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Tender

Invitation to Tender - QED-Morlais 76 Tidal Turbine Power Take-Off

QED Naval Ltd

F02: Contract notice

Notice identifier: 2024/S 000-006292

Procurement identifier (OCID): ocds-h6vhtk-043d3a

Published 27 February 2024, 3:52pm

Section I: Contracting authority

I.1) Name and addresses

QED Naval Ltd

2nd Floor Office (2/4), 11 Castle Street

Edinburgh

EH2 3AH

Email

enquiry@qednaval.co.uk

Telephone

+44 1315578049

Country

United Kingdom

NUTS code

UKM75 - Edinburgh, City of

Internet address(es)

Main address

www.qednaval.co.uk

Buyer's address

https://www.publiccontractsscotland.gov.uk/search/Search_AuthProfile.aspx?ID=AA30450

I.2) Information about joint procurement

The contract is awarded by a central purchasing body

I.3) Communication

The procurement documents are available for unrestricted and full direct access, free of charge, at

<https://qednaval.co.uk/invitation-to-tender-tidal-turbine-power-take-off/>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://qednaval.co.uk/invitation-to-tender-tidal-turbine-power-take-off/>

I.4) Type of the contracting authority

Regional or local authority

I.5) Main activity

Other activity

Renewable

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Invitation to Tender - QED-Morlais 76 Tidal Turbine Power Take-Off

II.1.2) Main CPV code

- 31213300 - Cable distribution cabinet

II.1.3) Type of contract

Supplies

II.1.4) Short description

This tender requires the delivery of a single turbine-generator PTO configuration in 2024 for testing before the remaining 2 PTO configurations are delivered to complete the Subhub ID arrangement for subsea deployment. The successful delivery of the tender described in this document could establish a relationship for future plans that include the initial extension from one Subhub ID to a mini-array of five (totalling 5 MW) followed by additional phases to a maximum array size of 30 MW.

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.3) Place of performance

NUTS codes

- UKL11 - Isle of Anglesey

II.2.4) Description of the procurement

QED Naval is an innovative company specialising in tidal energy technology. The company has developed disruptive technology that can be applied globally. This includes our self-deploying, submersible tidal platform, the Subhub Industrial Demonstrator (ID), that is proven to work efficiently and reliably with our subsidiary company Torcardo's horizontal axis tidal turbines.

The Torcardo T-3 is the next generation in Torcardo's turbine series, with the previous

iterations being used in the Oosterscheldekering storm surge barrier. The design prides itself on simplicity and reliability whilst maintaining effective tidal energy capture. The turbine has a 14m blade diameter, a passive bidirectional pitch system, and uses a split winding permanent magnetic synchronous generator.

QED's next generation of Subhub ID will feature 3 of Tocardo's turbine-generator pairs, which will be individually controlled and then combined into a single grid output within the Subhub ID's dry compartments under water.

QED Naval is looking for a supplier to provide the various power take-off circuitry to support this delivery of grid compliant power from the Subhub Platform Control Unit (SPCU) into the National Grid at distribution level.

The solution will accommodate 3 independently controlled T-3 turbines, each with a power rating of 350 kW and generator output voltage of 690 V. Each generator's PTO solution will be housed in a standard double electrical cabinet with dimensions 2000 x 1200 x 600 mm (excluding the shared transformer) if possible. The cabinets will be held within the SPCU. The SPCU consists of two sealed pressure hulls that have an inner diameter of 3 m and a length of 10 m. The solution will be supplied fully assembled and complying with necessary electrical standards. A supporting single line drawing of the complete system should also be provided.

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II.2.5) Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in days

30

This contract is subject to renewal

No

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: Yes

Description of options

Option for 14 more cabinet, subject to the project.

II.2.13) Information about European Union Funds

The procurement is related to a project and/or programme financed by European Union funds: No

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Open procedure

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

The procurement is covered by the Government Procurement Agreement: No

IV.2) Administrative information

IV.2.2) Time limit for receipt of tenders or requests to participate

Date

19 March 2024

Local time

12:00pm

IV.2.4) Languages in which tenders or requests to participate may be submitted

English

IV.2.7) Conditions for opening of tenders

Date

19 March 2024

Local time

12:00pm

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.2) Information about electronic workflows

Electronic ordering will be used

Electronic invoicing will be accepted

Electronic payment will be used

VI.3) Additional information

NOTE: To register your interest in this notice and obtain any additional information please visit the Public Contracts Scotland Web Site at

https://www.publiccontractsscotland.gov.uk/Search/Search_Switch.aspx?ID=759343.

(SC Ref:759343)

VI.4) Procedures for review

VI.4.1) Review body

QED Marine Project

2F4, 11 Castle Street

Edinburgh

EH2 3AH

Country

United Kingdom