

Denmark-Viby: Sewage-treatment plant construction work
OJ S 158/2023 18/08/2023
Contract notice – utilities
Works

Legal Basis:

Directive 2014/25/EU

Section I: Contracting entity

I.1. Name and addresses

Official name: Aarhus Vand A/S

Postal address: Hasselager Allé 29

Town: Viby J

NUTS code: DK042 Østjylland

Postal code: 8260

Country: Denmark

Contact person: Mille Hjorth Schausen

E-mail: Mille.Schausen@aarhusvand.dk

Telephone: +45 89471344

Internet address(es):

Main address: <https://www.ethics.dk/ethics/eo#/3c179cd6-83fc-4af2-859a-67b61cfe1e6d/homepage>

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://www.ethics.dk/ethics/eo#/3c179cd6-83fc-4af2-859a-67b61cfe1e6d/publicMaterial>

Additional information can be obtained from the abovementioned address

Tenders or requests to participate must be submitted electronically via: <https://www.ethics.dk/ethics/eo#/3c179cd6-83fc-4af2-859a-67b61cfe1e6d/homepage>

Tenders or requests to participate must be submitted to the abovementioned 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://www.ethics.dk/ethics/eo#/3c179cd6-83fc-4af2-859a-67b61cfe1e6d/homepage>

I.6. Main activity

Water

Section II: Object

II.1. Scope of the procurement

II.1.1. Title

Tender for turnkey contract regarding design and construction of a new ozone treatment process at Egaa Wastewater Treatment Plant

II.1.2. Main CPV code

45252100 Sewage-treatment plant construction work

II.1.3. Type of contract

Works

II.1.4. Short description

There has been a significant change in the composition of the wastewater to the Egaa WWTP due to the expansion of Aarhus University Hospital in Skejby. Pharmaceutical residues have been registered that are above the PNEC values in the discharge from the Egaa WWTP following the expansion of the hospital. This has led Aarhus Municipality to conclude that additional treatment for pharmaceutical residues must be carried out at the WWTP. A 4th treatment step therefore has to be established at Egaa WWTP to achieve sufficient removal of pharmaceutical residues in the effluent. A screening of available treatment technologies and theoretical modelling has been carried out based on the 10 focus substances that can be measured in the effluent from Egaa WWTP. From this, it is concluded that implementing an ozone treatment in front of the existing sand filter will be enough to remove the remaining pharmaceutical residues.

II.1.5. Estimated total value

II.1.6. Information about lots

This contract is divided into lots: no

II.2. Description

II.2.2. Additional CPV code(s)

45252000 Construction works for sewage treatment plants, purification plants and refuse incineration plants, 45252200 Purification plant equipment, 45252210 Water purification plant construction work

II.2.3. Place of performance

NUTS code: DK042 Østjylland

Main site or place of performance: DK-8250 Egaa

II.2.4. Description of the procurement

Aarhus University hospital is located in the catchment area to Egaa WWTP. A study has been conducted mapping the amount of pharmaceuticals in the sewage from the hospital, in the inlet to Egaa WWTP, and in the outlet from Egaa WWTP. Based on the study it was found that 87 % of the pharmaceuticals are coming from household sewage. It was also found that 10 out of 62 pharmaceuticals are above the PNEC value in the outlet from Egaa WWTP. Therefore, it was concluded that the highest environmental value was obtained by centralizing the removal of pharmaceuticals at Egaa WWTP. Based on a literature study and modelling it was concluded that an ozone-based solution is the most suitable technology to remove the 10 pharmaceuticals from Egaa WWTP. Prior to the tender, market dialogue meetings have been held with interested market parties. A summary of the written feedback from the market dialogue are enclosed as annexes to the tender.

Aarhus Vands vision is to build an ozone plant for removing pharmaceuticals from the treated wastewater after the clarifiers and before the sand filtration. The ozone plant shall hydraulically be integrated into the operation of the existing treatment plant and must not interfere negatively with the existing treatment of the wastewater, neither must the ozonation increase the energy consumption or the N₂O emissions in the existing process steps. The ozonation plant shall be energy-optimized and be able to remove the 4 pharmaceuticals down to the

outlet requirements, without exceeding the requirements for bromate. When designing the plant, great focus should be put on working environment, as regards service, maintenance, and safety. The solution must be easy to control automatically based on online sensors, and the equipment must be chosen thus both high and low hydraulic load can be handled in a safe and effective way. To prepare for the future, the solution should be modular, flexible, and easy to extend. Architectural the ozonation facility must be adapted so it matches the existing facility and fulfil the requirements for local planning.

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

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 number of candidates: 4
Objective criteria for choosing the limited number of candidates:

Aarhus Vand wants an strong competition, where there is room for tenderers who have experience with, and can offer, more traditional solutions to the task, and where there is room for tenderers who have experience with, and can offer, solutions other than the more traditional . In this way, Aarhus Vand believes it can ensure the best competition, with the best result for Aarhus Vand.

Aarhus Vand will prequalify up to 4 applicants, which is invited to submit an tender. 2 places are reserved for applicants who have references for traditional solutions, and 2 places for applicants who have references for other solutions.

Traditional solutions is defined as, solutions with deep contact tanks and diffusers

Other solutions is defined as relevant solutions that are not defined as traditional solutions.

If there are not enough applicants for one reference category, more applicants are added so that a total of up to 4 suitable companies are prequalified.

During the pre-qualification, a selection will be made on the basis of an assessment of the individual applicant's general suitability to carry out the offered task. The purpose of this is to ensure that the competition for the tendered task will take place between tenderers who are suitable to handle the task – both tenderers that offers more traditional solutions to the task, and tenderers that offer solutions other than the more traditional.

When selecting, Aarhus Vand will choose the Tenderers who are assessed (weighted equally):

- to have the best and most relevant experience with similar or similar tasks based on the Tenderer's references.
- to have carried out the task in the best way, including at the agreed time, economy and quality. Aarhus Vand reserves the right to obtain information from customers in the references regarding the performance and documentation of the task and use it as the basis for an assessment of received applications for pre-qualification.
- with an economy that shows a healthy operation of the company via the disclosed key figures.

II.2.10. Information about variants

Variants will be accepted: no

II.2.11. Information about options

Options: yes

Description of options:

5-year Service and maintenance contract, with option for extended the contract another 5 years (year 6 - 10).

II.2.13. Information about European Union funds

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

II.2.14. Additional information

Basis of agreement for the new ozone treatment process at Egea WWTP is as a turnkey contract in accordance with the 'General conditions for general contracting in construction and civil engineering (ABT 18)'. Agreements about execution of turnkey contracts within construction work for Aarhus Vand can be entered into on the grounds of ABT 18 with Aarhus Vands precisions and deviations.

Section III: Legal, economic, financial and technical information

III.1. Conditions for participation

III.1.2. Economic and financial standing

List and brief description of selection criteria:

The applicant must state the information in the ESPD in ETHICS, pt. IV, section B: Economic and financial ability.

Aarhus Vand has the following requirements for economic and financial ability, which the Applicant must comply with in order for Aarhus Vand to pre-qualify the Applicant to submit a tender:

- Has an annual turnover of least 7,0 million Euro excl. VAT in the 3 latest financial year
- Has a positive result before tax in the latest financial year
- Has a solvency ratio of at least 20 % in the latest financial year
- Has an equity capital of at least 3,0 million Euros excl. VAT in the latest financial year

If there have been significant changes in the applicant's financial situation since the last financial statement, the applicant must disclose this (ESPD, pt. IV.B).

If the applicant cannot provide all information regarding economic and financial capacity, because the applicant has been established within the last three years, the applicant must state this (cf. the ESPD, pt. IV.B). If an applicant has existed for less than three years, it is a requirement that the applicant can document having met the requirements above during the time the applicant has existed.

For consortia it applies that the consortium participants together must meet the minimum requirements. For applicants who rely on the financial capacity of other economic parties, the applicant and the supporting entity or supporting entities must together meet the minimum requirements.

III.1.3. Technical and professional ability

List and brief description of selection criteria:

The applicant must state the information in the ESPD in ETHICS, pt. IV, section C: Technical and professional ability.

The applicant may provide a maximum of 5 references regarding design and installation of the following (listed in priority order):

- Ozone treatment step at an WWTP to achieve sufficient removal of pharmaceutical residues in the effluent.

- Ozone treatment step at an hospital to achieve sufficient removal of pharmaceutical residues in the effluent.
- Ozone treatment step at an pharmaceutical production to achieve sufficient removal of pharmaceutical residues in the effluent.
- Ozone treatment step at other industries.

If more than 5 references are specified, Aarhus Vand will only look at the 5 references specified first, and disregard the additional specified. The applicant has the possibility to provide references on both traditional deep contact tanks with diffusers and by other transfer of ozone (injectors etc.). Both solutions and technologies are considered equal when evaluating the references.

The applicant must either provide information about references in the ESPD section "Selection" or as an Appendix to the application. The applicant must state in the description of the references:

- Economic of the installation
- Time of execution of the reference
- The references client and contact person incl. contact information on this
- Brief description of the scope of the assignment
- Which role the applicant had on the project – Turnkey contractor, Civil Engineering or Equipment sub-supplier
- Information regarding, whether the key employees who carried out the reference is still employed by the company
- If the assignment has not been completed, please state which part of the assignment has been completed.

Regarding ownership of a reference: It is the company (VAT number) that has carried out the task that owns the reference. This applies even if none of the employees, or the department that worked on the reference, is no longer with the company.

The applicant must either provide information about references in the ESPD section "Selection" or as an Appendix to the application.

For consortia it applies that the consortium participants together must meet the minimum requirements. For applicants who rely on the technical capacity of other parties, the applicant and the supporting entity or supporting entities must together meet the minimum requirements.

Minimum level(s) of standards possibly required:

The applicant must meet the following minimum requirements for technical and professional ability:

- Applicant must have at least 1 of similar references that have been carried out within the latest within the latest 3 years prior to the applicant deadline. Completed means references that have been completed or are in progress.

Similar reference means:

- References that include design and installation of ozone treatment process with either traditional deep contact tanks with diffusers or by other transfer of ozone (injectors etc.)

Section IV: Procedure

IV.1. Description

IV.1.1. Type of procedure

Negotiated procedure with prior call for competition

IV.1.3. Information about a framework agreement or a dynamic purchasing system

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: 25/09/2023 Local time: 12:00

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

Date: 06/10/2023

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

English, Danish

IV.2.6. Minimum time frame during which the tenderer must maintain the tender

Tender must be valid until: 14/02/2024

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

Electronic payment will be used

VI.3. Additional information

VI.4. Procedures for review

VI.4.1. Review body

Official name: Klagenævnet for Udbud

Postal address: Toldboden 2

Town: Viborg

Postal code: 8800

Country: Denmark

E-mail: klfu@naevneshus.dk

Telephone: +45 72405600

Internet address: <https://naevneshus.dk/start-din-klage/klagenaevnet-for-udbud/>

VI.4.4. Service from which information about the review procedure may be obtained

Official name: Konkurrence- og Forbrugerstyrelsen

Postal address: Carl Jacobsens Vej 35

Town: Valby

Postal code: 2500

Country: Denmark

E-mail: kfst@kfst.dk

Telephone: +45 41715000

Internet address: www.kfst.dk

VI.5. Date of dispatch of this notice

14/08/2023