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Planning

PIN - PRO004803-Goods-Framework-Supply of Variable Speed Drives

United Utilities Water Limited

F04: Periodic indicative notice – utilities

Periodic indicative notice only

Notice identifier: 2024/S 000-016784

Procurement identifier (OCID): ocds-h6vhtk-046c27

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Section I: Contracting entity

I.1) Name and addresses

United Utilities Water Limited

Lingley Mere Business Park

Warrington

WA5 3LP

Contact

Grace Power

Email

grace.power@uuplc.co.uk

Telephone

+44 1925678021

Country

United Kingdom

Region code

UKD - North West (England)

National registration number

02366678

Internet address(es)

Main address

<https://www.unitedutilities.com>

Buyer's address

<https://uk.eu-supply.com/ctm/Company/CompanyInformation/Index/43984>

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.6) Main activity

Water

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

PIN - PRO004803-Goods-Framework-Supply of Variable Speed Drives

II.1.2) Main CPV code

- 42140000 - Gears, gearing and driving elements

II.1.3) Type of contract

Supplies

II.1.4) Short description

The supply of new and replacement Variable Speed Drives (VSD's), including the supply of spares and parts as required from a maintenance perspective. New & replacement VSD's supplied shall support the capital investment programme including provision to the UU Motor Control Centre (MCC) and Small Panel Framework Supplier's under the VSD's Framework terms & conditions, and to UU Wholesale Water & Wastewater Services. The types of equipment required include the supply of:

- Basic 6 pulse chassis type VSD (for incorporation into factory built assemblies by others) plus their accessories
- Harmonic-limiting equipment (either inherent within a VSD or supplied as an active or passive filter) to correct an individual or grouped installation of VSD's. The services required covers:
- Harmonic site survey measurement for both pre and post installation
- Design of a harmonic-limiting solution covering a project specific application for an individual or group of VSD's.

II.1.5) Estimated total value

Value excluding VAT: £3,000,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 31100000 - Electric motors, generators and transformers

- 31121110 - Power converters
- 31121111 - Electric rotary converters
- 31155000 - Inverters
- 31214000 - Switchgear

II.2.3) Place of performance

NUTS codes

- UKD - North West (England)

II.2.4) Description of the procurement

In addition to the overview of the scope above, the following more detailed aspects form the additional scope of requirement.

The specification describes the technical requirements for chassis type Variable Speed Drives (VSD's) over the range of 1 to 2000kW.

Drives shall meet the requirements of LV directive 73/23/EC with supplements and EMC directive 89/336/EEC with supplements.

Each VSD shall be supplied in chassis form with ingress protection to IP20 or for VSD's free standing panels in line with UU's standard specifics. Units shall include a heat-sink with cooling fan (if required)

VSDs in the range up to 900kW shall be capable of operation from an input supply voltage of 400V 3phase 50Hz ac (refer to Schedule of Prices) and shall provide a 3 phase output over a range 0 – 100Hz.

Above this rating higher input voltages (690 or greater) may be used. VSD's below 1kW may be offered having 230V single phase input.

Drives shall be suitable for use within an environment temperature range of 0-40C and RH not exceeding 90%.

The drive shall be capable of operating with centrifugal pump loads up to the specified kVA rating at 50Hz and optionally for constant torque loads (refer to Schedule of Prices). Each VSD shall be capable of continuous non-stop operation at full output kVA and 50Hz.

Super-synchronous operation may be required where the driven equipment is compatible with this type of operation is suitable for the specified application, including the motor.

Each drive shall be fitted with a warning label fixed to the front of the drives removable cover detailing capacitor discharge times.

Each VSD shall include for the following protection functions:

- Short Circuit
- Under or Over Voltage
- Motor Overload with speed dependent adjustment
- Stall Prevention
- Inverter over-temperature
- Motor over-temperature (I² t, PTC)
- Parameter set-up protection

Each of these if operated shall provide an alarm indication and outgoing signal to a relay and/or serial communications card.

All VSDs shall be supplied with a basic operator panel complete with mounting kit and extension cable (if applicable), which shall be fixed into the door of the drive compartment (fitted by others for drives installed within motor control centres).

This panel shall permit display of the following status values:

- Drive Available
- Running or Stopped
- Output frequency (Hz) or speed (rpm or %)
- Motor current
- Drive Failed (plus code or text to define nature of failure)
- Power monitoring including kW's, kWhr, voltage (single and 3 phase), current.

The panel shall permit the following operating functions:

- Selection of Auto (for operation by the PLC) or Manual (local) control from the VSD. With the drive running in Auto it shall be possible for the operator to select Manual,

whereupon the drive shall commence a sequence shutdown unless a start command is given.

- Starting and stopping of the drive under manual control
- Adjustment of the output frequency under manual control
- Reset of faults

The panel shall permit the following commissioning functions to be carried out:

- Manual entry of drive setup parameters
- Storage and retrieval of same
- Access for modifications to configuration parameters for the drive shall not be possible without the use of a password.
- Back-up/memory storage capability

II.3) Estimated date of publication of contract notice

1 August 2024

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