

LINC with Sellafield

Opportunity 14

**Work Package 14/2019 – Upgrade and CE
Marking of EPE Remote Handling Crane
Training Rigs**



THE OPPORTUNITY

Work Package 14/2019

Three Crane Brake Training Rigs with 4 brake unit were procured in 2014. CE marking was not part of the original specification. Following delivery of the training rigs we conducted a PUWER assessment and identified a number of shortfalls which require modification to be completed prior to allowing these rigs to be safely used.

The requirement is to address the PUWER concerns and modify the existing training rigs to meet the requirements of the Machinery Directive. The Crane Brake Training Rigs and Rope stores are to be delivered to Sellafield Ltd with CE Certification.

Statement of requirements:

We are looking for experienced companies with proven capability in Remote Handling Cranes and quality solutions for lifting equipment, which a strong track-record in this area.

Details:

- **Size:** The Crane Brake Training Rigs are mounted on portable workbenches, nominally 2m length, 1.5m wide and 1.3m tall (accounting for modules fitted on top)
- **Design:** Minimum of IP2X shall be expected for electrical works. Engineering design shall also consider minimal number of contamination traps as well as minimal and easy maintenance. Spare pieces such as wheels shall also be easily attainable. Compliance with Sellafield Ltd Engineering Standards below:

ES_1_2320_1	Plant Equipment – Design Guide for Indoor Mechanical, Control, Electrical and Instrument Enclosures – Appendix 2
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- **Locomotion:** Training rigs to be mobile with brakes to secure in position (i.e. castors)
- **Compliance:** CE marking is required of the final product due to its planned repeated use on a variety of Sellafield-owned facilities. COTS should be CE marked. MOTS should also be CE marked with all development or modification changes to be recorded. QC evidence should also be reported for MOTS.
- **Quality grade:** The Sellafield quality grade is 03 (see Appendix 4 for further detail).
- **Weight:** Modifications should not look to add significant loads to the rigs. Weight reduction where possible are encouraged. Items must be intrinsically stable and aim for a low centre of gravity that prevents tipping while rigs are being moved.
- **User interface:** Appropriate guarding, cable runs and interlocking should be developed as part of the design Risk Assessment as part of the solution to meeting the requirements of the Machinery Directive.
- **Cost:** The overall cost of the platform for all three rigs (inclusive of remote control unit and any other required equipment) should be competitively priced. The estimated range is in the region of £40k - £80k, however this is an indicative range only and is not restrictive.
- **Delivery:** The delivery of the system and associated training and handover would be required within 4 months of contract award.
- **Functions:** The crane brake rigs shall allow training to prove the trainee can deliver:
 1. Re alignment of drum, mechanical parts

2. Set up brake proving switches
3. Spring Adjustment (set to correct torque)
4. Torque testing
5. Strip/ rebuilds (change pin sets, pads)
6. Check parts for adequacy with MTE (Maintenance Test Equipment)
7. Visual indication of voltages and currents
8. Ability to introduce electrical faults
9. Easy, safe access to measure electrical parameters

Deliverables:

1. Document Pack including (but not limited to):
 - a. CE certificates
 - b. QC evidence
2. Supply the Ground Modified rigs CE marked. This includes collection from Sellafield Ltd, modification and CE marking, and delivery back to Sellafield Ltd.

Proposed Terms and Conditions:

Any contract (if any) placed subsequent to this challenge will be subject to the following standard form of contract: **CFMT 104 LINC Professional Services**

Proposal Requirements

Would SMEs who are interested in this opportunity please provide a proposal addressing the following:

1. A statement demonstrating understanding of the Statement of Requirements, how it is envisaged they will be delivered and why you believe you are best placed to support Sellafield Ltd on this opportunity - **No more than 2 sides A4, plus an additional 1 side of A4 for sketches / images.**
2. Details of the proposed resources including key roles, names, relevant experience and details of case studies where similar work has been performed before, including results realised and reference contacts which may be called upon - **No more than 3 sides A4**
3. A proposed maximum target cost to produce the deliverables – please **complete the pricing schedule.**

These proposals will be reviewed by Sellafield Ltd against the criteria set out in Appendix 1 and we will engage further and facilitate collaboration with those who show the greatest potential in meeting our requirements.

Your proposal for this opportunity must be in English, costs must be in Sterling and presented in writing.

Supporting Documents

- Appendix 1 – Evaluation Criteria.
- Appendix 2 – SL Engineering Standard ES_1_2320_1
- Appendix 3 – Contract Quality Requirements Manual
- Appendix 4 – Supporting doc 1
- Appendix 5 – Supporting doc 2
- Appendix 6 – Images of Crane Rig

Appendix 7 – Form of Contract – CFMT 104 LINC Professional Services
Appendix 8 – Pricing schedule

See CTM for access to all of the supporting documents.

Deadline

We will be holding an open telephone conference on **Friday 5 July 2019 at 15:00** for any of our registered LINC companies interested in submitting a proposal to ask questions. To register your interest in taking part in the call please email linc@sellafieldsites.com and we will provide you with dial in details. Please note that this call will be the last opportunity to ask questions on this opportunity.

This opportunity is only available to companies registered on LINC at the time of publication of this challenge. Registration for future challenges remains open.

To submit a proposal for this work package please upload all attachments to CTM no later than no later than **12:00 (GMT) on 24 July 2019**.