



Coniston Copper Mine Hyperspectral Drone Survey

Invitation to Tender

**Project scope, procurement guidance &
supporting information**

CA18/1/10/2569



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Overview

Contractual References

This tender will be associated with Coal Authority reference CA18/1/10/2569

A contractor will be appointed to undertake a specialist Hyperspectral and Topographical UAS (Unmanned Aerial System - Drone) survey within “Coppermine Valley” Coniston, Cumbria.

The conditions of contract are NEC 3(2013) Professional Services Contract – Option A (priced contract with activity schedule) with additional conditions of contract.

Project Scope & Objectives

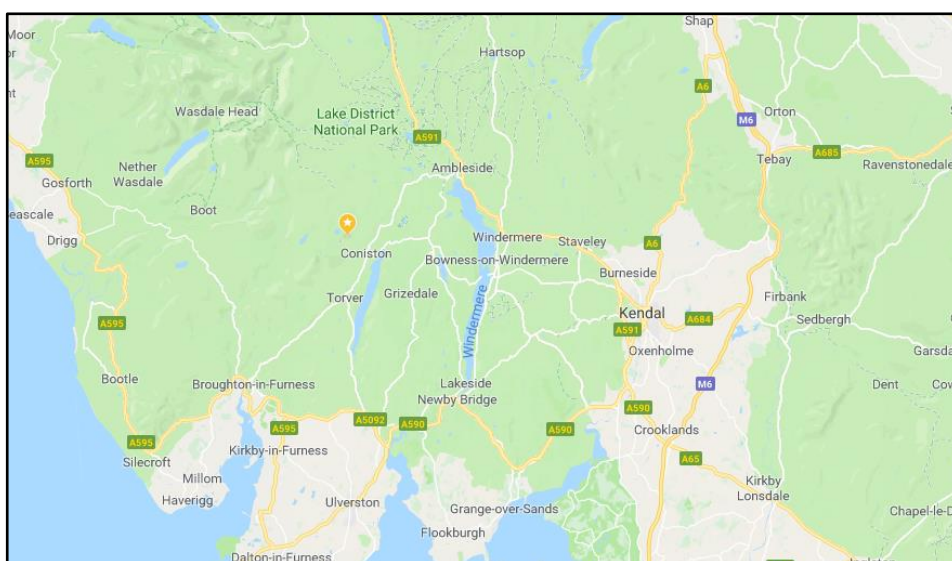
The Coal Authority requires a specialist Hyperspectral and Topographical UAS (Unmanned Aerial System - Drone) survey within “Coppermine Valley” Coniston, Cumbria to provide a detailed topographical survey, including geo-located aerial photographs, and to identify (if possible) areas of elevated metal concentrations (Cu, Zn) and sub-surface drainage routes (particularly those with elevated metals).

This will form a key contributory element in a joint Coal Authority and Environment Agency project to protect spoil heap stability and identify potential diffuse pollution sources.

The abandoned copper mining complex (See **LOCATION MAP 1**) is a legacy of extensive mining and processing operations dating back well over 100 years.

The entire site is a collection of former buildings, mining spoil heaps, and metal ore processing sites and ponds. The site has now achieved UNESCO World Heritage Status.

Excavated material ranging from large stones (circa 500 mm Ø) down to crushed and milled metal rich ore material now make up much of the surface of the site and associated spoil heaps.



LOCATION MAP 1. - Coniston Copper Mine, Coniston, Cumbria, UK.

Levers Water Beck flows through Copper Mines Valley from the Levers Water reservoir to become Church Beck which discharges into Coniston Water.

This beck is impacted by historic mining activity through a combination of adit discharges and diffuse pollution from spoil heaps and old workings.

It is the surface and shallow subsurface waters and the spoil heaps and metal ore deposition (copper, zinc) hot spots across the site that the survey needs to identify.

The Coal Authority's representative and Project Manager whilst carrying out this work will be Graham Dell.

Requirements

Ref	Recommendations	Scope / References
1	<i>Pre-mobilisation, planning and permitting.</i>	Civil Aviation Authority - CAP 722 Civil Aviation Authority - SERA - Rules of Air Regulations Chicago Convention Air navigation Order 2009 Regulation (EC) 785/2004 – Insurance requirements Survey planning, Site specific Risk Assessment, Flight Plan, including Lost Link protocol, line of sight planning etc. On-site meeting with PM. Confirmation of survey area.
2	<i>Stakeholder Engagement.</i>	Stakeholder Identification and communication plan, with adequate lead in time to make relevant stakeholders aware of the specific activities being undertaken in the survey and the projected date and duration of the activities.
3	<i>Topographical Survey</i>	Digital output in an agreed format that delivers requirements.
4	<i>Hyperspectral survey</i>	Digital output in an agreed format that delivers requirements.
5	<i>Still images</i>	Digital output in a JPEG / RAW format.
6	<i>Video images</i>	Digital output in an agreed format and resolution.
7	<i>Handover, interpretation and post survey meeting</i>	Close out of activities and sign off

Deliverables

The following items have been identified as key deliverables for the works and are to be provided by the Contractor as part of this scope of works:

- Detailed execution and delivery plan submitted and accepted by The Coal Authority (TCA) at least 1 week prior to any site mobilisation and onsite aerial activity.
- Initial Programme (with updates as required) within 1 week of receiving the award.
- Initial Risk Register (with updates as required) within 1 week of receiving the award.
- Delivery to and acceptance by TCA of the Topographical Survey (Data sets & GID tie-in) in an appropriate agreed format, uploaded onto our CONJECT website.
- Delivery to and acceptance by TCA of the Hyperspectral Survey (Data sets & GIS tie-in) in an appropriate agreed format, uploaded onto our CONJECT website. – This survey must meet the technical requirements of TCA
- Delivery and acceptance by TCA of the all raw data sets, uploaded onto our CONJECT website.
- Delivery and acceptance by TCA of any Video and Still images, free of any corporate logo in an agreed and appropriate format, uploaded onto our CONJECT website.
- In the event that there are size limitations that prevent the uploading of data onto CONJECT the information will be delivered to our Main Offices on an agreed appropriate portable media format.

Milestones

The key milestones are as follows:

- Detailed execution and delivery plan submitted and accepted by TCA, prior to any site mobilisation and onsite aerial activity.
- Demonstration of appropriate engagement with Stakeholders (residents, CAA, LDNPA, etc.) prior to any onsite aerial activity through a Stakeholder Management Plan.
- Demonstration that appropriate: Safety, Health & Environment and Flight Specific risk assessment and Flight Plans are in place prior to any onsite aerial activity.
- Successful execution of survey providing technical information as required by TCA.

- Delivery of Data and interpretation report.

Site Location Details

Coniston Copper Mine,

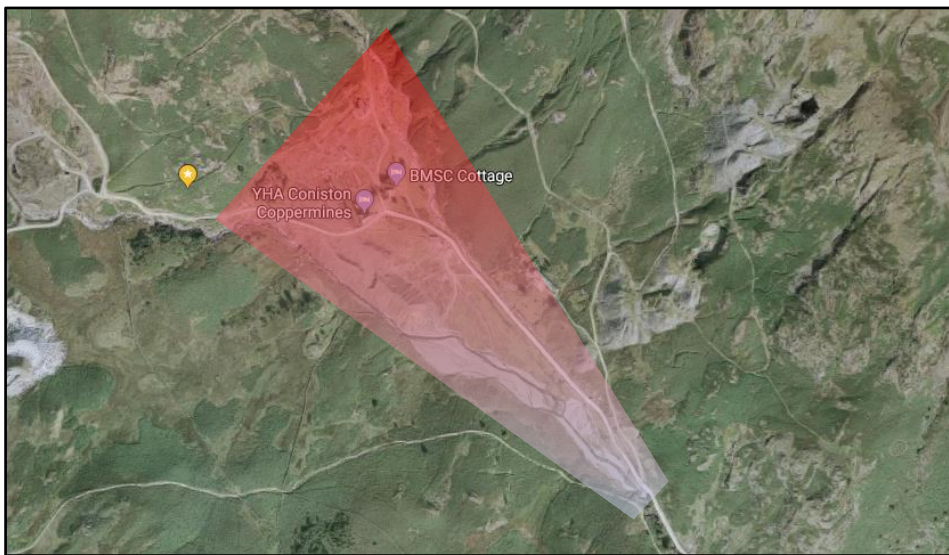
Coniston LA21 8HX (Nearest Postcode)

OS GRID – SD 28921 98522

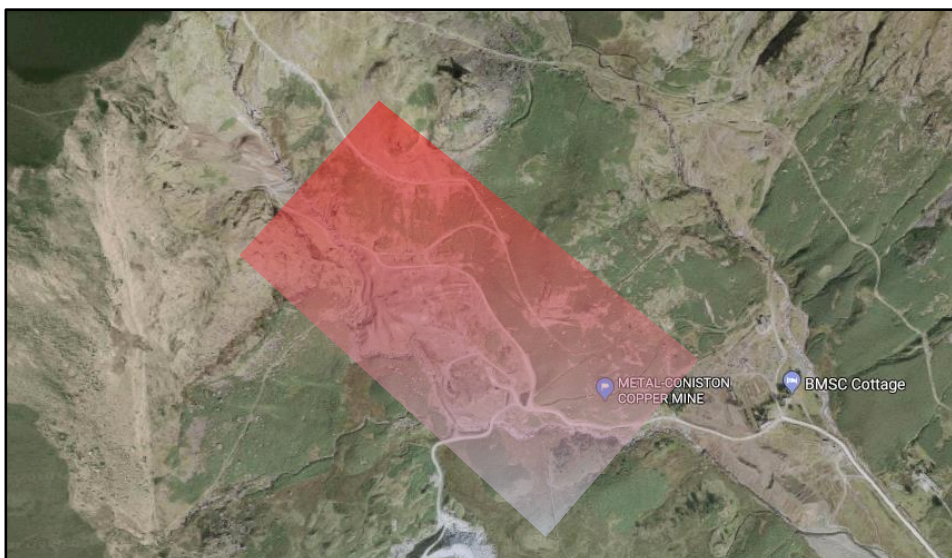
[GOOGLE EARTH](#)

[GOOGLE MAPS](#)

Site Location



SITE MAP 2. - Bonsor Spoil Heap and run-off



SITE MAP 3. -Paddy End Spoil Heap and run-off

Associated Document

The following document, which can be found on the tender portal is to be read in association with this document:



TCA Spoil Heap Inspection

Indicative Timetable

Below is detailed the indicative timetable of the procurement process.

Task	Date
Invitation to Tender issued and upload to Contracts Finder	9 March 2018
Tender Period Closes	13 April 2018
Assessment & Award	3 weeks to moderate and award

Pricing

A financial ceiling will be set, based upon the appointed Contractor's financial submission. The financial ceiling will not be exceeded by the appointed Contractor without prior justification and the written authorisation of the Coal Authority's Project Manager.

Tender Return, Assessment & Criteria

The ITT Bid evaluation will be based on the technical and financial proposals within the bids and the information set out in each compliant bid

Bidders must accept the Coal Authority's terms & conditions.

The Coal Authority will reject any Bid which is not a Compliant Bid.

A Bid shall only be a compliant bid if the following documents have been completed and submitted:

- Qualification Envelope completed in the Bravo e-portal
- Technical Questionnaire and Responses - Completed in the Bravo e-portal

The tendering *Contractors* are to ensure that the registered contact details on the eTendering portal are correct for this process.

In order to register, please log on to <https://inbye.coal.gov.uk/s2c/> following the links and should you have any difficulties with this procedure, please contact Peter Kobryn on 01623 637302

The tender will be awarded on the basis of the most economically advantageous tender and will be assessed based upon a **70% Quality and 30% Financial split**, with the quality assessment being completed prior to the financial assessment.

The documentation to be submitted is summarised.

One Quality Submission is required on the eTendering portal.

The Financial submission for the project is to be submitted on the eTendering portal.

The Evaluation of the ITT responses will be carried out in two stages.

These stages are:

- Stage One: Core Assessment;
- Stage Two: Technical Assessment.

Stage 1 – Core Assessment

The assessment at Stage 1 will comprise of a number of questions on the following topics:

- General & Organisation
- Economic & Financial & Legal Standing and Insurance
- Safety, Health & Environmental Issues

These elements will be assessed on a minimum “meets requirements” basis.

The Authority reserves the right to exclude any bid that does not meet the minimum requirements for these elements

The “meets requirements” score required in the health and safety and environmental sections of the questionnaire is 40%.

The Authority will exclude a bid from this process if it establishes that the economic operator has been convicted of any of the offences defined in Regulation 57 of the Public Contract Regulations 2015

Bids meeting requirements will then be evaluated on the basis of the most economically advantageous tender.

Your tender should be submitted on a fixed price basis and should remain open for acceptance for a period of 120 days from the closing date for the receipt of tenders.

Tenders received after the tender closing date will not be considered. Failure to comply with the provisions of these Instructions or to complete the tender document in full and without alteration may also result in the disqualification of your tender.

Your submitted tender rates and prices must be exclusive of Value Added Tax.

Quality Scoring Assessment for Stage Two

Assessment	Meaning	Score
Adds Value	The evaluator believes that as well as meeting the requirements in all respects the proposal describes additional features that will benefit the Authority	5
Fully Acceptable	The evaluator is fully satisfied that the proposal meets the requirement in all aspects	4
Minor Reservations	The evaluator is confident that the supplier has the ability to meet the requirement but has some minor reservations	3
Significant Reservations	The evaluator believes the supplier has the ability to partially meet the requirement, but has some major reservations about the approach or solution proposed. The supplier has not met the minimum requirements as specified.	2
Unacceptable	The evaluator believe that the evidence fails to show that the supplier is capable in the requirement area	0

The Coal Authority reserves the right to deem any submission scoring a 0 or 2 for any scored question as non – compliant and as such may be excluded from consideration

Stage Two – Technical Assessment – Details

See below details, requirements and weightings for the quality elements of this tender.

Subject	Question	High Scoring Response
Experience – 17.5%	<p>Please provide by way of an attachment evidence of three previous projects that you have delivered which are relevant and / or similar to the scope of this contract.</p> <p>Please include detailed information on the scope of these previous projects, the extent and detail of the services provided and the benefit delivered to the clients</p> <p>Please limit your response to no more than six sides of A4</p>	<p>Technically relevant examples provided.</p> <p>Requirements that closely match our requirements for Coniston</p> <p>Responses with technical content providing significant detail to assure technical capability.</p>
Benefits – 40%	<p>By way of an attachment please detail the benefits that would be delivered to us by your service.</p> <p>Please provide practical evidence of how your service would assist the Coal Authority in its objectives of protecting spoil heap stability and identifying potential diffuse pollution mitigation measures in the Coniston Copper Mine area</p> <p>Please limit your response to no more than four sides of A4</p>	<p>Responses with technical content providing significant detail to illustrate benefit to The Coal Authority with a clear link to delivering our objectives of identifying .water flow, metal concentrations etc. will score highly.</p> <p>Responses providing a clear explanation of how the various data will be interpreted and what the key technical targets for the interpretation are will score highly.</p>
Stakeholder Management– 17.5%	<p>By way of an attachment please explain how you would manage contact with stakeholders who have an interest in both the project and the local area while carrying out this work.</p> <p>Please provide evidence of the style and substance of any communications you undertake and how you respond to any concerns about the operation of drone technology.</p> <p>Please limit your response to no more than four sides of A4</p>	<p>Submission showing a developed and comprehensive approach to stakeholder management with focus on the needs and concerns of stakeholders.</p> <p>We perceive these stakeholders to be , for example, Lake District National Park Authority, statutory and non-statutory regulatory and environmental protection bodies, local residents & Civil Aviation Authority</p>

Subject	Question	High Scoring Response
Reports & Information Delivered – 17.5%	<p>By way of attachment please provide examples of client reports provided following surveys you have completed.</p> <p>Please confirm that the content and detail will be similar to that provided by you should you be successful in this tender.</p> <p>Please also confirm that information will be available in electronic and hard copy format without restriction of use.</p>	<p>Evidence of detailed and relevant client reports that will assist us in our objectives for this project with appropriate levels of detail.</p> <p>Client reports that are accessible in format.</p> <p>Hard and electronic copies of reports provided without qualification or restriction.</p> <p>It is our requirement that any report(s), data and images (moving or otherwise) provided are the property of The Coal Authority without qualification or restriction and will be provided in clean format (i.e. without visible logo or identification)</p>
Programme for Delivery – 7.5%	<p>By way of an attachment please provide a programme for the completion of the required survey and production of client report should you be successful in this tender.</p> <p>Please include all steps that will be required, including any dependencies upon us for input or support.</p> <p>Please limit your response to no more than one side of A3</p>	<p>A realistic and detailed programme that delivers in a timely manner whilst also taking into account all steps and dependencies</p>
Basis of Contract – Pass / Fail	<p>Are you willing to transact with The Coal Authority on the basis that payment will only be made on the delivery of key stages and that if no viable results are provided for each data set (i.e. water flow, metal composition of the tailings, no payment will be made for those elements not provided.</p>	<p>Confirmation of your willingness to transact on this basis is required.</p> <p>A full costed breakdown of deliverables must be provided in your activity schedule so as to ensure that you receive payment for those elements of the work that are completed successfully.</p>
CAA Registration – Pass / Fail	<p>Please confirm (with evidence attached) your registration with the CAA (Civil Aviation Authority) as a drone pilot / operator.</p>	<p>The Coal Authority will only transact with an organisation that has the appropriate registrations and experience to carry out this work.</p>

Subject	Question	High Scoring Response
	Please provide copies of registration papers as well as a previously logged flight plan to confirm your compliance with the requirements of this activity	

Guidelines

The questionnaire should be completed by a partner/director/senior manager.

Please answer each question fully. The Authority stresses the value and importance of substantiating answers with supporting documentation when requested.

The questionnaire should be completed accurately, if successful this document will form part of the contract.

The response and supporting documents must relate specifically to the organisations policy and arrangements.

Organisations currently providing services to the Authority must provide full details as requested and not just refer to the Authority.

Appendices in the form of attachments are either requested for the response to a specific question or can be included in the General Attachment area of this questionnaire but where included must be clearly labelled and cross referenced to ensure the information supplied can be assessed in full.

Assessment & Feedback

The tender submissions will be assessed in accordance with selection criteria.

Feedback will be provided at that time to organisations which are not successful through the issue of a letter providing debrief information on the assessment of the tender, scoring and confirmation of the successful tenderer.

Acceptance Procedure

The Authority does not bind itself to accept your tender and will not be responsible for, nor pay for, any expenses or losses which may be incurred by you in the preparation of your tender.

It is intended that the procurement process will take place in accordance with the provisions of this ITT but The Coal Authority reserves the right to terminate, suspend, amend or vary this procurement process by notice to all potential bidders in writing.

The Coal Authority will have no liability for any losses, costs or expenses caused to bidders as a result of such termination, suspension, amendment or variation.

No tender shall be deemed to have been accepted unless such acceptance has been notified in writing to the tenderer.

Whether or not your tender is accepted, you must treat the details of all tender documents as private and confidential. If you decide not to submit a tender, you must reply that you wish to reject the tender and provide a comment why.

If you require clarification then a query through the online messaging facility should be submitted.

Declaration

We declare that this is a bona fide tender, intended to be competitive, and that we have not fixed or adjusted the amount of the tender by or under or in accordance with any agreement or arrangement with any other person.

We also declare that we have not done and we undertake that we will not do at any time before the returnable date for this tender any of the following acts:-

- (a) Communicate to a person other than the person calling for these tenders the amount or approximate amount of the proposed tender;
- (b) Enter into any agreement or arrangement with any other person that he shall refrain from tendering or as to the amount of any tender to be submitted;
- (c) Offer, pay or give or agree to pay or give any sum of money or valuable consideration directly or indirectly to any person for doing or having done or causing or having caused to be done in relation to any other tender or proposed tender for the said work any act or thing of the sort described above.

In this declaration the word 'person' includes any persons and any body or association, corporate or unincorporated; and 'any agreement or arrangement' includes any such transaction, formal or informal, and whether legally binding or not.

Appendix A – Transparency Guidance

Transparency

Government has set out the need for greater transparency across its operations to enable the public to hold public bodies and politicians to account. This includes commitments relating to public expenditure, intended to help achieve better value for money.

As part of the transparency agenda, Government has made the following commitments with regard to procurement and contracting:

- All new central government ICT contracts over the value of £10,000 to be published in full online from July 2010.
- All new central government tender documents for contracts over £10,000 to be published on a single website from September 2010, with this information to be made available to the public free of charge.
- All new central government contracts over the value of £10,000 to be published in full from January 2011.
- New items of central government spending over £25,000 to published online from November 2010.

Suppliers and those organisations looking to bid for public sector contracts should be aware that if they are awarded a new Government contract, the resulting contract between the supplier and Government will be published. In some circumstances, limited redactions will be made to some contracts before they are published in order to comply with existing law and for the protection of national security.

The publication of information incorporates but is not limited to the following documentation/information. This will cover potential contract extensions and orders placed against a framework or term contract.

Contracts: contract, specification, terms and conditions, schedules and pricing – issued by both the tenderer and the Authority.

Tenders: invitation to tender, specification, terms and conditions, prequalification questionnaires, OJEU notices – issued by the Authority.

Spending: summary of invoice information in relation to payments made and includes invoice values – submitted by suppliers.