

**Prior Information Notice (PIN) for Pre-Market Engagement
for
Metrology, Technical Investigations and Associated Services**

Background

Sellafield Ltd has a requirement for the services of the scope detailed below.

The current provider of those services is the National Physical Laboratory through a 4-year Framework Agreement.

Sellafield are asking the supply chain or other organisations to indicate if they are interested in this opportunity, and if they have the technical capability to meet **all** the requirements of the scope detailed below noting the requirements are inter dependent on each other.

Responses should be submitted through the Sellafield Ltd ATAMIS system by 22nd August 2023 @ 11.00am against ATAMIS reference number C12723.

Responses sent through ATAMIS messaging facility should indicate that you organisation has the technical capability to deliver **all** of the requirements of the scope of services.

Supply Chain wishing to do business with Sellafield Ltd and the wider Nuclear Decommissioning Authority and to see other opportunities need to register on:

[One NDA eCommercial System - ATAMIS](#)

Scope of Services required

The Service Provider is required to have the skills and expertise to apply the most accurate and up-to-date measurement standards, science, and technology available when delivering its Services. The Services required as further detailed below, may be summarised as: the substantiation of uncertainties, provision of calibration to national standards and the qualification of measurements required by regulators and legislation, mobile radiometric calibrations, technical evaluations of measurement and test equipment and calibration processes.

The types of Services provided by the Service Provider will be:

1. Technical support:

Sellafield has a number of technical projects being undertaken by the subject matter experts (SMEs) on the Site which need technical solutions to production problems. The Service Provider is required to give technical support in the context of detailed subject knowledge of Sellafield and the Site. It is therefore essential that the Service Provider has a wide range of experts in a number of metrology and physics fields. The Service Provider, when required, will lead, or evaluate some of these projects, including writing specifications and reports. These projects will cover a wide range of areas from the metrology of scales, temperature gradients within stainless steel containers, the decay of radio-nuclides, movement of radioactive sludge and the lifespan of stainless-steel coverings. Sellafield Ltd will also look for expert advice in specific fields of metrology regarding which technologies can provide the required

measurement capability, to undertake optioneering or to support the development of measuring capability on behalf of SL.

2. Training elements:

- a. The first category in this service area will be / is training on maintenance and metrology. As Sellafield seeks to improve its compliance with ISO 17025 and ISO10012 the users need to understand the level of uncertainties required and how these uncertainties are documented. The contractor will be required to assist users write and understand metrology procedures.
 - b. The second category is to provide education and training for new or novel techniques and equipment introduced by either the Service Provider or Sellafield.
3. On Site and laboratory calibration of test equipment, and a wide range of radioactive nuclides/ sources. The facility should be able to provide calibrations that are traceable to national standards.

The Service Provider will be able to provide to the Sellafield Site a mobile calibration facility to calibrate and check the profile of a wide range of and shapes of gamma and alpha/beta emitting sources. As part of this the Service Provider may be required to check the associated detection equipment.

Help and guidance will also be required for the calibration of items of conventional plant either on-site or at the Service Provider's premises.

The Service Provider's personnel must be technical experts on a wide range of subjects which will be investigated by the Subject Matter Experts in Sellafield over the period of the Agreement and shall include:

- the porosity of concrete, adhesiveness of coverings to stainless steel.
- temperature and pressure measurement within welded stainless-steel cans containing special nuclear material
- temperature measurement of breathable cans and Intermediate level waste packages
- the high accuracy remote imaging or the inside of storage cells and the long-term care of intermediate level waste packages such as stainless-steel boxes or stainless-steel drums filled with waste or concrete and nuclear fragments.

The Service Provider will be required in delivering the Services, to respond and accommodate the constantly changing business conditions, governance, and regulation of Sellafield.

The Service Provider must also be able to provide metrology help and support on a wide range of measurement and test equipment (MTE) and plant process equipment. Sellafield has over six thousand items of test equipment which require calibration and maintenance. This ranges from highly accurate scales to weigh nuclear material through to flow meters. The Service Provider will provide technical help where required to assist Sellafield in its understanding of the calibration processes and training in use/metrology. Sellafield Ltd has over four hundred thousand items of plant process equipment and again the contractor must be able to provide expert and independent advice where required on the metrology of these items.

Please note that calibration and maintenance of the MTE and plant process equipment is performed by another contractor and is not the subject of this Agreement.