# Invitation to Quote

Invitation to Quote (ITQ) on behalf of Natural Environment Research Council (NERC) Subject: CRDS Analysers

Sourcing Reference Number: RE17385



UK Shared Business Services Ltd (UK SBS) www.uksbs.co.uk

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## **Section 1 – About UK Shared Business Services**

Putting the business into shared services

UK Shared Business Services Ltd (UK SBS) brings a commercial attitude to the public sector; helping Contracting Authorities improve efficiency, generate savings and modernise.

It is our vision to become the leading service provider for Contracting Authorities for of shared business services in the UK public sector, continuously reducing cost and improving quality of business services for Government and the public sector.

Our broad range of expert services is shared by our Contracting Authorities. This allows Contracting Authorities the freedom to focus resources on core activities; innovating and transforming their own organisations.

Core services include Procurement, Finance, Grants Admissions, Human Resources, Payroll, ISS, and Property Asset Management all underpinned by our Service Delivery and Contact Centre teams.

UK SBS is a people rather than task focused business. It's what makes us different to the traditional transactional shared services centre. What is more, being a not-for-profit organisation owned by the Department for Business, Energy & Industrial Strategy (BEIS), UK SBS' goals are aligned with the public sector and delivering best value for the UK taxpayer.

UK Shared Business Services Ltd changed its name from RCUK Shared Services Centre Ltd in March 2013.

#### **Our Customers**

Growing from a foundation of supporting the Research Councils, 2012/13 saw Business, Energy and Industrial Strategy (BEIS) transition their procurement to UK SBS and Crown Commercial Services (CCS – previously Government Procurement Service) agree a Memorandum of Understanding with UK SBS to deliver two major procurement categories (construction and research) across Government.

UK SBS currently manages £700m expenditure for its Contracting Authorities.

Our Contracting Authorities who have access to our services and Contracts are detailed here.

## Section 2 – About the Contracting Authority

Natural Environment Research Council (NERC)

NERC is the UK's main agency for funding and managing research, training and knowledge exchange in the environmental sciences.

NERC's work covers the full range of atmospheric, Earth, biological, terrestrial and aquatic science, from the deep oceans to the upper atmosphere and from the poles to the equator.

The organisation coordinates some of the world's most exciting research projects, tackling major issues such as climate change, environmental influences on human health, the genetic make-up of life on Earth, and much more.

Working internationally, NERC have bases at some of the most hostile places on the planet; running a fleet of research ships and aircraft and investing in satellite technology to monitor gradual environmental change on a global scale. NERC provide forewarning of, and solutions to, the key environmental challenges facing society.

#### Examples of funded research

- Showing the importance of mature tropical forests to the global climate.
- Developing a safer and cleaner way to mine gold by reducing the use of mercury.
- Studying the hole in the ozone layer discovered by our British Antarctic Survey and monitoring climate change.
- Playing a major role in the International Census of Marine Life that monitors our oceans.

#### NERC also runs six organisations of world renown:

- British Antarctic Survey, in Cambridge.
- British Geological Survey, in Nottingham.
- National Oceanography Centre, in Southampton.
- Centre for Ecology & Hydrology, in Oxfordshire.
- National Centre for Atmospheric Science, in Leeds.
- National Centre for Earth Observation, Swindon.

#### www.nerc.ac.uk

## Section 3 - Working with the Contracting Authority .

In this section you will find details of your Procurement contact point and the timescales relating to this opportunity.

Section 3 – Contact details		
3.1	Contracting Authority Name and address	Natural Environment Research Council Polaris House North Star Avenue Swindon SN2 1EU
3.2	Buyer name	Joanne Blake
3.3	Buyer contact details	Research.tenders@uksbs.co.uk
3.4	Estimated value of the Opportunity	£140,000 - £155,000 excluding VAT
3.5	Process for the submission of clarifications and Bids	All correspondence shall be submitted within the Emptoris e-sourcing tool. Guidance Notes to support the use of Emptoris is available <u>here</u> . Please note submission of a Bid to any email address including the Buyer <u>will</u> result in the Bid <u>not</u> being considered.

Section 3 - Timescales		
3.6	Date of Issue of Contract Advert and location of original Advert	Wednesday 15 <sup>th</sup> November 2017 Contracts Finder
3.7	Latest date/time ITQ clarification questions shall be received through Emptoris messaging system	Thursday 23 <sup>rd</sup> November 2017 11:00
3.8	Latest date/time ITQ clarification answers should be sent to all Bidders by the Buyer through Emptoris	Friday 24 <sup>th</sup> November 2017 14:00
3.9	Latest date/time ITQ Bid shall be submitted through Emptoris	Tuesday 28 <sup>th</sup> November 2017 11:00
3.10	Anticipated selection and the selections of Bids notification date	Tuesday 5 <sup>th</sup> December 2017
3.11	Anticipated Award date	Wednesday 6 <sup>th</sup> December 2017
3.12	Anticipated Contract Start date	Monday 11 <sup>th</sup> December 2017
3.13	Bid Validity Period	60 Days

## **Section 4 – Specification**

The Centre for Ecology & Hydrology (CEH) is a world-class research organisation focusing on land and freshwater ecosystems and their interaction with the atmosphere. Uniquely, CEH integrates UK-wide observation systems and curiosity driven research, from the smallest scale of genetic diversity to large-scale, whole-Earth systems. CEH works across disciplines and facilitates academic, public, private and voluntary sector partnerships. CEH's extensive, long-term monitoring, analysis and modelling deliver UK and global environmental data, providing early warnings of change and management solutions for our land and freshwaters.

CEH requires two cavity ring-down (CRDS) analysers which can measure carbon dioxide, methane, nitrous oxide and ammonia simultaneously. The analysers need to be field-deployable in a mobile laboratory located in a horsebox. The analysers will also be used in traditional laboratories or moved around in fields using small trolleys.

CRDS analysers use a single-frequency laser diode and two high reflectivity mirrors to measure the small gas-phase molecules at the near-infrared absorption level of the spectrum. The concentration of gases within any species can be determined by measuring the strength of absorption. Because of the mirrors, a CRDS analyser is able to measure at parts per billion over several kilometres as the laser 'bounces' between the mirrors thousands of times. CRDS analysers also do not require a fluorophore to be added to excite light within organisms.

#### **Specification**

#### 4.1 Essential

The essential requirements of the specification must include the following:

- **4.1.1** Operate using the technique commonly known as Cavity Ringdown Spectroscopy
- **4.1.2** The analysers will need to be able to function un-attended for periods up to 7 days, therefore will require access via a mobile modem to draw data to a central computer and to react to remote log-ins, an example is pictured below.



**4.1.3** The analysers must be able to control external valves, such as the one pictured below



- **4.1.4** Include one (in total) multiport sampling valve for 16 gas sampling lines
- 4.1.5 Include soil GHG flux software for analysis of data
- 4.1.6 Report real time data and provide data in an exportable CSV format
- 4.1.7 Use a solid state hard drive
- 4.1.8 Provide spare external pumps in case of breakdown
- **4.1.9** Phone or web support must be offered after delivery for installation queries
- 4.1.10 The power requirements must be 100-240 VAC
- 4.1.11 1 year's standard warranty

#### 4.2 General

**4.2.1** The analysers will need to be easy to mount for deployment in the following settings:

**4.2.1.1** Mounted in a mobile laboratory (in a modified horsebox), as pictured below.



**4.2.1.2** Mounted in a standard laboratory in a casing which will also be used on a trailer, as pictured below



**4.2.1.3** Deployed in the field via movement on a small trolley, as pictured below.



**4.2.2** Delivery will be no longer than 6 weeks from the contract award date.

#### 4.3 Hardware

**4.3.1** The analyser must be sufficiently robust to travel in the back of a mobile laboratory whilst moving. In order to validate this we require details of the process of drop and vibration testing – or your nearest equivalent - that the

analysers have experienced. The minimum requirement for this is that it does not lose any functionality after being dropped from a height of 5' on each edge at least twice. The analyser must be able to withstand vibrations at 25 Hertz for 15 minutes.

- **4.3.2** The power requirements must be less than 300 watts.
- **4.3.3** The analyser must be capable of measuring nitrous oxide (N2O) concentration with the following guaranteed precision:
  - Over 1 minute <10 ppb
  - Over 5 minutes <5 ppb
  - Guaranteed range 0.3-100 ppm
- **4.3.4** The analyser must be capable of measuring methane (CH4) concentration with the following guaranteed precision:
  - Over 1 minute <7.5 ppb
  - Over 5 minutes <5 ppb
  - Guaranteed range 1.5-10 ppm
- **4.3.5** The analyser must be capable of measuring carbon dioxide (CO2) concentration with the following guaranteed precision:
  - Over 1 minute <500 ppb
  - Over 5 minutes <250 ppb</li>
  - o Guaranteed range 380-2,000 ppm
- **4.3.6** The analyser must be capable of measuring ammonia (NH3) concentration with the following guaranteed precision:
  - Over 1 minute <5 ppb
  - Over 5 minutes <1 ppb</li>
  - o Guaranteed range 0-200 ppb
- **4.3.7** In-factory support packages must be offered. The expectation is for a regular point-of contact to be maintained whilst the analyser is being repaired, a reasonable turnaround time according to industry standards and for a stock of spare parts to be maintained.
- **4.3.8** The proposed system must be able to integrate with a Li-Cor LI-8100A

#### 4.4 Software

**4.4.1** Remote service support must be available. The expectation is that the supplier should be contactable during business hours by telephone with an immediate acknowledgement of log being created, or within an hour by email. The supplier should resolve the issue within 24 hours, excluding weekends.

#### **Terms and Conditions**

Bidders are to note that any requested modifications to the Contracting Authority Terms and Conditions on the grounds of statutory and legal matters only, shall be raised as a formal clarification during the permitted clarification period.

The Contract duration shall be for a period of no more than 2 months.

## Section 5 – Evaluation model

The evaluation model below shall be used for this ITQ, which will be determined to two decimal places.

Where a question is 'for information only' it will not be scored.

The evaluation team may comprise staff from UK SBS and the Contracting Authority and any specific external stakeholders the Contracting Authority deems required. After evaluation the scores will be finalised by performing a calculation to identify (at question level) the mean average of all evaluators (Example – a question is scored by three evaluators and judged as scoring 5, 5 and 6. These scores will be added together and divided by the number of evaluators to produce the final score of 5.33 (5+5+6 =16÷3 = 5.33)

Pass / fail criteria		
Questionnaire	Q No.	Question subject
Commercial	SEL1.2	Employment breaches/ Equality
Commercial	SEL3.11	Compliance with Section 54 of the Modern Slavery Act 2015
Commercial	FOI1.1	Freedom of Information Exemptions
Commercial	AW1.1	Form of Bid
Commercial	AW1.3	Certificate of Bona Fide Bid
Commercial	AW3.1	Validation check
Commercial	AW4.1	Contract Terms Part 1
Commercial	AW4.2	Contract Terms Part 2
Price	AW5.5	E Invoicing
Price	AW5.6	Implementation of E-Invoicing
Quality	AW6.1	Compliance to the Essential section $(4.1.1 - 4.1.11)$ of the specification
Quality	GEN1.3	Machine weight and rack-mount dimensions
Quality	GEN1.4	6-week lead-time
Quality	HARD1.2	Power requirements
Quality	HARD1.5	Integration with Li-Cur LI-8100A
-	-	Invitation to Quote – received on time within e- sourcing tool

#### Scoring criteria

#### **Evaluation Justification Statement**

In consideration of this particular requirement the Contracting Authority has decided to evaluate Potential Providers by adopting the weightings/scoring mechanism detailed within this ITQ. The Contracting Authority considers these weightings to be in line with existing best practice for a requirement of this type.

Questionnaire	Q No.	Question subject	Maximum Marks
Price	AW5.2	Price	60%
Quality	HARD1.1	Drop and vibration testing	25%

Quality	HARD1.4	In-factory service support	7.5%
Quality	SOFT1.2	Remote service support	7.5%

#### Evaluation of criteria

#### Non-Price elements

Each question will be judged on a score from 0 to 100, which shall be subjected to a multiplier to reflect the percentage of the evaluation criteria allocated to that question.

Where an evaluation criterion is worth 20% then the 0-100 score achieved will be multiplied by 20%.

Example if a Bidder scores 60 from the available 100 points this will equate to 12% by using the following calculation:

Score = {weighting percentage} x {bidder's score} =  $20\% \times 60 = 12$ 

The same logic will be applied to groups of questions which equate to a single evaluation criterion.

The 0-100 score shall be based on (unless otherwise stated within the question):

0	The Question is not answered or the response is completely unacceptable.
10	Extremely poor response - they have completely missed the point of the
	question.
20	Very poor response and not wholly acceptable. Requires major revision to the
	response to make it acceptable. Only partially answers the requirement, with
	major deficiencies and little relevant detail proposed.
40	Poor response only partially satisfying the selection question requirements with
	deficiencies apparent. Some useful evidence provided but response falls well
	short of expectations. Low probability of being a capable supplier.
60	Response is acceptable but remains basic and could have been expanded upon.
	Response is sufficient but does not inspire.
80	Good response which describes their capabilities in detail which provides high
	levels of assurance consistent with a quality provider. The response includes a
	full description of techniques and measurements currently employed.
100	Response is exceptional and clearly demonstrates they are capable of meeting
	the requirement. No significant weaknesses noted. The response is compelling
	in its description of techniques and measurements currently employed, providing
	full assurance consistent with a quality provider.

All questions will be scored based on the above mechanism. Please be aware that the final score returned may be different as there may be multiple evaluators and their individual scores will be averaged (mean) to determine your final score.

#### Example

Evaluator 1 scored your bid as 60 Evaluator 2 scored your bid as 60 Evaluator 3 scored your bid as 40 Evaluator 4 scored your bid as 40 Your final score will  $(60+60+40+40) \div 4 = 50$ **Price elements** will be judged on the following criteria. The lowest price for a response which meets the pass criteria shall score 100. All other bids shall be scored on a pro rata basis in relation to the lowest price. The score is then subject to a multiplier to reflect the percentage value of the price criterion.

For example - Bid 1 £100,000 scores 100. Bid 2 £120,000 differential of £20,000 or 20% remove 20% from price scores 80 Bid 3 £150,000 differential £50,000 remove 50% from price scores 50. Bid 4 £175,000 differential £75,000 remove 75% from price scores 25. Bid 5 £200,000 differential £100,000 remove 100% from price scores 0. Bid 6 £300,000 differential £200,000 remove 100% from price scores 0. Where the scoring criterion is worth 50% then the 0-100 score achieved will be multiplied by 50.

In the example if a supplier scores 80 from the available 100 points this will equate to 40% by using the following calculation: Score/Total Points multiplied by 50 ( $80/100 \times 50 = 40$ )

The lowest score possible is 0 even if the price submitted is more than 100% greater than the lowest price.

## Section 6 – Evaluation questionnaire

Bidders should note that the evaluation questionnaire is located within the **e-sourcing questionnaire**.

Guidance on completion of the questionnaire is available at <a href="http://www.uksbs.co.uk/services/procure/Pages/supplier.aspx">http://www.uksbs.co.uk/services/procure/Pages/supplier.aspx</a>

PLEASE NOTE THE QUESTIONS ARE NOT NUMBERED SEQUENTIALLY

## **Section 7 – General Information**

What makes a good bid – some simple do's 🙂

#### DO:

- 7.1 Do comply with Procurement document instructions. Failure to do so may lead to disqualification.
- 7.2 Do provide the Bid on time, and in the required format. Remember that the date/time given for a response is the last date that it can be accepted; we are legally bound to disqualify late submissions. Unless formally requested to do so by UK SBS e.g. Emptoris system failure
- 7.3 Do ensure you have read all the training materials to utilise e-sourcing tool prior to responding to this Bid. If you send your Bid by email or post it will be rejected.
- 7.4 Do use Microsoft Word, PowerPoint Excel 97-03 or compatible formats, or PDF unless agreed in writing by the Buyer. If you use another file format without our written permission we may reject your Bid.
- 7.5 Do ensure you utilise the Emptoris messaging system to raise any clarifications to our ITQ. You should note that we will release the answer to the question to all Bidders and where we suspect the question contains confidential information we may modify the content of the question to protect the anonymity of the Bidder or their proposed solution
- 7.6 Do answer the question, it is not enough simply to cross-reference to a 'policy', web page or another part of your Bid, the evaluation team have limited time to assess bids and if they can't find the answer, they can't score it.
- 7.7 Do consider who the Contracting Authority is and what they want a generic answer does not necessarily meet every Contracting Authority's needs.
- 7.8 Do reference your documents correctly, specifically where supporting documentation is requested e.g. referencing the question/s they apply to.
- 7.9 Do provide clear, concise and ideally generic contact details; telephone numbers, emails and fax details.
- 7.10 Do complete all questions in the questionnaire or we may reject your Bid.
- 7.11 Do check and recheck your Bid before dispatch.

#### What makes a good bid – some simple do not's 🛞

#### DO NOT

- 7.12 Do not cut and paste from a previous document and forget to change the previous details such as the previous buyer's name.
- 7.13 Do not attach 'glossy' brochures that have not been requested, they will not be read unless we have asked for them. Only send what has been requested and only send supplementary information if we have offered the opportunity so to do.
- 7.14 Do not share the Procurement documents, they are confidential and should not be shared with anyone without the Buyers written permission.
- 7.15 Do not seek to influence the procurement process by requesting meetings or contacting UK SBS or the Contracting Authority to discuss your Bid. If your Bid requires clarification the Buyer will contact you. All information secured outside of formal Buyer communications shall have no Legal standing or worth and should not be relied upon.
- 7.16 Do not contact any UK SBS staff or the Contracting Authority staff without the Buyers written permission or we may reject your Bid.
- 7.17 Do not collude to fix or adjust the price or withdraw your Bid with another Party as we will reject your Bid.
- 7.18 Do not offer UK SBS or the Contracting Authority staff any inducement or we will reject your Bid.
- 7.19 Do not seek changes to the Bid after responses have been submitted and the deadline for Bids to be submitted has passed.
- 7.20 Do not cross reference answers to external websites or other parts of your Bid, the cross references and website links will not be considered.
- 7.21 Do not exceed word counts, the additional words will not be considered.
- 7.22 Do not make your Bid conditional on acceptance of your own Terms of Contract, as your Bid will be rejected.

#### Some additional guidance notes <a> </a>

- 7.23 All enquiries with respect to access to the e-sourcing tool and problems with functionality within the tool must be submitted to Crown Commercial Service (previously Government Procurement Service), Telephone 0345 010 3503.
- 7.24 Bidders will be specifically advised where attachments are permissible to support a question response within the e-sourcing tool. Where they are not permissible any attachments submitted will not be considered as part of the evaluation process.
- 7.25 Question numbering is not sequential and all questions which require submission are included in the Section 6 Evaluation Questionnaire.
- 7.26 Any Contract offered may not guarantee any volume of work or any exclusivity of supply.
- 7.27 We do not guarantee to award any Contract as a result of this procurement
- 7.28 All documents issued or received in relation to this procurement shall be the property of the Contracting Authority. / UKSBS.
- 7.29 We can amend any part of the procurement documents at any time prior to the latest date / time Bids shall be submitted through Emptoris.
- 7.30 If you are a Consortium you must provide details of the Consortiums structure.
- 7.31 Bidders will be expected to comply with the Freedom of Information Act 2000 or your Bid will be rejected.
- 7.32 Bidders should note the Government's transparency agenda requires your Bid and any Contract entered into to be published on a designated, publicly searchable web site. By submitting a response to this ITQ Bidders are agreeing that their Bid and Contract may be made public
- 7.33 Your bid will be valid for 60 days or your Bid will be rejected.
- 7.34 Bidders may only amend the contract terms during the clarification period only, only if you can demonstrate there is a legal or statutory reason why you cannot accept them. If you request changes to the Contract terms without such grounds and the Contracting Authority fail to accept your legal or statutory reason is reasonably justified we may reject your Bid.
- 7.35 We will let you know the outcome of your Bid evaluation and where requested will provide a written debrief of the relative strengths and weaknesses of your Bid.
- 7.36 If you fail mandatory pass / fail criteria we will reject your Bid.
- 7.37 Bidders are required to use IE8, IE9, Chrome or Firefox in order to access the functionality of the Emptoris e-sourcing tool.
- 7.38 Bidders should note that if they are successful with their proposal the Contracting Authority reserves the right to ask additional compliancy checks prior to the award of any Contract. In the event of a Bidder failing to meet one of the compliancy checks

the Contracting Authority may decline to proceed with the award of the Contract to the successful Bidder.

- 7.39 All timescales are set using a 24 hour clock and are based on British Summer Time or Greenwich Mean Time, depending on which applies at the point when Date and Time Bids shall be submitted through Emptoris.
- 7.40 All Central Government Departments and their Executive Agencies and Non Departmental Public Bodies are subject to control and reporting within Government. In particular, they report to the Cabinet Office and HM Treasury for all expenditure. Further, the Cabinet Office has a cross-Government role delivering overall Government policy on public procurement - including ensuring value for money and related aspects of good procurement practice.

For these purposes, the Contracting Authority may disclose within Government any of the Bidders documentation/information (including any that the Bidder considers to be confidential and/or commercially sensitive such as specific bid information) submitted by the Bidder to the Contracting Authority during this Procurement. The information will not be disclosed outside Government. Bidders taking part in this ITQ consent to these terms as part of the competition process.

7.41 The Government is introducing its new Government Security Classifications (GSC) classification scheme on the 2<sup>nd</sup> April 2014 to replace the current Government Protective Marking System (GPMS). A key aspect of this is the reduction in the number of security classifications used. All Bidders are encouraged to make themselves aware of the changes and identify any potential impacts in their Bid, as the protective marking and applicable protection of any material passed to, or generated by, you during the procurement process or pursuant to any Contract awarded to you as a result of this tender process will be subject to the new GSC . The link below to the Gov.uk website provides information on the new GSC:

https://www.gov.uk/government/publications/government-security-classifications

The Contracting Authority reserves the right to amend any security related term or condition of the draft contract accompanying this ITQ to reflect any changes introduced by the GSC. In particular where this ITQ is accompanied by any instructions on safeguarding classified information (e.g. a Security Aspects Letter) as a result of any changes stemming from the new GSC, whether in respect of the applicable protective marking scheme, specific protective markings given, the aspects to which any protective marking applies or otherwise. This may relate to the instructions on safeguarding classified information (e.g. a Security Aspects Letter) as they apply to the procurement as they apply to the procurement process and/or any contracts awarded to you as a result of the procurement process.

#### **USEFUL INFORMATION LINKS**

- Emptoris Training Guide
- Emptoris e-sourcing tool
- <u>Contracts Finder</u>
- Equalities Act introduction
- Bribery Act introduction
- Freedom of information Act