**Flow Monitoring Structures Wheal Exmouth, Devon**

**CA18/1/10/2543**

**Project Scope**

**Return Deadline Wednesday 25 January 2017 at 1600hrs**

# 

# Overview

## Contractual References

This tender will be associated with Coal Authority reference CA18/1/10/2543

The conditions of contract are the Coal Authority Works & Services contract (2009).

## Scope

## The Coal Authority wishes to appoint a suitably experienced contractor to carry out a flow monitoring options assessment, followed by detailed design and installation of flow monitoring structures at a mine water discharge site in Devon.

Flow monitoring is required to assist in characterisation of abandoned mine water discharges to determine the potential for treatment. Continuous flow measurements are required in conjunction with spot flow gauging and water quality data.

There is currently limited flow monitoring being undertaken at site. Following installation of structures, the sites will be visited monthly as part of a standard monitoring round (not part of this tender).

The scope of this commission is to design and enable the installation of monitoring structures and data loggers at each site **by 31 March 2017**, capable of the following:

• Continuous flow measurement (15 min intervals)

• Accurate to ≤5% error

• Data available in excel compatible format (.csv or similar)

• Data in standard format (e.g. L/s averaged over measurement period, or instantaneous values) to allow easy interpretation

• Not causing any notable increase in flood risk.

• Designs to conform to relevant standards e.g. BS ISO 1438 (2008), ISO 4360 (2008), ISO 4359 (2013)

Consideration needs to be given to safe and easy access to allow data download and water quality samples.

Fixings in adit structures are not envisaged.

We expect the options assessment to include;

(i) A site visit

(ii) Report to include the following;

* Potential flow monitoring options (including data loggers) which must be appropriate to the site, giving due regard to site specific constraints.
* Pros and cons of each option considered to include items such as access, maintenance, power, accuracy, costs, flow ranges and potential for flooding.
* Estimated costs for construction of each option, including supply and installation of equipment.

**You must be capable of delivering the scheme by 31st March 2017.**

## Location

## Site 1: Wheal Exmouth, Devon

## Grid reference: 283906, 83003

## Expected flow ranges: will vary dependent upon which area of site

## Downstream end of site is anticipated to be 2 L/s minimum – maximum is currently uncertain but reported to potentially be very high (in the 100’s L/s)

## Access: from the B3193. The site is steeply sloping in places, with mining spoil tips, a marshy area in the centre and wooded areas along the sides.

## There is currently no permanent monitoring structure at site.

There are a number of different flow paths at the site, with a number of springs and surface water flows through the main site area and a mine adit discharge which is separate to the main flows, but which joins them at the bottom of site. A key aspect of this appointment will be determining what monitoring options are feasible at different locations on site, in order to increase the accuracy of the conceptual site model.

The flows from the top of site carry a reasonable amount of silt from the spoil heaps, therefore maintenance requirements will need to be considered.

The flows are reported to be very ‘flashy’ with a wide flow range.

A topographic survey is being undertaken in January 2017, the results of which will be provided to the successful bidder.

Discussions are currently being held with Dartmoor National Park Planning Authority regarding the scale of construction works allowed, the outcome of which will be communicated to the successful bidder.

## 

## Indicative Timetable

Below is detailed the indicative timetable of events.

|  |  |
| --- | --- |
| **Task** | **Time Scale** |
| Invitation to Tender and upload to Contracts Finder | 10 January 2017 |
| Submission of Tender Deadline | 25 January 2017 |
| Assessment & Award \* | w.c. 30 January 2017 |

\* Any changes to indicative timescale will be notified

## Pricing

Tenderers are requested to provide 2 priced elements:

1. A fixed price for an options assessment - pricing should include:

* A summary of the costs for a site visit and the options report.
* A detailed breakdown of allocated roles, and hourly rates of proposed team members. (If successful, these rates will form the agreed rates for future works undertaken as part of this contract)

2. Indicative pricing for installation of a standard weir design (as per tender document TD-002-P1 - Monitoring Structure Inside Adit) to include:

* Specifications compliant with the output requirements as noted in the tender documentation
* Indicative pricing for installation based upon the attached standard weir design, and site conditions as per our Killhope (Park Level) site.
* A breakdown of allocated roles and hourly rates, estimated materials, plant and labour costs and any sub-contractor mark up (if applicable)

(This indicative pricing is to allow for comparison purposes only)

The Rates submitted should only include those relating to hours of work and administration overheads. Mileage and subsistence should be detailed separately.

The two pricing elements will be equally weighted when assessed.

## Tender Return, Assessment & Criteria

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 [www.coal.bravosolution.co.uk](http://www.coal.bravosolution.co.uk), following the links and should you have any difficulties with this procedure, please contact Bravosolution, the Authority’s provider, on 0800 368 4850 (free phone number), who will assist you throughout the whole procedure at any time.

The tender will be awarded on the basis of the most economically advantageous tender and will be assessed based upon the following weightings

**70% Quality**

**30% Commercial**

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.

**Quality Scoring Assessment**

|  |  |  |
| --- | --- | --- |
| **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 Authority reserves the right to deem any bid attracting a score of 2 or less on any question as a non-compliant bid** and the submission will not progress to the financial evaluation.

**Quality Assessment – Details**

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

|  |  |  |
| --- | --- | --- |
| Quality Q No. | Question | Weighting |
| 1 | Please provide by way of attachment evidence of three previous schemes you have worked on relevant to the scope of this contract.  Include information on the site, access, installation type, scheme size, equipment, and provide client contact details for references.  How have you ensured that structures could be removed without damage to walls/ floor/ river bed? | 30 |
| 2 | How many flow monitoring installations has your organisation completed in the last 12 months?  Please summarise the total by geographic spread and size.  Give examples of 3 different types of structures you have experience of, where they have been used and pros and cons of each. | 30 |
| 3 | By way of an attachment please confirm what experience you have in challenging client specifications for specific sites to deliver a better outcome – please provide examples of situations where you have positively challenged a client brief | 10 |
| 4 | For all of the sites for which you are bidding please provide by way of an attachment a programme / Gantt Chart for the design and installation of the structures we require by 31st March 2017.  This will allow us to evaluate whether you have sufficient personnel and resources to meet our deadlines. | 30 |