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Tender

Hydrogen Renewable Energy Plant

The James Hutton Institute

F02: Contract notice

Notice identifier: 2023/S 000-031144

Procurement identifier (OCID): ocds-h6vhtk-040e0a

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Section I: Contracting authority

I.1) Name and addresses

The James Hutton Institute

The James Hutton Institute, Errol Road

Invergowrie

dd25da

Contact

allison sandilands

Email

allison.sandilands@hutton.ac.uk

Telephone

+44 1382568846

Fax

+44 3449285429

Country

United Kingdom

NUTS code

UKM71 - Angus and Dundee City

Internet address(es)

Main address

<http://www.hutton.ac.uk>

Buyer's address

https://www.publiccontractsscotland.gov.uk/search/Search_AuthProfile.aspx?ID=AA16142

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

www.publiccontractsscotland.gov.uk

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

www.publiccontractsscotland.gov.uk

I.4) Type of the contracting authority

Other type

Charitable status limited by guarantee

I.5) Main activity

Other activity

Scientific Research

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Hydroglen Renewable Energy Plant

Reference number

JHI 295

II.1.2) Main CPV code

- 45000000 - Construction work

II.1.3) Type of contract

Works

II.1.4) Short description

HydroGlen is a sustainable green hydrogen and climate positive farming community demonstration and agricultural research project, being developed by the James Hutton Institute & Partners (JHI) at the Glensaugh research farm near Fettercairn, Laurencekirk, Scotland.

HydroGlen will combine the on-site generation of renewable energy (utilising wind and / or solar generation) and hydrogen production via electrolyser, with energy storage of compressed hydrogen and electric battery. Vehicle refuelling for both hydrogen and electric vehicles is included in the concept, and the overall objective is for the full farm electricity, transport and heating fuel to be displaced by the HydroGlen system.

HydroGlen will provide a scalable and replicable model for farming and other rural communities to become self-reliant, low-carbon energy producers and exporters, generating 100%+ of their electricity, heating and transport fuel energy requirements from renewable sources.

JHI has a total budget of GBP3.5m (including VAT) for the HydroGlen project. The

feasibility of how the overall goals of the HydroGlen project can be achieved within the total budget of GBP3.5m (including VAT) will be discussed with bidders during dialogue.

A more detailed description of the proposed procurement and JHI's overall objectives for the HydroGlen project are set out in the Initial Descriptive Document, which is available at the address set out at section 1.3.

II.1.5) Estimated total value

Value excluding VAT: £3,500,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 44612100 - Gas cylinders
- 44612200 - Gas tanks
- 65200000 - Gas distribution and related services
- 31121330 - Wind turbine generators
- 31122100 - Fuel cells
- 09330000 - Solar energy
- 09332000 - Solar installation
- 09331000 - Solar panels
- 31400000 - Accumulators, primary cells and primary batteries
- 44610000 - Tanks, reservoirs, containers and pressure vessels
- 45100000 - Site preparation work
- 45113000 - Siteworks
- 65300000 - Electricity distribution and related services
- 71242000 - Project and design preparation, estimation of costs
- 24111600 - Hydrogen

II.2.3) Place of performance

NUTS codes

- UKM71 - Angus and Dundee City

Main site or place of performance

The James Hutton Institute

Glensaugh Farm

Laurencekirk

UK

AB30 1HB

II.2.4) Description of the procurement

JHI's overall ambition for the HydroGlen project is to demonstrate that it is possible to take an existing operational farm and make it 100% self-reliant based on a combination of on-site generated renewable energy, fuel cells and energy storage involving batteries and hydrogen. The site energy requirements include residential and commercial loads as well as the needs of planned electric vehicles and hydrogen fuel cell cars and machinery which will use HydroGlen as a testing facility. The objective is that by utilising renewable energy and hydrogen, the daily facility electricity demands are covered but as well that on-site hydrogen is generated through electrolysis with the net excess of renewable energy production. It is also intended that HydroGlen is operated in such a way, with a focus on modularity, that the HydroGlen solution can be scaled up or down in accordance with the individual requirements of other farms.

More specifically a successful outcome will entail HydroGlen producing sufficient renewable energy over a 3-month operational period (including commissioning) to demonstrate it has generated more than Glensaugh Farm's net energy usage equivalent over the same period via renewable energy generation sources, while producing green hydrogen via electrolysis and successfully compressing, storing, and then reconverting to electricity via fuel cell.

The operation of the commissioned HydroGlen project will not interfere with or materially disadvantage the normal operations on Glensaugh farm.

JHI wishes to procure a partner to progress the HydroGlen project over the course of 2024 and 2025. The Technical Specification will set out the successful outcome required for HydroGlen but will not mandate how that successful outcome will be achieved.

Bidders' proposals will be required to demonstrate that their bid solution meets the outcome-based goals of JHI but the overall design and approach to delivery (including recommended systems, key equipment capacity and configuration) will be for the bidder to specify.

Acknowledging that this is a proof-of-concept project, bidders will only be asked to commit to a fixed price for the initial design development work in their bids. However, as part of the technical (quality) submission, bidders will also be required to provide an estimated cost for the project which will be assessed by JHI for deliverability. Once the detailed design work has been completed, the contractor will be required to propose a fixed cost for the delivery of the HydroGlen project and will be obliged to procure the project for that fixed cost acting as the EPC contractor. The fixed cost must not be more than the total budget.

It is expected that bidders will want to use the concept design work undertaken on behalf of JHI by ITPEnergised and Thornton Tomasetti to develop their own proposals for the HydroGlen project subject to such proposals being capable of meeting the overall objectives of JHI for HydroGlen.

JHI has a total budget of GBP3.5m (including VAT) for the HydroGlen project. The feasibility of how the overall goals of the HydroGlen project can be achieved within the total budget of GBP3.5m (including VAT) will be discussed with bidders during dialogue and inform bidders' proposed solutions.

It is anticipated that the appointed EPC contractor will progress its preferred solution pursuant to the terms of the EPC Contract to an approved detailed and coordinated design (for which it will be responsible) and this design will then be delivered on a turn-key basis.

II.2.5) Award criteria

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

II.2.6) Estimated value

Value excluding VAT: £3,500,000

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

Duration in months

24

This contract is subject to renewal

No

II.2.9) Information about the limits on the number of candidates to be invited

Envisaged minimum number: 3

Maximum number: 4

Objective criteria for choosing the limited number of candidates:

Envisaged number of candidates: 3

Objective criteria for choosing the limited number of candidates:

Owing to character limitations in the Contract Notice not all criteria and information relating to this procurement can be included in this notice. The Objective and Non-Discriminatory Criteria are set out in full in the SPD Instructions which can be accessed through the website set out at Section 1.3. The SPD selection process will be carried out in 3 stages:

Stage One: Compliance Check and Exclusion Grounds (Mandatory and Discretionary) (Pass/Fail) – that the Bidder has submitted a complete and compliant SPD response; and whether any of the Bidder's, consortium members and/or reliance entities (if any) are in breach of the mandatory grounds for exclusion or, in the case of the discretionary exclusion grounds, are considered ineligible at the discretion of JHI, in accordance with Part III of the SPD and Regulation 58 of the Regulations.

Stage Two: Selection Criteria - Minimum Requirements (Pass/Fail) - that the Bidder meets the requisite economic and financial standing selection criteria deemed appropriate for the Project set out in Part 3 of the SPD Instructions; and meets the technical and professional ability selection criteria set out in Part 3 of the SPD Instructions.

Stage Three: Down Selection - Bidders who pass Stage One and Stage Two will have their SPD response scored in accordance with the Down Selection Criteria. The Down Selection Criteria are set out in Part 3 of the SPD Instructions. The Down Selection Criteria will be applied to all Bidders that pass Stage 1 and Stage 2 to reduce the number of Bidders that are invited to participate in dialogue.

It is JHI's intention that 3 but in any event not more than 4 Bidders achieving the highest scores will be invited to participate in the competitive dialogue process.

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: No

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 III. Legal, economic, financial and technical information

III.1) Conditions for participation

III.1.1) Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers

List and brief description of conditions

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III.1.2) Economic and financial standing

List and brief description of selection criteria

Full details can be found in the SPD and the SPD Instructions which can be accessed through the website referenced in section I.3 of this Contract Notice.

At least one Consortium Member or Reliance Entity (e.g. parent company guarantor) must meet the minimum economic & financial standing selection criteria on behalf of the Consortium to pass.

(4B1.2) SPD Statement:

Bidders will be required to have an average yearly turnover of a minimum of GBP1.5m GBP for the last 2 years. The average turnover stated shall be based upon the figures reported in the last 2 financial year's audited financial statements. The averages for the last 2 financial years shall be weighted equally.

Where, for any valid reason, the bidder does not have 2 year's audited financial statements available, JHI may accept other forms of documentation which it considers acceptable as proof.

III.1.3) Technical and professional ability

List and brief description of selection criteria

Full details can be found in the SPD and the SPD Instructions which can be accessed through the website referenced in section I.3 of this Contract Notice.

Where the Bidder is relying on the technical experience of a Consortium Member or Reliance Entity to meet the requirements of the Selection Criteria and/or Down Selection Criteria, the experience relied on must be consistent with the Consortium Member's or Reliance Entity's role under this Project.

The Selection Criteria and Down Selection Criteria will evaluate Bidders on the basis of:

Experience as an EPC contractor

Experience of involvement in projects integrating technologies

III.2) Conditions related to the contract

III.2.2) Contract performance conditions

SPD responses may be submitted by a single economic operator or a consortia. JHI reserve the right to require groups of economic operators to take a particular form or to require that one party has primary liability or to require each party to be jointly and severally liable. JHI reserve the right to disqualify any consortium which changes its composition after down-selection without JHI's prior consent.

III.2.3) Information about staff responsible for the performance of the contract

Obligation to indicate the names and professional qualifications of the staff assigned to performing the contract

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Competitive dialogue

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

The procurement is covered by the Government Procurement Agreement: Yes

IV.2) Administrative information

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

Date

22 November 2023

Local time

5:00pm

IV.2.3) Estimated date of dispatch of invitations to tender or to participate to selected candidates

1 December 2023

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

English

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.2) Information about electronic workflows

Electronic invoicing will be accepted

VI.3) Additional information

Bidders should note the requirements in relation to Consortium Members or Reliance Entities specified within the SPD Instructions.

All dates, timescales and values set out in this notice and the procurement documents are estimates only and therefore subject to change during the tender process, if required.

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=747700.

The buyer has indicated that it will accept electronic responses to this notice via the Postbox facility. A user guide is available at

https://www.publiccontractsscotland.gov.uk/sitehelp/help_guides.aspx.

Suppliers are advised to allow adequate time for uploading documents and to dispatch the electronic response well in advance of the closing time to avoid any last minute problems.

(SC Ref:747700)

Download the ESPD document here:

https://www.publiccontractsscotland.gov.uk/ESPD/ESPD_Download.aspx?id=747700

VI.4) Procedures for review

VI.4.1) Review body

Dundee Sheriff Court

6 West Bell Street

Dundee

DD1 9AD

Country

United Kingdom