

ECC Scope Template - Early Supplier Engagement (ESE)

NEC4 engineering and construction contract (ECC)

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Document category: COMPULSORY

Environment Agency

NEC4 engineering and construction contract (ECC)

Scope

Project / contract information

| | |
|------------------------|---|
| Project name | Colne Barrier 10 Year Maintenance Programme |
| Project 1B1S reference | ENV6005900R |
| Contract reference | C5050 |
| Date | 11/11/2022 |
| Version number | Final |
| Author | |

Revision history

| Revision date | Summary of changes | Version number |
|---------------|--------------------|----------------|
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This Scope should be read in conjunction with the version of the Minimum Technical Requirements current at the Contract Date. In the event of conflict between this Scope shall prevail The *works* are to be compliant with the Scope

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WI 100 Description of the works

WI 101 Description of the works

Colne Barrier has two steel mitre gates which weigh just over 100 tonnes each. The barrier was constructed in the early 1990s, and the gates need to be lifted out for inspection and maintenance at 10 yearly intervals. Two previous lifts have taken place, in around 2002 and 2014, and the *Client* is now planning for the next lift. The size of the gates and the environment in which they are located mean that the lift is a complex engineering operation which uses specialist lifting equipment and needs detailed planning.

It was intended that the next lift would take place in 2024 but recent problems with the gates, which have required urgent repair works to be carried out by divers, mean that it is necessary to bring the lift date forward to 2023, if possible. The work has to be planned for Low Water Spring tides in July/August when flood risk is at a minimum because it is not practical to provide a temporary barrier whilst the gates are in the lifted position.

Although two lifts have already taken place during the lifetime of the barrier and the tasks that need to be carried out to disconnect and reconnect the gates and the hydraulic services to them are established, there is a considerable amount of preparatory design and planning work that has to be carried out beforehand that cannot simply be a 'cut and paste' of what went before. Each lift applies the lessons that were learnt from the previous lifts.

WI 102 Purpose of the Works

- To inspect the site and review all the available documents provided by the *Client* and produce a sufficiently detailed draft scope to enable a target price for all activities necessary for the gate lift to be agreed. These activities will include:
 - Lifting each gate and lowering it back into position. The gates will be lifted one at a time, and it is anticipated that each gate will remain in its lifted position for 2 weeks, one week each side of Low Water Spring tides at dates during Summer 2023 to be agreed with the *Client*;
 - Inspection of the accessible areas of the gates prior to the lift, and inspection of the remaining areas of the gates whilst the gates are in the lifted position;
 - Carrying out maintenance and repair works to the gates whilst they are in the lifted position.

The available documents include documentary records and photographs from previous gate lifts, design drawings of the barrier and lifting frames, and site information. It is envisaged that the gate lift works will be let under CDF Lot 2 Option C contract.

- This site inspection and document review will also reveal whether there are any gaps in the information available which would have to be resolved, possibly by further study or design work, to make the most effective use of the time available for inspection, repair and maintenance works whilst the gates are in the lifted position. Subject to the scope of this further study or design work and a review by the *Client*, such work may be instructed as a Compensation Event to this Early Supplier Engagement contract or it may form part of the scope for the contract for the gate lift works.
- There are also some additional physical preparatory tasks. The lifting frames used for the 2002 lift were condemned just prior to the 2014 lift. New frames were designed and built for the 2014 lift, which are stored on site. They will need to be inspected and tested in accordance with statutory requirements in sufficient time for any necessary repairs or modifications to be undertaken, or for the frames to be replaced.
- Also, the lifting anchor points cast into the barrier concrete will need to be tested in accordance with statutory requirements, and the order for the hire of specialist 'strand-

jacks' will need to be placed (currently around 6 month lead time but this will need to be confirmed)

- The *Contractor* has already visited the site but further site visits can take place by prior arrangement, and should be allowed for in the estimate for this commission.
- Attendance at monthly progress meetings, which may take place remotely. It is expected that there will also be frequent contact with the Client outside these formal meetings to enable the Client to remain apprised of the development of the scope and the 10 year programme (see below) and provide comment on a timely basis.
- Commence production of the Carbon Modelling Tool for the project
- Produce a risk register for the project, including convening and facilitating a risk workshop for the project team.
- The *Client* also wishes to develop a 10 year programme of maintenance works for the Colne Barrier site. This would encompass mechanical, electrical, hydraulic and civil engineering components of the barrier. An internal EA workshop has been held as a first stage of this process. Under this contract, the *Contractor* will be required to review and develop this programme to a detailed and priced level in consultation with relevant discipline specialists from within the Environment Agency.

1. General constraints on how the *Contractor* provides the works

WI 201 General constraints

Apart from inspections of the site and equipment on site, it is anticipated that the work carried out under this contract will take place at the contractor's own premises. Limited car parking is available at the site.

Site visits for inspection purposes may take place during normal working hours with prior notice to the *Client*.

WI 202 Confidentiality

The *Contractor* does not disclose information in connection with the *works* except when necessary to carry out their duties under the contract or their obligations under the contract.

The *Contractor* may publicise the services only with the *Client's* written permission.

WI 203 Security and protection on the site

The site is secure and any site visits by the *Contractor* will require prior notice providing details of the individuals who will be visiting the site. PPE is required for all visitors to the site.

WI 204 Security and identification of people

All people visiting Site must be in possession of valid ID in order to confirm their identity.

WI 205 Protection of existing structures and services

Not used.

WI 206 Protection of the works

Not used.

2. Contractor's design

Please refer to Clause W1 102, Purpose of the works

3. Completion

WI 401 Completion definition

The following are absolute requirement for Completion to be certified:

- An electronic copy of all relevant documentation to this commission
- Transfer to the *Client* databases of BIM data

WI 402 Correcting Defects

Not used

WI 403 Pre-Completion arrangements

Not used

WI 404 Take over

Not used.

4. Programme

WI 501 Programme requirements

The programme complies with the requirements of Clause 31.2 and also includes alignment and submission of the BEP and Master Information Delivery Plan (MIDP).

WI 502 Programme arrangement

Not used.

WI 503 Methodology statement

It is anticipated that methodology statements, including any specific requirements for resource information will be produced as part of the gate lift contract but the *Contractor* is required to identify any significant differences in the proposed lift method from previous lifts at the earliest opportunity.

WI 504 Work of the *Client* and Others

Not used.

WI 505 Information required

A schedule of information required for this commission will be developed by the *Client* in conjunction with the *Contractor* during this contract.

WI 506 Revised programme

Not used

5. Quality management

WI 601 Samples

Not used

WI 602 Quality Statement

Not used

WI 603 Quality management system

Not used

WI 604 BIM requirements

The BIM Information Manager is the *Client* Project Manager

6. Tests and inspections

Not used.

7. Management of the works

In managing the service, the *Contractor* shall follow all the requirements as set out in the Collaborative Delivery Framework (CDF) schedules and the relevant content of the Minimum Technical Requirements.

The *Contractor* should actively contribute to the risk register, project efficiency register, carbon tool, stakeholder engagement plan and lessons learnt log, as appropriate

The *Contractor* shall produce monthly financial updates and forecasts and expenditure profile, for the contract, meeting the *Client's* project reporting timetable. Monthly financial updates and forecasts to meet *Client* deadlines provided by no later than the 10th day of each month or otherwise agreed at the project start up meeting

WI 801 Project team – Others

Environment Agency Senior User
Others to be notified as appropriate

WI 802 Communications

The *Contractor* will be required to attend monthly progress meeting and other meetings as necessary. It is anticipated that most meetings will be held remotely.

The *Contractor* is to make full use of the *Client's* web-based project collaboration tool. Whenever practical all project and contract communications and records are to be distributed and stored using this project collaboration tool.

8. Working with the *Client* and Others

WI 901 Sharing the Working Areas with the *Client* and Others

The Colne Barrier site is fully operational 24 hours a day, 365 days a year. Whilst every effort will be made by the *Client* to enable the *Contractor* to conduct a planned site visit, the operational needs of the *Client* will take priority at all times. This may result in the site visit being curtailed or cancelled at short notice.

WI 902 Co-operation

Not used

WI 903 Co-ordination

Not used

WI 904 Authorities and utilities providers

Not used.

WI 905 Diversity and working with the *Client*, Others and the public

Not used.

9. Services and other things to be provided

Not used

10. Health and safety

Health, Safety and Wellbeing (HSW) is the number one priority of the *Client*. The *Contractor* shall promote and adopt safe working methods and shall strive to deliver solutions that provide optimum HSW to all.

The contractor will be required to comply with the Environment Agency SHEW Code of Practice, and the Colne Barrier site rules when visiting the Colne Barrier site.

The *Contractor* shall fulfil the Principal Contractor (PC) role and discharge the duties in accordance with the requirements of the Construction (Design and Management) Regulations 2015 and in particular regulations 12, 13, 14, 15 and part 4.

11. Subcontracting

The *Contractor* may subcontract work in accordance with the Framework agreement following discussion and agreement with the *Client*.

12. Title

Not used.

13. Accounts and records (Options C and E)

WI 1501 Additional Records

Clause 52.2 (Option E) list the additional records to be kept by the *Contractor*. This may include but not be limited to the following:

Timesheets and site allocation sheets,

Equipment records,

Forecasts of the total Defined Cost, (Forecasts are to include, but not be limited to costs to date, costs to completion including detailed breakdown of staff, sub-contract and major material items)

Specific procurement and cost reports

The format and presentation of records to be kept are to be accepted by the *Client*.

Client's work specifications and drawings

WI 1701 *Client's* work specification

The *Contractor* will deliver the works in line with the Minimal Technical Requirements version 12.

WI 1702 Drawings

Not used.

WI 1703 Standards the *Contractor* will comply with

The *Contractor* should carry out their work using the following guidance.

| Ref | Report Name | Where used |
|-----|---|------------|
| | Carbon Planning Tool | |
| | 300_10 SHE handbook for managing capital projects | |
| | 300_10_SD27 SHE Code of Practice | |

APPENDIX A List of Existing Drawings

Ref B20 005 02 BAU 5260-02m Colne Barrier Document Register