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Planning

## **Contract for the Modelling of Ambient Air Quality (MAAQ)**

Defra Network eTendering Portal

F01: Prior information notice

Prior information only

Notice identifier: 2024/S 000-022533

Procurement identifier (OCID): ocids-h6vhtk-0482f5

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### **Section I: Contracting authority**

#### **I.1) Name and addresses**

Defra Network eTendering Portal

Seacole Building, 2 Marsham Street

London

SW1P 4DF

#### **Contact**

dgc-laww-buyer@defra.gov.uk

#### **Email**

[dgc-laww-buyer@defra.gov.uk](mailto:dgc-laww-buyer@defra.gov.uk)

#### **Country**

United Kingdom

#### **Region code**

UK - United Kingdom

**Internet address(es)**

Main address

<https://www.gov.uk/government/organisations/department-for-environment-food-rural-affairs>

Buyer's address

<https://defra-family.force.com/s/Welcome>

**I.3) Communication**

Additional information can be obtained from the above-mentioned address

**I.4) Type of the contracting authority**

Ministry or any other national or federal authority

**I.5) Main activity**

Environment

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## **Section II: Object**

### **II.1) Scope of the procurement**

#### **II.1.1) Title**

Contract for the Modelling of Ambient Air Quality (MAAQ)

#### **II.1.2) Main CPV code**

- 73000000 - Research and development services and related consultancy services

#### **II.1.3) Type of contract**

Services

#### **II.1.4) Short description**

The Modelling of Ambient Air Quality contract helps fulfil the legal obligation to conduct air quality assessments and report compliance with air quality limit values, critical levels, target values and long-term objectives on an annual basis under the Air Quality Standards Regulations 2010 (AQSR).

#### **II.1.6) Information about lots**

This contract is divided into lots: No

### **II.2) Description**

#### **II.2.3) Place of performance**

NUTS codes

- UK - United Kingdom

#### **II.2.4) Description of the procurement**

The Authority is seeking to appoint a contractor for the Modelling of Ambient Air Quality for assessment of air quality and reporting compliance with air quality limit values, critical levels, target values and long-term objectives under the Air Quality Standards Regulations 2010 (AQSR).

The objectives of the Modelling of Ambient Air Quality contract are to develop and apply air quality models and other methods of assessment to:

- Map ambient air pollutant concentrations across the UK for 13 pollutants including the pollutants of most concern in terms of health burdens and statutory compliance risks, which are nitrogen dioxide and particulate matter.

- Carry out an annual assessment of compliance with air quality limit values and target values for statutory reporting (under the AQSR).
- Support the investigation and development of policy initiatives.

## **II.2.14) Additional information**

### Requirements from Suppliers

- The Supplier will be required to use the model(s) to carry out the annual supplementary assessment modelling by 20 August each year, for reporting compliance under the Air Quality Standards Regulations 2010 (AQSR), ready for the reporting to be delivered by the 30 September (or latest working day preceding that date) each year. Draft modelling must be complete by 20th July each year.
- The Supplier will be required to use modelling approaches compliant with the Air Quality Standards Regulations 2010 (AQSR) (The Air Quality Standards Regulations 2010 ([legislation.gov.uk](https://www.legislation.gov.uk))) to calculate background concentrations for all pollutant metrics (limit values and target values) as required and defined within the AQSR at a minimum resolution of 1km x 1km. (Where appropriate alternative approaches to modelling for different pollutants may be used).

The pollutants are:

#### Pollutant Objective

NO<sub>2</sub> Limit value for health (1-hr mean)

Limit value for health (annual mean)

NO<sub>x</sub> Critical level for vegetation (annual mean)

PM<sub>10</sub> Limit value for health (24-hr mean)

Limit value for health (annual mean)

PM<sub>2.5</sub>

Stage 1 Limit value (annual mean, 1st Jan 2015)

Stage 2 Limit value (annual mean, 1st Jan 2020)

SO<sub>2</sub> Limit value for health (1-hr mean)

Limit value for health (24-hr mean)

Critical level for vegetation (annual mean)

Critical level for vegetation (winter mean)

Lead Limit value (annual mean)

Benzene Limit value (annual mean)

CO Limit value (8-hr mean)

Ozone Target value and Long Term Objective for health (8-hr mean)

Target value and Long Term Objective for vegetation (AOT40)

Arsenic Target value (annual mean)

Cadmium Target value (annual mean)

Nickel Target value (annual mean)

BaP Target value (annual mean)

- For pollutants with a significant roadside contribution (NO<sub>x</sub>, NO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub> and benzene), concentrations at the roadside must be modelled for major urban roads (as defined in the NAEI UK Spatial Emissions Methodology report updated annually, latest

Report: UK Spatial Emissions Methodology - A report of the National Atmospheric Emission Inventory 2021 - NAEI, UK ([beis.gov.uk](https://beis.gov.uk)) Section 3.3.2 Road transport mapping methodology). Roadside concentrations could additionally be modelled for other roads.

- The contractor must carry out additional detailed modelling by mid August (or a date agreed with the Authority) each year for BaP and/or Nickel for specified industrial sites to be agreed with the authority.
- The supplier will also be required to:
  - o Obtain, and process as required, all input data required. Where available, data from the NAEI (provided by the NAEI contractor) should be the default unless the Contractor can demonstrate a better alternative to be agreed with the Authority.
  - o Deliver the required output files to the Data Dissemination Unit (DDU) Contractor by the relevant deadlines to enable completion of reporting.
  - o Provide (roadside) source apportionment for NO<sub>x</sub> (to represent NO<sub>2</sub>), PM<sub>10</sub> and PM<sub>2.5</sub>
  - o The model must be capable of modelling future years.
- The supplier will be required to support the Authority in a range of policy assessment and other services to meet current evidence priorities.

### **II.3) Estimated date of publication of contract notice**

2 September 2024

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## **Section IV. Procedure**

### **IV.1) Description**

#### **IV.1.8) Information about the Government Procurement Agreement (GPA)**

The procurement is covered by the Government Procurement Agreement: Yes

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## Section VI. Complementary information

### VI.3) Additional information

**\*Planned Market Engagement Process Overview :**

The Authority has alerted the market to the upcoming retender for the Modelling of Ambient Air Quality contract, including via this PIN. The Authority will engage with selected suppliers in 1-2-1 conversations as per the criteria below.

**\*Supplier Selection Criteria for 1-2-1 conversation :**

Selected suppliers will be invited to 1-2-1 conversations based on the Authority's assessment of the capability to meet the detailed requirements of the modelling for the compliance assessment under the AQSR legislation. This will be determined based on the performance of suppliers who were involved in the recent Defra Model Intercomparison Exercise (MIE), which was designed to understand the compliance reporting capabilities of models. If you believe that you also should have a 1-2-1 conversation, please reach out to us by 19th August 2024 and explain why. A summary of MIE can be provided upon request if the Authority agrees that you have provided acceptable evidence that you could reasonably deliver the requirement.

**\*The purpose of the PIN :**

The purpose of this PIN is a request for information, offering suppliers the preliminary opportunity to share their potential ideas for the network. In order to understand the markets appetite and ability to resource and bid for this work, we are requesting you respond to this PIN to confirm if you are interested in bidding for this work and that you can meet any or all of the requirements outlined above. Your response should be submitted by email to [dgc-laww-buyer@defra.gov.uk](mailto:dgc-laww-buyer@defra.gov.uk) by the closing date of 19th August 2024 (17:00). The Authority may contact you to confirm your interest and ability to meet our requirements.

The response to this PIN will determine if/ when we are able to commence a procurement process. This PIN does not commit the Authority to progressing this opportunity beyond this point.

It should also be noted that this PIN invites individuals and organisations to express an interest in this exercise only, and it is NOT a pre-qualification questionnaire, and is NOT part of any pre-qualification or selection process.