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Tender

Rental of Lime Treatment Equipment for Sewage Cake at Allanfearn WWTW

Scottish Water

F05: Contract notice – utilities

Notice identifier: 2025/S 000-066071

Procurement identifier (OCID): ocds-h6vhtk-05ce5e

Published 16 October 2025, 5:06pm

Section I: Contracting entity

I.1) Name and addresses

Scottish Water

The Bridge, 6 Buchanan Gate, Stepps

Glasgow

G33 6FB

Contact

Thomas Watson

Email

thomas.watson@scottishwater.co.uk

Country

United Kingdom

Region code

UKM - Scotland

Internet address(es)

Main address

<https://www.scottishwater.co.uk/>

Buyer's address

<https://www.scottishwater.co.uk/>

I.3) Communication

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

https://atamis-scottishwater.my.salesforce-sites.com/ProSpend__CS_PublicLandingPage?SearchType=Projects

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

https://atamis-scottishwater.my.salesforce-sites.com/ProSpend__CS_PublicLandingPage?SearchType=Projects

I.6) Main activity

Water

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Rental of Lime Treatment Equipment for Sewage Cake at Allanfearn WWTW

Reference number

SW25/WM/1523

II.1.2) Main CPV code

- 42996900 - Sludge-processing equipment

II.1.3) Type of contract

Supplies

II.1.4) Short description

Procurement exercise for the Rental of Lime Treatment Equipment at Scottish Water's Waste Water Treatment Works at Allanfearn to stabilise dewatered sewage cake. The equipment must ensure effective mixing of lime with sewage cake, precise dose control, and safe handling of materials. The supplier shall provide all necessary equipment, training, and maintenance support for the duration of the rental period.

II.1.5) Estimated total value

Value excluding VAT: £2,800,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.3) Place of performance

NUTS codes

- UKM - Scotland

Main site or place of performance

Allanfearn Waste Water Treatment Works

II.2.4) Description of the procurement

This description outlines the requirements for the rental of lime treatment equipment at Scottish Water's Allanfearn Waste Water Treatment Site to stabilise dewatered sewage cake. The equipment must ensure effective mixing of lime with sewage cake, precise dose control, and safe handling of materials. The supplier shall provide all necessary equipment, training, and maintenance support for the duration of the rental period.

Scope of Supply

The supplier shall provide a complete lime treatment system for hire, including but not

limited to:

Lime Storage Silo

- A sealed, weatherproof silo with sufficient capacity for lime storage. There should be enough capacity to allow for a full load of quick lime to be added prior to running empty to allow for a continuous operation of the plant.
- Dust suppression and venting to prevent environmental contamination.
- Level indicators to monitor lime quantity.
- A method of delivering the lime to the mixing unit in a controlled dose rate.
- The silo should not interfere or require any adjustment to the infrastructure or buildings.

Cake Import

- A method of receiving cake import to the lime treatment plant
- This should allow cake to be loaded into the lime treatment plant by a telehandler or other similar type plant.

Twin Screw Auger Mixing System (or similar)

- A twin-screw auger mixer designed to homogenously blend lime with dewatered sewage cake.
- Corrosion-resistant construction suitable for high-pH lime and sewage cake.

Material Conveyance System

- A mechanical conveying system to transfer sewage cake into the mixer. This should ideally be able to be fed automatically from the outlet of the centrifuge.
- A mechanical conveying system to transfer lime into the mixer.
- A mechanical conveying system to transfer treated cake to a clean area that will avoid cross contamination.
- Compatibility with the dewatered cake's consistency (typically 20 -30% dry solids).
- Minimal spillage and dust generation.

Lime Dosing Control System

- Automated dosing control to regulate lime addition based on sewage cake feed rate.
- Measurement and adjustment of lime dose rate in kg lime per kg dried solids (DS)
- Real-time monitoring with data logging of lime dosing control system.

Safety & Environmental Controls

- Dust extraction/containment systems.
- Emergency stops and safety interlocks.
- Compliance with health, safety, and environmental regulations.

Training Requirements

The supplier shall provide training to a competent level.

- Operator Training: Hands-on instruction on system operation, dosing adjustments, and troubleshooting.

- Safety Training: Proper handling of lime, PPE requirements, and emergency procedures.
- Documentation: User manuals, maintenance guides, and safety protocols.

Maintenance & Support

- A preventative maintenance plan detailing frequencies and tasks required to be completed by operators.
- Preventive Maintenance: Scheduled inspections and servicing to ensure continuous operation. This should consider the requirements of the WWTW's and adapt to ensure minimum impact.
- Breakdown Support: Technical support with a guaranteed response time for critical failures. This should include out of hours and weekends.
- Spare Parts: Availability of critical spare parts to minimize downtime.

Performance Requirements

- The system must achieve a homogeneous lime-sewage cake mixture with a consistent dose rate ($\pm 5\%$ accuracy). This should be calibrated annually as a minimum, with certificates supplied.
- Capable of processing approximately up to 4 tonnes per hour of dewatered sewage cake.
- Minimal unplanned downtime (