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Tender

Rainwater Harvesting System at Bute Park

Cardiff Council

F02: Contract notice

Notice identifier: 2024/S 000-033809

Procurement identifier (OCID): ocds-h6vhtk-04addb

Published 18 October 2024, 3:15pm

Section I: Contracting authority

I.1) Name and addresses

Cardiff Council

County Hall, Atlantic Wharf

Cardiff

CF10 4UW

Contact

Bradley Moses

Email

highwayswasteandparks@cardiff.gov.uk

Telephone

+44 7494200504

Country

United Kingdom

NUTS code

UKL22 - Cardiff and Vale of Glamorgan

Internet address(es)

Main address

<https://www.cardiff.gov.uk>

Buyer's address

https://www.sell2wales.gov.wales/search/Search_AuthProfile.aspx?ID=AA0422

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://supplierlive.proactisp2p.com/Account/Login>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://supplierlive.proactisp2p.com/Account/Login>

I.4) Type of the contracting authority

Regional or local authority

I.5) Main activity

General public services

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Rainwater Harvesting System at Bute Park

Reference number

ERFX1008534

II.1.2) Main CPV code

- 42912310 - Water filtration apparatus

II.1.3) Type of contract

Supplies

II.1.4) Short description

Cardiff Council require the installation of a rainwater collection scheme for Bute Park Nursery. Works will include:

- Collect rainwater from two glasshouses to irrigate all glasshouse crops on site.
- Install a 9' x 4' ring corrugated steel tank, liner, steel roof and access hatches
- Install pump in rainwater collection tank
- Install pipes above ground
- Install Slow Sand Filter, to ensure the collected rainwater is sufficiently cleaned

II.1.5) Estimated total value

Value excluding VAT: £65,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 42912350 - Filtration plant equipment
- 42912310 - Water filtration apparatus

II.2.3) Place of performance

NUTS codes

- UKL22 - Cardiff and Vale of Glamorgan

Main site or place of performance

Bute Park, Cardiff

II.2.4) Description of the procurement

Bute Park Grows over 350K plants each year for the Council's Parks Department. To keep all these plants healthy, we use a significant amount of water for irrigation. Currently our water is fed by mains into a large storage tank before passing through a pump to the glasshouses.

New Scheme:

We have successfully bid for monies from One Planet Cardiff to install a scheme to collect and filtrate rainwater which falls on the nursery glasshouses to irrigate the plants we grow. Calculations based on rainfall from 2018-2022 estimate that there is a potential to collect 1738.6 m³ of water annually.

We propose to:

Install a rainwater collection tank

Replace and install new pipes on existing glasshouses to divert rainwater into new collection tank

Install a system to transfer water from new collection tank to existing water storage tank

Installation of a Slow Sand Filter to sterilise rainwater before it is used for irrigation

Carbon Reduction and OPC Benefits:

The main ecological benefit offered using rainwater collection systems is the reduction in the use of mains water which means that less water will need to be artificially drawn from the environment. Mains water is pumped long distances and heavily treated to make it potable.

One of the other ecological benefits of rainwater harvesting systems is that they lessen the load placed upon drainage systems.

Other Benefits:

Significant savings in water bills.

Could be used as an educational tool for water use as Nursery is the same site as the Bute Park Education Centre.

Project could be used as a trail to see if similar systems could be used on other council buildings with large surface area leading to significant rainfall collection potential.

Filtration system could lead to water freer of contaminants leading to better plant health and a reduction in chemicals used.

Location of the project: Bute Park, Cardiff

Crop: Ornamentals

Electrical grid parameters: 230–400-volt 50 Hz

Investigate options to collect rainwater from two glasshouses for potential use in irrigating all glasshouse crops on site.

Existing rainwater runs to waste outlets below nursery site

Existing irrigation water tank supplied with mains water

Based on data retrieved from the Bute Park weather station, it has been calculated that an average of 145 m³ of rainfall is available per month for collection from Glasshouses 4 and 6 (367 m³ maximum). Pro-rating these figures, daily indicative amounts of 4.8 m³ (average) to 11.8 m³ (maximum) have been used to size an appropriate collection and filtration tank size.

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: £65,000

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

Duration in months

1

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: 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.1.2) Economic and financial standing

Selection criteria as stated in the procurement documents

III.1.3) Technical and professional ability

Selection criteria as stated in the procurement documents

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

18 November 2024

Local time

12:00pm

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

English, Welsh

IV.2.7) Conditions for opening of tenders

Date

18 November 2024

Local time

12:00pm

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.3) Additional information

All information can be found at: <https://supplierlive.proactisp2p.com/Account/Login>

NOTE: To register your interest in this notice and obtain any additional information please visit the Sell2Wales Web Site at

https://www.sell2wales.gov.wales/Search/Search_Switch.aspx?ID=145388.

(WA Ref:145388)

The buyer considers that this contract is suitable for consortia.

VI.4) Procedures for review

VI.4.1) Review body

High Court

Royal Courts of Justice, The Strand

London

WC2A 2LL

Telephone

+44 2079477501

Country

United Kingdom