



**UK Research
and Innovation**

Ove Arup & Partners Limited

8 Fitzroy Street

London

W1T 4BJ

Attn: [REDACTED]

By email to: [REDACTED]

Date: 10 January 2024

Your ref: N/A

Our ref: UKRI-1800_14

Dear Sirs,

Award of call-off Contract for the supply of Services to undertake NERC Shorepower Environmental Materiality Review as defined in Annex 1 under framework agreement dated 27 June 2022 made between Ove Arup & Partners Limited (the “Supplier”) and United Kingdom Research and Innovation (“UKRI”) (the “Agreement”)

As you know, the Agreement anticipates that UKRI may from time to time agree call-off contracts with you.

This letter (“**Contract Award Letter**”) sets out the basis on which we propose to award a call-off contract to you. By signing and returning this Contract Award Letter on behalf of the Supplier, you will be entering into a call-off contract on its terms and conditions (which is a “**Contract**” for the purposes of the Agreement).

The Contract is made under the Agreement and the entirety of the Agreement’s provisions and Schedules are hereby incorporated in the Contract in full. Without limiting the incorporated provisions, all terms in the Contract shall have the meanings given in the Agreement unless otherwise provided. In the event of any conflict between the provisions of the Agreement and those of the Contract, the provisions of the Contract will prevail.

The Contract and the Agreement are the entire basis on which UKRI proposes to contract with the Supplier. Please do not attach any Supplier terms and conditions to this Award Letter as they will not be accepted by UKRI and may delay conclusion of the Contract.

For the purposes of the Contract, UKRI and the Supplier agree as follows:

Term

- 1 Contract Commencement Date: 10 January 2024
- 2 Contract Expiry Date: 15 March 2024

Description of Goods and/or Services

- 3 The Goods and/or Services to be delivered are as per Specification in Annex 1.
- 4 The Specification of the Goods and/or Services to be delivered, and any applicable Deliverables, is as set out in the Annex to this Contract Award Letter.

Charges & Payment

5 The Charges for the Goods and/or Services shall be as set out in Annex 2 of this Contract Award Letter.

Special Terms and Conditions

NOT USED

Notices, Liaison and Key Personnel

6 The address for notices of the Parties shall be as set out in the Agreement.

7 The Key Personnel shall be as set out in Schedule 4 of the Agreement [and shall also include the following individuals]:

Key Personnel	Role in the performance of this contract
FOIA Section 40 Personal Information	Contract Manager
FOIA Section 40 Personal Information	NERC Sustainability lead
FOIA Section 40 Personal Information	Project Manager, NERC Major Programmes
FOIA Section 40 Personal Information	Senior Consultant, Maritime, Arup
FOIA Section 40 Personal Information	Framework Director
FOIA Section 40 Personal Information	Framework Manager
FOIA Section 40 Personal Information	Task Manager

8 For general liaison your contact will continue to be FOIA Section 40 Personal Information or, in their absence FOIA Section 40 Personal Information

9 Disputes shall be escalated for resolution as set out in the Agreement.

We thank you for your co-operation to date, and look forward to forging a successful working relationship resulting in a smooth and successful supply of the Goods and/or Services. Please confirm your acceptance of the award of this Agreement by signing and returning the enclosed copy of this letter to FOIA Section 40 Personal Information. No other form of acknowledgement will be accepted. Please remember to quote the reference number above in any future communications relating to this contract.

Yours faithfully,

Signed for and on behalf of **United Kingdom** FOIA Section 40 Personal Information

Signature:



Name:

FOIA Section 40 Personal Information

Position:

Commercial Business Partner

Date:

10 January 2024

We accept the terms set out in this Contract Award Letter

Signed for and on behalf of **Ove Arup** FOIA Section 40 Personal Information

Signature:



Name:

FOIA Section 40 Personal Information

Position:

Director

Date:

10/01/24

Annex 1 – The Specification

Background:

Organisation: UK Research and Innovation is an entity that brings together nine partners to create an independent organisation with a strong voice for research and innovation, and a vision to ensure the UK maintain its world-leading position in research and innovation. More information can be found at www.ukri.org.

About NERC

The Natural Environment Research Council (NERC) is the largest funder of environmental science in the UK. We invest £300 million each year in research, training and innovation through UK universities and research centres. Our scientists study and monitor the whole planet from pole to pole, from deep Earth and oceans to upper atmosphere and space. Through collaboration with scientific partners, business and policy-makers, our science supports sustainable economic growth and improves public wellbeing. Our Headquarters in Swindon provides the corporate policy, planning and administrative focus for NERC.

NERC (alongside all UKRI partners) has committed to reach net zero operational carbon emissions by 2040. In addition, NERC has set two science informed interim carbon targets from the 17/18 baseline – 40% by 2025, 70% by 2035.

Over 72% of NERC's operational carbon emissions arise from fuel consumptions of its three research ships:

- RRS Sir David Attenborough – operated by British Antarctic Survey (BAS)
- RRS James Cook – operated by the National Oceanography Centre (NOC)
- RRS Discovery – operated by the National Oceanography Centre (NOC)

NERC has an established carbon pathway programme of which there is a dedicated marine work package focused on reducing marine carbon emissions while maintaining marine scientific capability – world leading science in a low carbon way. Shore Power has been identified as an option for reducing fuel consumption, noise, vibrations, and emissions whilst vessels are in port. Shore power refers to the use of electrical power from shoreside sources, rather than the ship's diesel generators, while the vessel is in port. The project is focused on

shore power at the National Oceanography Centre in Southampton, supplying power to the RRS James Cook and RRS Discovery when the vessels are in port. Shore Power has the potential to contribute to NERC's second interim carbon target.

At present NERC does not have a clear picture of the wider environmental and carbon impact of shore power. This picture is important to understand whether shore power will support NERC achieving its carbon reduction target and any wider environmental impacts e.g., to air quality.

Scope of work:

The supplier is to develop a clear holistic understanding of the environmental and carbon impact of shore power in relation to two vessels (RRS James Cook and RRS Discovery).

The focus for this assessment is the last 24 months and 10-year outlook. This is a desk-based exercise involving interviews with ship operators, materiality assessment and document review. The review is to answer the following questions:

- What are the potential material environmental impacts (positive and negative) of a shore power installation at NOC Southampton?
- What is the predicted headline annual carbon impact (CO_{2e}) of a shore power installation at NOC Southampton and how does this contribute to our carbon targets
- What is the impact of the above prediction on site power use/ carbon generation and ship fuel use/carbon generation (the detail behind the headline figure)?
- What are the benefits/disadvantages of shore power versus running on low carbon biofuel (HVO) or MGO when vessels are alongside?
- What are the wider long-term risks and opportunities associated with shore power e.g., local air quality?
- What are the wider long-term risks and opportunities associated with the status quo – running ships on MGO when alongside?
- What recommendations would you make to enhance environmental benefit/ minimise environmental harm associated with this project?
- Are there comparable projects which demonstrate good environmental practices and environmental outcomes?

Desired outcomes:

A summary report capturing the answers to the above with associated evidence base in word format. An executive summary in PowerPoint format.

NERC can:

- Make an informed funding decision on shore power.
- To enable comparison of shore power to HVO and MGO use alongside

- Support decision making on the 10-year outlook for the ships.

Timings:

Works to be completed by end February 2024.

Costing:

The supplier is to allow 6-8 weeks for completion of this activity and is to split the fee proposal as follows:

Activity	Fee (£)
Undertaking operator interviews – virtual	
Desk based review of project documentation / evidence	
Report generation and presentation – virtual	
Bi-weekly customer liaison meetings	

Suppliers are also to provide day rates and the CV for the proposed lead for this project.

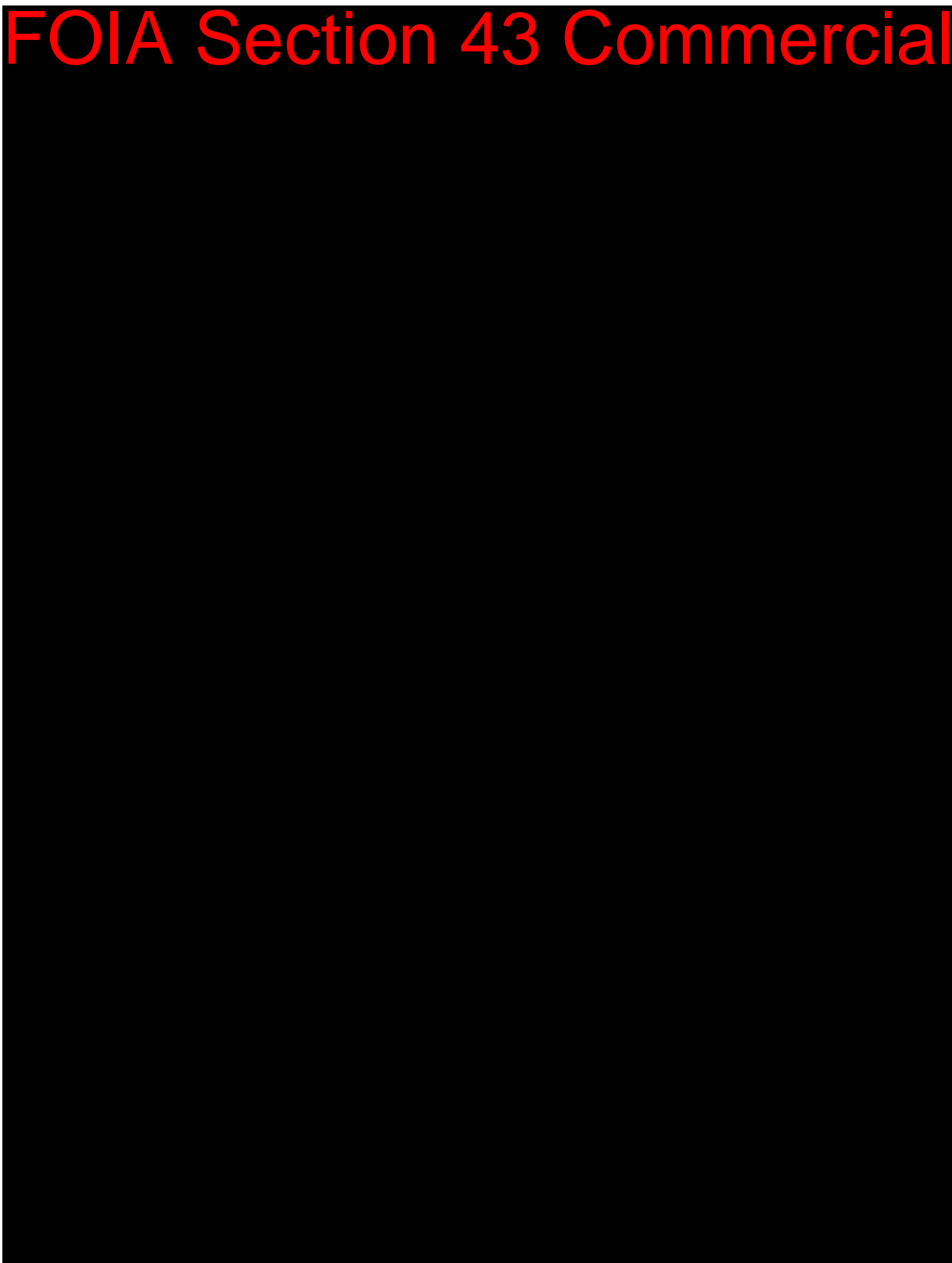
FOIA Section 40 Personal Information

Arup proposal

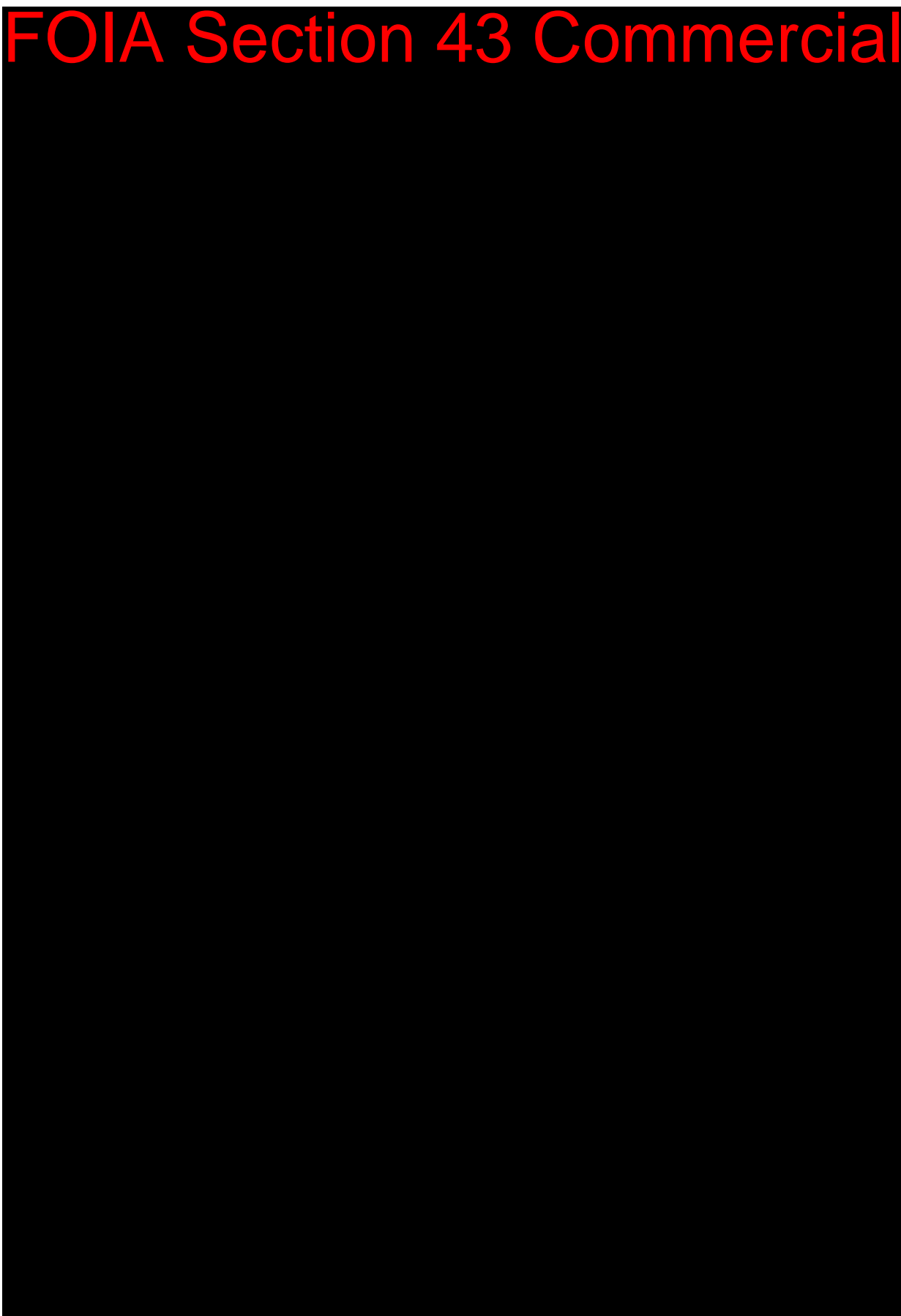
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FOIA Section 43 Commercial



FOIA Section 43 Commercial



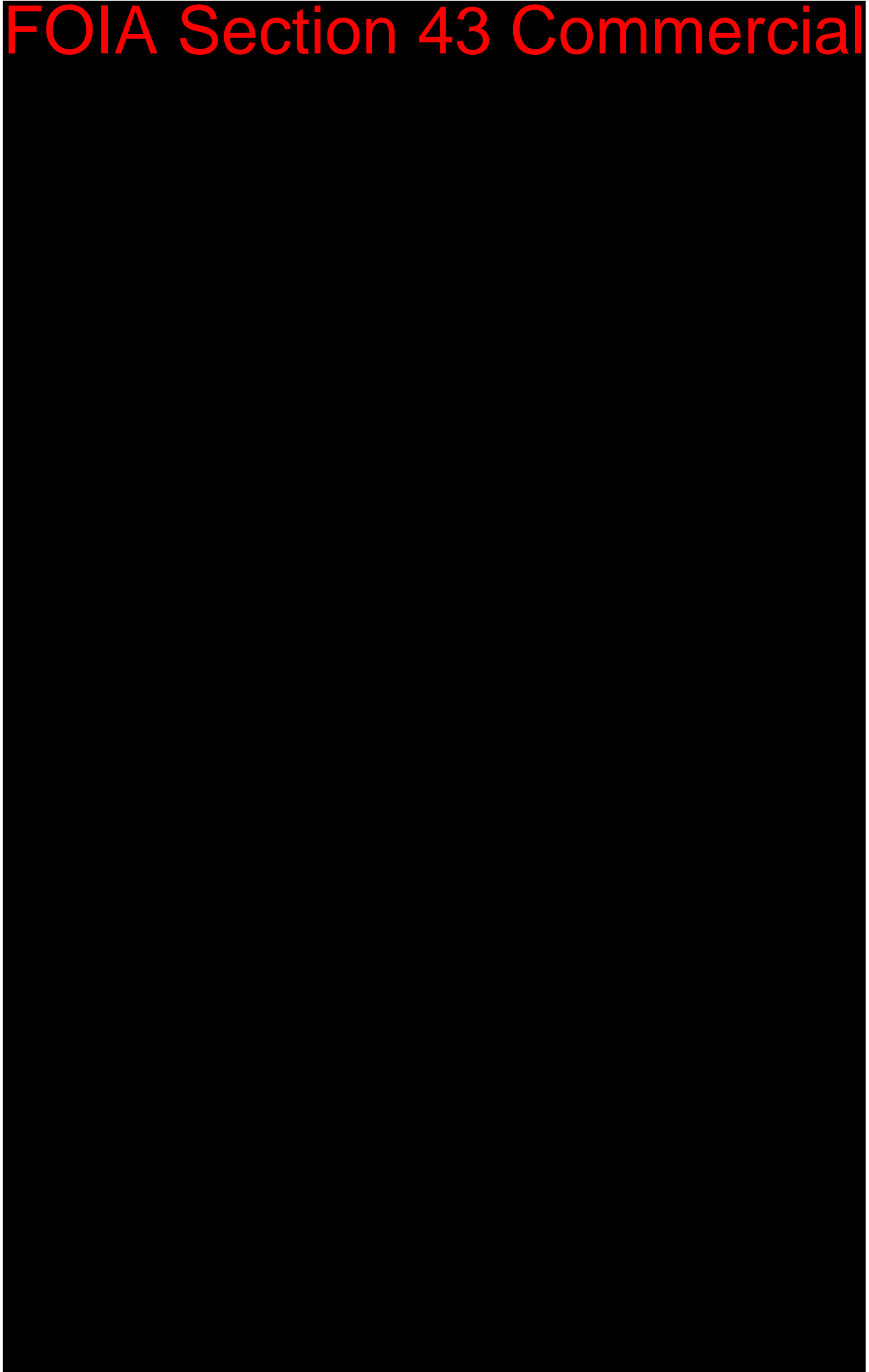
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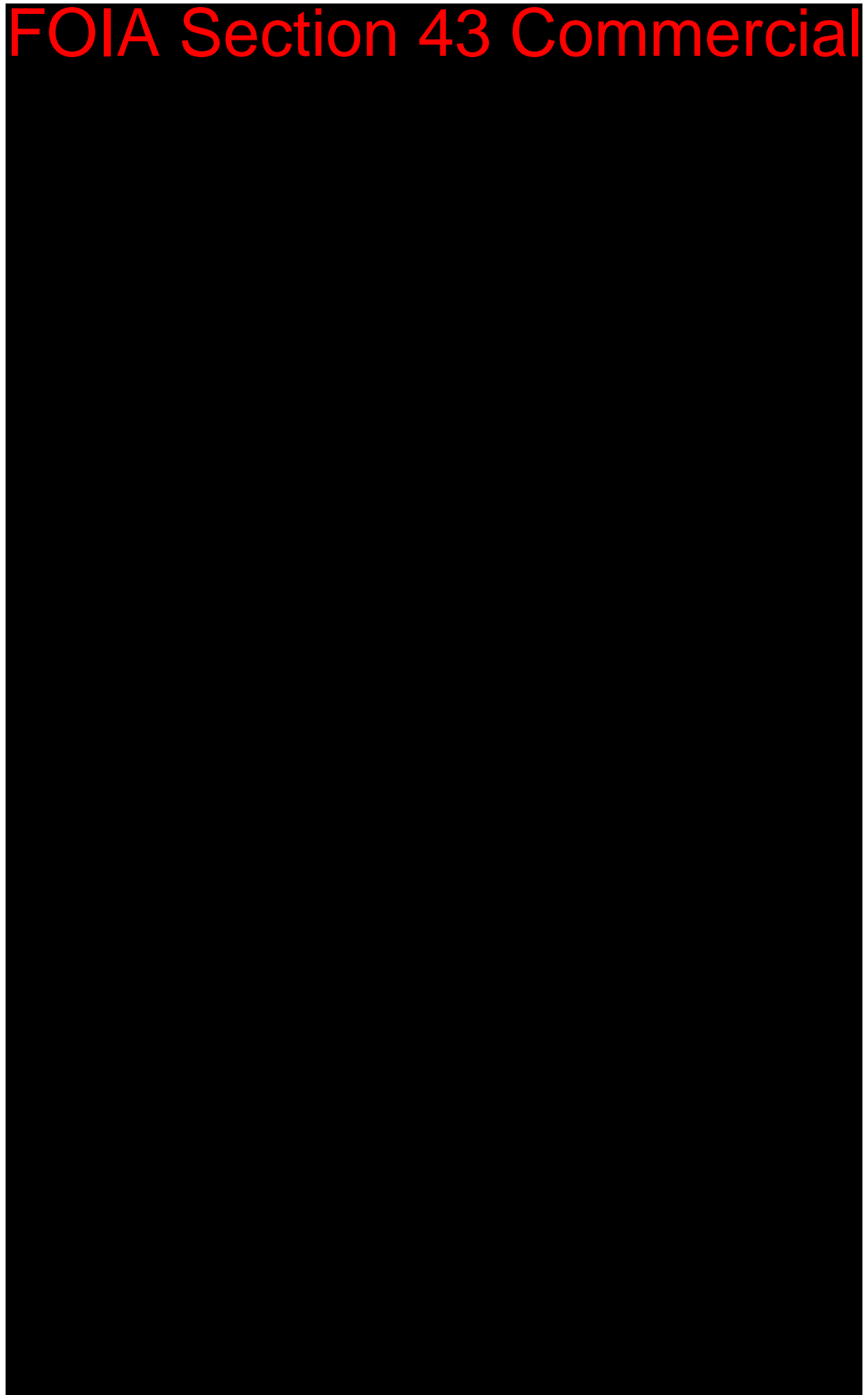
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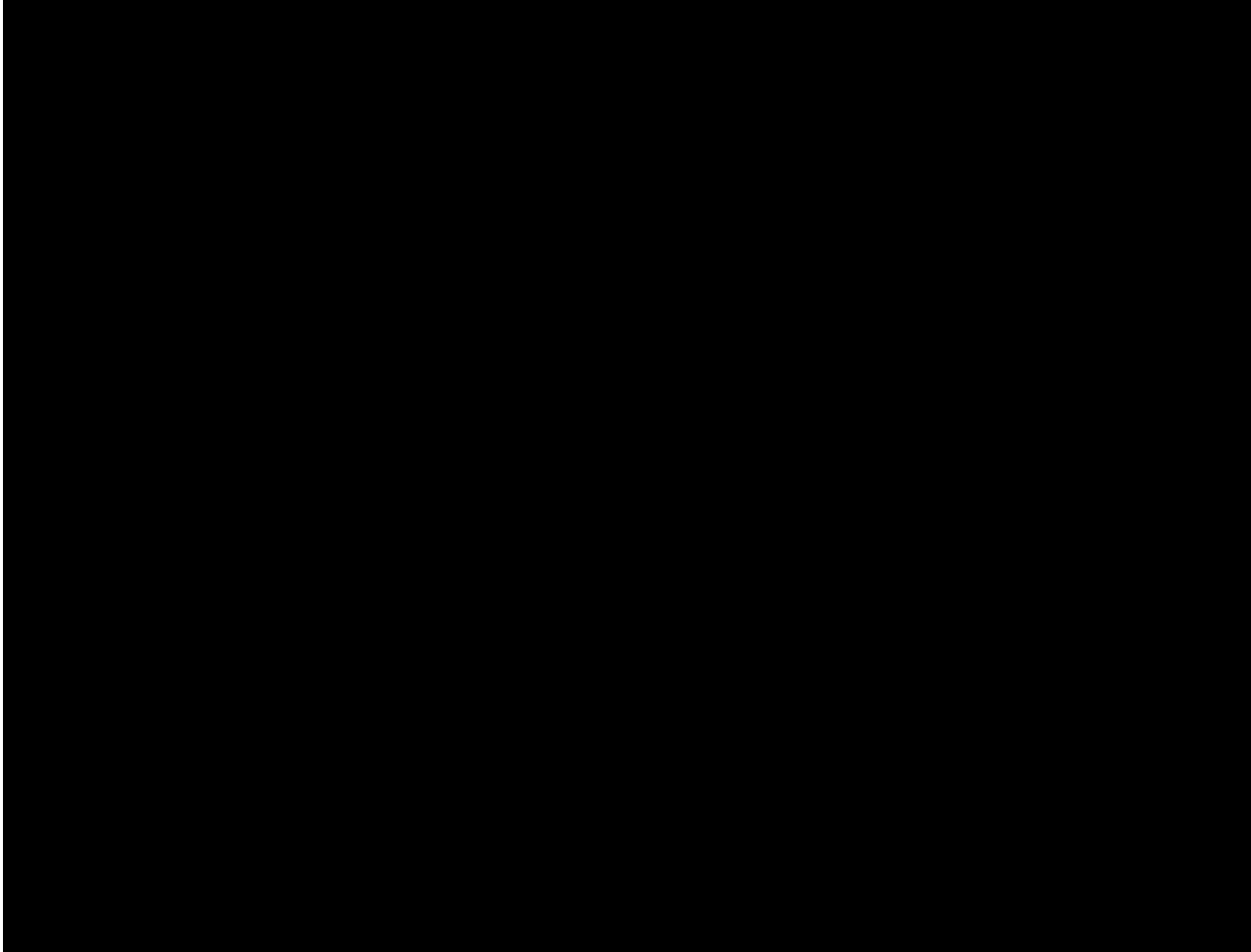


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Annex 2 – The Charges

1 The Charges for the Services shall be as set out in this Schedule 3.

2 The Total Charges shall not exceed: **£25,564** (excluding VAT), as set out below:

FOIA Section 43 Commercial



FOIA Section 43 Commercial

