**NNLC508 Remotely Operated Crawler Vehicle (Crawler ROV) Procurement**

**Request for Information (RFI)**

This exercise is a request for information as part of a pre-tender market consultation, it does not constitute a formal procurement process. The purpose of this exercise is to assess the capabilities within current markets to delivery this service. National Nuclear Laboratory (NNL) may choose to contact suppliers because of completing this questionnaire, if you wish for us not to contact you please make this clear on your questionnaire response.

We are not requesting quotations at this stage, although some questions request examples of previous contracts. This is to understand the indicative cost of any future procurement, but respondents will not be held to these values.

As part of potential upcoming work NNL requires a series of parts which will later be integrated into chassis to comprise a complete ROV with declaration of conformity. To meet this goal, NNL intends to procure the integrated ROV and control components required. This crawler ROV must include the below components:

* 2 off stainless steel crawler tracks;
* 1 off waterproof (IP68) Pan-Tilt-Zoom (PTZ) camera;
* Min 2 off waterproof (IP68) spotlights with total brightness greater than 2000 lumens;
* Parallel wiring harness.
* Additional optional components:
  + Waterproof rear view camera;
  + Electric linear actuator (PAYLOAD);

The above parts must be supplied alongside one or more control system(s) which the end user will use to operate the crawler and its tools. The controller(s) must allow the end user to perform the following operations:

* Dim / brighten lighting or turn on/off lighting;
* Control the ROV movement;
* Control the PTZ camera and spot lights;
* Control the rear view camera / linear actuator (if supplied);

Finally, the ROV must be supplied alongside the following supporting equipment / functionality:

* DVR to record the screen(s);
* At least one TV monitor to display the image from the PTZ (and rear view camera if supplied)
* Flexibility in the layout/configuration of the control system;
* 150m long abrasion resistant tether cable for the powered ROV components;
* Cable management system (optional);

The ROV components will later be installed onto a separately designed chassis, so the existing chassis must either a) not be included, or b) be easily separable from the components currently installed onto it (e.g. components must not be welded on).

The tracks are the most vital component and must be / have: proven to work in a nuclear environment, waterproof to ≥10m (IP68), deep tread, a payload of ≥65kg, a pulling capacity of ≥30kg (when at its maximum payload), an operating temperature of 0-40 °C, be smaller than 750 x 100 x 250 mm, and be available in stainless steel.

Finally, the entire ROV must be CE marked or usually supplied with a declaration of conformity.

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| **Contact Information** | | | |
| Company Name |  | | |
| Address |  | Postcode |  |
| Name of person completing this form |  | | |
| Contact Details |  | | |
| Email Address |  | | |
| Phone Number |  | | |

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|  | **Relevant Experience** | |
| Have you worked with the Nuclear Industry before? |  | |
| Have you worked with the National Nuclear Laboratory before? |  | |
| Please detail up to three contracts where you have previously performed a project management function.  You should highlight who the contracting body is/was, the work carried out and the project management required. | Contract 1: |  |
| Contract 2: |  |
| Contract 3: |  |
| Please can you describe your company’s area of expertise. |  | |
| Please detail 1 or more examples of crawler ROV solutions which your company has previously manufactured / supplied. |  | |
| Please detail 1 or more examples of crawler ROV solutions which your company has previously supplied to the nuclear industry. |  | |
| Please detail examples of previous contracts that have required the supply of an ROV meeting the requirements stated on page 1. |  | |
| Please provide details of the tracks described in the examples above. |  | |
| Please detail examples of the types of documentation typically supplied with your crawler ROVs (manuals, drawings). |  | |
| Please confirm whether there are any elements of the ROV described on page 1 which would require additional effort from your company to meet. |  | |
| Is your company prepared to provide a (Rough Order of Magnitude) ROM cost to purchase the ROV as described above to support with the project approval stage? |  | |

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| **Procurement** | | |
| Are you on any frameworks operated nationally by Framework providers, for example:  CCS – Crown Commercial Service,  NHS SBS - NHS Shared Business Services  LUPC – London Universities Purchasing Consortium  Yorkshire Purchasing Organisation - YPO,  Eastern Shires Purchasing Organisation – ESPO  Dynamic Purchasing System (DPS) - NNL |  | |
| If yes, please provide the following information in relation to the framework. | Framework Provider |  |
| Framework Reference |  |
| If Lots, list all applicable |  |
| Do you have any internal or external pressures facing your business which would prevent you from tendering for this opportunity, should it become available after October 2023? |  | |

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| **Additional Comments** | |
| If you DO NOT wish to be contacted by NNL please write so here. Otherwise, you may provide any further information you think may be of use during this early market engagement exercise. |  |

**Please return this questionnaire to** [**david.brown@uknnl.com**](mailto:david.brown@uknnl.com) **before 17:00 on**

**Friday 25 August 2023.**