Maritime & Coastguard Agency

REPLACEMENT GENERATOR AND ANCILLARY EQUIPMENT AT HOLYHEAD CGOC
Contract Reference: TCA 3/7/1255

Schedule 2 – Requirements Specification

Requirement Overview

Most of the existing equipment at the Holyhead CGOC is at or beyond the recommended economic life. Several elements of the plant are approximately 40 years old, and you are invited to submit a tender for the works outlined below.

Requirement

The tender must include all sundry items required to fully complete the entire installation. All items are to be installed in accordance with the manufacturer's guidelines.

All disturbed surfaces must be made good and all waste arising from the works are to be disposed of by the contractor in accordance with relevant regulations.

Note: Elements such as cable runs and distances to switchgear are currently best guesses and not accurate.

Schedule of Works

• Provision and installation of hire generator for duration of the works to ensure the site is covered for power outage

• Provision and installation of a new generator to be placed in exact same location as the existing set that is being removed. 3 phase 20 kVA open generator set with generator controller, battery charger, engine heater, electronic governor, and integral fuel tank (24 hour, double bunded, run tank required). Tenderers should provide an optional cost for a canopied generator set.

• New generator to be fitted with Deepsea unit with a new ATS panel in either the generator or switchgear room

• The new generator should be able to be fuelled with gas oil (red diesel), white diesel or HVO fuel (Biodiesel).

• Clearing of all existing items - generator, exhaust, duct, all fuel pipework in room.

• Dispose of in an environmentally friendly manner and in accordance with Regulations

• New Automatic Transfer switch integrated with Bypass switch - it is likely that this would need to be made specifically to replace the existing (possibly bespoke)

• New load bank test panel

• New air outlet duct

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- New cabling from Automatic Transfer Switch to generator
- New fuel pipework (flow and return) and pump system to transfer fuel from tank to generator
- Fuel polisher to be fitted to the tank or pump system.
- Exhaust system to replace existing.
- A telemetry box fitted in the building to warn the Operations Room staff of any alarm activations.
- All telemetry cables, cable management, tray, glands, etc
- Commissioning using resistive load bank upon completion.
- Annual load bank tests for following five years.

Health and Safety

The works to be undertaken under the full remit of the CDM Regulations 2015 but at this stage we do not anticipate that the project will be notifiable.

Guarantee

We regard warranties as an important component of achieving overall best value for money. Full details of any warranties on the tendered equipment are required, including the period of cover. We would also like to know the length of the guaranteed coverage and how much it would cost to extend the period, i.e., if the guarantee period is one year, please provide a cost to extend this to two years, three years, and four years. Your response should also include details of response times where possible.

Delivery

Tenderers should state in their tender their lead time for commencing work and the expected time on site for completion of all works and handover to the MCA.

Social Value Considerations

Social Value considers the additional benefit created in the delivery of a goods or service contract which has a wider community or public benefit. It extends beyond the value delivered as part of the primary contract activity and goes wider to improvements to the ‘economic, social and environmental’ well-being of the local area.

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Quality Assurance Requirements

All works should be completed to a high standard, fit for purpose and in accordance with current British Standards BS ISO 8528-1:2018, industry best practice and relevant Regulations for each work element. Any electrical work is to be undertaken by a NICEIC or equivalently accredited electrical engineer.

Service Conditions and Environmental Factors

The MCA is committed to sustainable procurement. This means making the necessary decisions to protect our environment and to operate its procurement activity in an economically, socially, and environmentally responsible way. Tenderers should indicate ways in which their organisation promotes and practices sustainable development and how this can impact on this contract.

Consideration should be taken to account for the following areas:

Origin and recycled/recyclable content of materials

- Tenderers should detail the quantities used and recycle content of the product.
- Recyclability of product once it has reached its end of life.
- Type of paints and coverings used.

Transport mode selected for freight

- Tenderers should detail options to identify and promote measures to reduce emissions during transport of goods. Including rail freight or low emission/fuel efficient heavy goods vehicles

More information on the environmental consideration can be found at:

https://www.gov.uk/government/policies/making-sustainable-development-a-part-of-all-government-policy-and-operations

https://www.gov.uk/government/collections/sustainable-procurement-the-government-buying-standards-gbs

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Management and Contract Administration

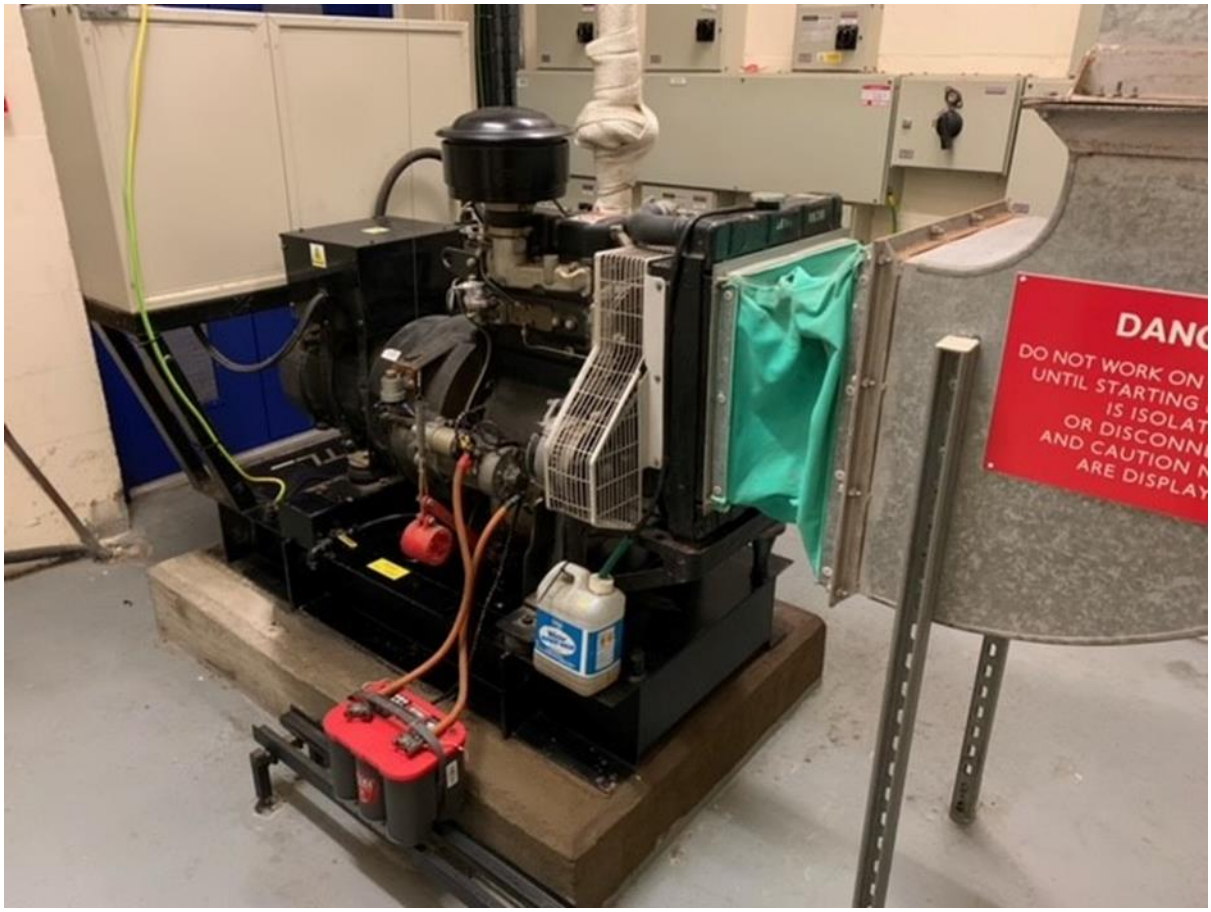
The contractor is to provide a handover file for the works, including copies of any Electrical Safety Test Certificates, maintenance/servicing information, building control certification, etc.

The contractor is to pay the necessary fees to all associated sub consultants/ contractors, i.e., building control etc. – (think about where this should sit – possibly in payment schedule)

Training / Skills / Knowledge Transfer

Tenders should allow for full training of at least two members of staff on the operation of the system.

Existing Generator That Needs Replacing:



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Existing Generator That Needs Replacing:

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Existing Control Panel That Needs Replacing:

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Existing Generator Fuel Tank That Needs Replacing: