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Planning

Water Recycling (re-use) Plant: Design and Construction

Southern Water Services Ltd.

F04: Periodic indicative notice – utilities

Periodic indicative notice only

Notice identifier: 2023/S 000-010639

Procurement identifier (OCID): ocids-h6vhtk-03be64

Published 13 April 2023, 1:02pm

Section I: Contracting entity

I.1) Name and addresses

Southern Water Services Ltd.

Southern House

Worthing

BN13 3NX

Email

Paul.Knight@southernwater.co.uk

Telephone

+44 1903264444

Country

United Kingdom

Region code

UKJ - South East (England)

Internet address(es)

Main address

www.southernwater.co.uk

Buyer's address

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

I.3) Communication

Additional information can be obtained from the above-mentioned address

Electronic communication requires the use of tools and devices that are not generally available. Unrestricted and full direct access to these tools and devices is possible, free of charge, at

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

I.6) Main activity

Water

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Water Recycling (re-use) Plant: Design and Construction

Reference number

Prj_4039

II.1.2) Main CPV code

- 45232430 - Water-treatment work

II.1.3) Type of contract

Works

II.1.4) Short description

Southern Water is carrying out a Market Engagement exercise on the supply of Water Recycling (re-use) Services and invites potential suppliers to contribute to the market research. Southern Water's aim is to better understand market capabilities.

This is not a call for competition.

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 45232420 - Sewage work
- 45232421 - Sewage treatment works
- 45232424 - Sewage outfall construction work
- 45232431 - Wastewater pumping station
- 45252100 - Sewage-treatment plant construction work
- 45252120 - Water-treatment plant construction work
- 45252126 - Drinking-water treatment plant construction work
- 45252127 - Wastewater treatment plant construction work
- 45252210 - Water purification plant construction work
- 65120000 - Operation of a water-purification plant
- 65121000 - Water demineralisation services
- 65122000 - Water desalination services
- 65130000 - Operation of water supplies
- 71310000 - Consultative engineering and construction services
- 71311000 - Civil engineering consultancy services

- 71800000 - Consulting services for water-supply and waste consultancy
- 90490000 - Sewer survey and sewage treatment consultancy services

II.2.3) Place of performance

NUTS codes

- UKJ - South East (England)

Main site or place of performance

Kent, Sussex, Hampshire and Isle of Wight

II.2.4) Description of the procurement

Introduction

Southern Waters Water Resource Management Plan 2019 (WRMP19) proposes the provision of

Water Recycling to support existing water resources in drought events up to a 1 in 200 year

return period. From this plan there is a requirement for the Design, Construction and potential

operation of four Water Recycling Plants (WRPs). Southern Waters long term strategy, includes

further utilisation of the water recycling process, AMP8 and beyond. Two of the projects set to

pioneer the application of water recycling within the UK are to be constructed close to Maidstone

and one close to Littlehampton. The plants are required to be constructed and commissioned by

31 March 2027. Permitting of the discharge consent for the recycled or waste stream water has

not yet been commenced.

Project overview

Littlehampton WRP

The plant will treat flows from an existing coastal wastewater treatment works. The WRP will be

required to produce up to 25Ml/d of recycled water suitable for discharge to an inland water

course. Waste products will be treated and discharged to an existing long sea outfall.

The design and build of the transfer pumping station and main is the subject of other contracts.

Maidstone WRP

The plant will treat flows from an existing wastewater treatment works. The WRP will be required

to produce up to 21.5Ml/d of recycled water suitable for discharge to an inland water course.

Waste products will be treated and either discharged via an existing outfall or transferred to a

nearby WTW for dilution and treatment.

The design and build of the transfer pumping stations and mains is the subject of other contracts.

Services required:

. The design and construction of the Biological Treatment process, this is expected to be MBR or

equivalent to enhance the existing treatment. This shall include additional sanitary and nutrient

removal treatment prior to the Advanced Water Treatment.

. The design, construction and potential operation of Advanced Water Treatment ((AWT) e.g.,

Reverse Osmosis, UVAOP, Remineralisation). Design of the Advanced Water Treatment

shall

enable the discharge of the treated water into an inland water course.

. Definition of the design envelope of the flows and loads to be transferred by the pumping station and transfer pipelines contracts.

. Design services for the provision of information and in partnership with SW negotiate and

secure all permissions, permits and consents that may be required for the WRP, including any

amendments until the plant has achieved client acceptance.

. It is expected that the contractor will provide operational services over a defined period that will

correspond to the first replacement of major plant items including M&EICA components and this

is applicable to the AWT supplier as well. Training of operational staff will be expected and this

training package will include hands-on training as well as any necessary certification to operate

the AWT component competently.

Delivery Strategy

The proposed delivery route for the entire programme identifies three separate packages of

work:

. Biological Treatment process: design and construction

. Advanced Water Treatment; design, construction and operation

. Pipeline: design and construction

The pipeline is subject to existing Framework suppliers and provided for context to the

wider

programme of works. The Biological Treatment process is to be designed prior to the

confirmation of the Advance Water Treatment design envelope. Therefore, the programme is to

be tendered by scope, opposed to location, progressing with the packages of work at the earliest

opportunity.

The initial package of works will be for the design and construction of the Biological Treatment

process. Design services will also be sought as part of the same package of works to support the

development for the process parameters for the AWT, in addition to support in obtaining the

necessary permits to construct and operate the AWT.

II.2.14) Additional information

Additional information and questions SWS would welcome answers for can be obtained from our e-sourcing portal:

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

Southern Water will hold a virtual presentation commencing 9am on the 18th May. To attend the virtual presentation, please register your interest on our e-sourcing portal by 15 May 2023 to receive the invite to join via MS Teams.

II.3) Estimated date of publication of contract notice

1 December 2023

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: No