placing the Order, then this deposit payment, at the Authority's discretion, may be approved if supported by documentation as proof of Contractor payment.
- 4) For tasks of less than 6 month duration, M/S payments are at the discretion of the Authority.

### 3. Additional Information

<b>3.1</b>	<b>Government Furnished Assets (GFA)</b>
<p>Please state below whether GFA is required from the Authority. If 'Yes', please provide a complete list. All GFA must be recorded in a formal list whilst in the possession of the Contractor.</p> <p>For any purchased materials which will become GFE, please provide the known pricing within section 2. Cost Proposal.</p>	
<p>GFA to be Issued - No</p> <p>If 'yes' – add details below. If 'supplier to specify' or 'no,' delete all cells below.</p>	
<p>If 'Yes' – provide details here.</p>	
<b>3.2</b>	<b>Contractor's Personnel and Government Establishments</b>
<p>If performance of the Contract requires access to the Authority's site(s) please confirm insurance is in place in accordance with the R-Cloud Agreement Terms and Conditions</p>	
<p><b>Access Not Required</b></p>	
<b>3.3</b>	<b>Commercially Sensitive Information</b>
<p>Is any Commercial Sensitive Information included within your proposal?</p>	
<p><b>No</b></p>	
<p>If 'Yes', please provide the following information:</p>	
<p>Description of Commercially Sensitive Information:</p>	
<p>Cross Reference(s) to location of sensitive information in proposal:</p>	
<p>Explanation of Sensitivity:</p>	
<p>Details of potential harm resulting from disclosure:</p>	
<p>Period of Confidence (if applicable):</p>	



Contact Details for Transparency/Freedom of Information matters:

Name: **Redacted under FOI Exemption**

Position: CEO

Address: Malloy Aeronautics, Hanger7, White Waltham airfield, maidenhead SL6 3TW

Telephone Number: 07400334303

Email Address: **Redacted under FOI Exemption** [@malloyaeronautics.com](mailto:malloyaeronautics.com)

### **3.4 Security - Research Workers Process**

For Tasks where a Research Workers Form has been provided, please complete and return as per the process outlined in Part A (Task Overview).

One form is required per Research Worker.

**Please return the completed Tasking Response Form by via the RCloud Portal for the relevant task.**

**Acceptance by the Authority of the proposal to the bidder will be through the issue of an R-Cloud notification containing a purchase order number, which must be quoted on any relevant invoices.**

**The RCloud (version 4) Agreement Terms and Conditions shall apply<sup>1</sup>.**

<sup>1</sup> [https://rcloud-v4.dstl.gov.uk/assets/documents/RCloud\\_Agreement\\_Terms\\_and\\_Conditions\\_v4.pdf](https://rcloud-v4.dstl.gov.uk/assets/documents/RCloud_Agreement_Terms_and_Conditions_v4.pdf)

