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Planning

## **Engineered Barrier Systems and Materials Science**

Nuclear Waste Services Limited

F01: Prior information notice

Prior information only

Notice identifier: 2024/S 000-023631

Procurement identifier (OCID): ocids-h6vhtk-048594

Published 29 July 2024, 3:31pm

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

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

Nuclear Waste Services Limited

Pelham House, Pelham Drive,

Calderbridge, Seascale

CA20 1DB

#### **Contact**

Meg Chappell

#### **Email**

[meg.chappell@nuclearwasteservices.uk](mailto:meg.chappell@nuclearwasteservices.uk)

#### **Country**

United Kingdom

**Region code**

UKD1 - Cumbria

**National registration number**

05608448

**Internet address(es)**

Main address

<https://www.gov.uk/government/organisations/nuclear-waste-services/about>

Buyer's address

<https://www.gov.uk/government/organisations/nuclear-waste-services/about>

**I.3) Communication**

Additional information can be obtained from the above-mentioned address

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

Body governed by public law

**I.5) Main activity**

Other activity

Disposal of radioactive waste

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## **Section II: Object**

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

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

Engineered Barrier Systems and Materials Science

Reference number

C20827

#### **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**

Nuclear Waste Services (NWS) would like to notify suppliers of future requirements and engage with the market to understand what it can provide in terms of capacity and capability to deliver Research & Development services for the Engineered Barrier Systems (EBS) and Materials Science Framework. This framework will enable the development of the EBS and container materials which can be deployed in a UK site-specific geological disposal facility. This framework also includes provision for waste package accident performance research and testing.

#### **II.1.5) Estimated total value**

Value excluding VAT: £58,000,000

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

This contract is divided into lots: No

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

#### **II.2.2) Additional CPV code(s)**

- 73100000 - Research and experimental development services
- 73111000 - Research laboratory services
- 73200000 - Research and development consultancy services
- 71350000 - Engineering-related scientific and technical services
- 73110000 - Research services
- 73120000 - Experimental development services
- 73210000 - Research consultancy services
- 73300000 - Design and execution of research and development

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

NUTS codes

- UK - United Kingdom

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

The development of a Geological Disposal Facility (GDF) is essential for the final disposal of higher activity radioactive wastes in the UK. It is a critical part of the Nuclear Decommissioning Authority's (NDA) overall mission to decommission and dispose of the UK's nuclear legacy waste. The mission of the GDF programme is to deliver a permanent solution for the disposal of higher activity radioactive waste through the design, construction, operation and closure of a GDF.

Its objectives are:

- To build trust and work in partnership with one or more communities to gain consent and support to host a GDF.
- To facilitate economic benefits and growth, delivering regional jobs and skills and a positive legacy.
- To deliver a permanent solution for the safe disposal of higher activity waste through the safe, sustainable, and cost-effective design, construction, operation and closure of a GDF.
- To enable the timely retirement of the significant and currently enduring financial liability and risk associated with above ground storage of higher activity waste, that would persist indefinitely if a disposal solution was not developed.

A GDF will be a significant piece of UK infrastructure where the majority of the facility is built between 200 and 1000 metres underground, putting the waste in purpose-built containers

which are then placed in tunnels and vaults beneath several hundred metres of solid rock. Further information about the GDF programme can be found here: GDF (Geological Disposal Facility) - GOV.UK ([www.gov.uk](http://www.gov.uk))

This Prior Information Notice relates to future market engagement that NWS intends to perform, concerning the development of a supply-chain-based R&D services capability for EBS concept and material development, testing, and modelling. The long-term evolution of the EBS under repository conditions will also be a key area of scope. Such services will be required by NWS as part of its ongoing design programme for a UK GDF. For the purposes of this PIN, the term 'EBS' includes high-heat generating waste (HHGW) and low-heat generating waste (LHWG) barrier systems, including buffers, backfills, accessway plugs and seals, and waste container materials (all waste streams). The compatibility of some infrastructural components, such as tunnel liners, within the overall EBS system, will also be a consideration. The scope also includes assessing waste package accident performance (WPAP) for wasteforms and associated container materials.

This PIN should be read in conjunction with the following documents, all of which can be viewed on Atamis: <https://atamis-2464.my.site.com/s/Welcome>

- Briefing document
- Scope
- Contracting and Competition Principles
- Request for Information

You will be required to register on Atamis, and once registration is complete you can search for this PIN using the Atamis search box and using the title as a reference – Engineered Barrier Systems & Materials Science.

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

This PIN is not a call for competition; it is to signal an intention to commence market engagement with interested organisations for the provision of a Migration pathways and Containment Framework for the GDF programme with industry experts and suppliers who are interested in potentially bidding for the resulting commercial agreement(s).

If you wish to participate in the market engagement please register your interest via the URL here on Atamis, no later than 16:00 BST, Friday 6th September 2024.

<https://atamis-2464.my.site.com/s/Welcome>

Please DO NOT register interest via any other route.

Market engagement is being carried out in three initial stages.

For the first stage, NWS are requesting written responses to a number of questions, which can be found within the Request for Information (RFI) documents on Atamis. Suppliers' responses to these questions should be sent to NWS via the messaging function on Atamis no later than 16:00 BST, Friday 4th October 2024.

For the second stage, NWS will hold 2 online meetings for all interested suppliers to provide detailed information about the scope of this engagement, and commercial points. The content of both meetings will be the same. These will be held at 14:00 BST, Monday 16th September 2024 and 11:00 BST, Thursday 19th September 2024.

For the third stage, NWS will hold "one-to-one" market engagement sessions with interested Suppliers who are interested in potentially bidding for either the Architect Engineer and/or Owners Engineer procurements, with a view to gaining a more in-depth understanding of the supply chain perspective on our current approach. These sessions are likely to take place face-to-face in the week commencing 21st October 2024 in the Birmingham area (venue TBC). Whilst it is NWS' preference to meet with Suppliers face-to-face, where this is not possible, alternative virtual sessions may be scheduled for the week commencing 28th October 2024.

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

24 October 2025

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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**

The estimated value of this requirement, as stated in Section II.1.5 of this PIN, is £58,000,000 excluding VAT over a total maximum 15 year contract duration.

Additional CPV codes:

73110000 Research services

73120000 Experimental development services

73111000 Research laboratory services

73200000 Research and development consultancy services

73210000 Research consultancy services

73300000 Design and execution of research and development

71350000 Engineering-related scientific and technical services