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Planning

Thames Barrier Mirrlees Blackstone Engines Three-Quarter Life Survey

Defra Network eTendering Portal

F01: Prior information notice

Prior information only

Notice identifier: 2022/S 000-022582

Procurement identifier (OCID): ocids-h6vhtk-035ed6

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Section I: Contracting authority

I.1) Name and addresses

Defra Network eTendering Portal

17 Nobel House

London

SE7 8LX

Email

lu.mao@environment-agency.gov.uk

Telephone

+44 2072385921

Country

United Kingdom

NUTS code

UK - United Kingdom

Internet address(es)

Main address

<https://defra.bravosolution.co.uk/>

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

National or federal Agency/Office

I.5) Main activity

Environment

Section II: Object**II.1) Scope of the procurement****II.1.1) Title**

Thames Barrier Mirrlees Blackstone Engines Three-Quarter Life Survey

II.1.2) Main CPV code

- 71333000 - Mechanical engineering services

II.1.3) Type of contract

Services

II.1.4) Short description

The three Mirrlees Blackstone engines (ESL16 twin bank engine) installed at Thames Barrier are fast approaching their anticipated three- quarter life survey .

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 71333000 - Mechanical engineering services

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

II.2.4) Description of the procurement

The following inspections and component overhaul are proposed , in order to enable the engines to be suitable for a further 10–15-year period.

1. Nodal Damper Coupling (NDC) fluid level check
2. Gearbox bearing and final alignment verification
3. Cylinder Liner Nose O-ring Renewal
4. Liner deglazing and Piston Ring Pack replacement
5. Cylinder Head Decarbonising and Pressure Test
6. Jacket Water Pump.
7. Standard Service Procedures

Within procedures 1 – 6 carry out standard service work to include:

- Recalibration of fuel injectors (does not include nozzle replacement)
- Pressure testing of internal fuel system
- Renewal of lube oil filter elements (engine)
- Renewal of lube oil filter elements (gearbox)
- Renewal of fuel filter elements

- Re-setting of exhaust valve tappet clearances
- Visual Inspection of internal pipework
- Visual Inspection of camshaft assembly and drive gear train
- Visual Inspect all coolers and heat exchangers for external leakages
- Operational check and adjustment of mechanical overspeed
- Operational check and adjustment of decompression system
- Renewal of all crankcase and camshaft door joints
- Check and record crankshaft deflections
- Measure and record crankshaft end float
- Operational check and adjustment of internal and external fuel rack linkage
- Operational check of engine and gearbox lube oil pre-prime system

8. Recalibration of on engine sensors

9. Re-commissioning / load test

The engineer/s working on the project must have in-depth knowledge of ESL 16 twin bank engines, with proven evidence of experience. The successful supplier will provide spares when required, within a reasonable lead time.

The preferred supplier must be CTC (counter terrorist check) cleared prior to contract award.

II.3) Estimated date of publication of contract notice

12 December 2022

Section IV. Procedure

IV.1) Description

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: Yes