 

UK Biobank Limited

UK Biocentre Limited

Supply of Liquid Nitrogen

Invitation to Tender

Technical Specification

**1.1 Overview**

UK Biobank is looking for suitably qualified and experienced providers, with the necessary capacity and capability to supply Liquid Nitrogen (LN). UK Biobank are also tendering on behalf of UK Biocentre.

UK Biobank invite submissions that can meet or better the following specifications for the supply of Liquid Nitrogen.

UK Biobank requires the supply of LN from June 2016, and UK Biocentre from July 2017.

**1.2 Location**

The Liquid Nitrogen will be used at UK Biobanks site in Cheadle, Stockport, and at UK Biocentres sites located in Milton Keynes and Oxford. Site addresses are:

|  |  |  |
| --- | --- | --- |
| UK Biobank Ltd | UK Biocentre Ltd | |
| Units 1 & 2  Spectrum Way  Adswood  Stockport SK3 0SA | Units 2-3  Java Park  Bradbourne Drive  Milton Keynes MK7 8AT | The Co-Op Warehouse  Ferry Hinksey Road  Osney Mead  Oxford OX2 0AP |

**1.3 Volumes**

UK Biobank have 2 50,000 litre vessels that are owned by UK Biobank.

UK Biocentre have 2 2,000 litre vessels in Milton Keynes and 2 20,000 litre vessels in Oxford that are leased to UK Biocentre.

UK Biobank and UK Biocentre are responsible for the tanks and the pipework. All telemetry equipment required must be supplied by the supplier as part of this contract.

The anticipated volumes of LN required will be:

|  |  |  |  |
| --- | --- | --- | --- |
|  | UK Biobank  Stockport | UK Biocentre Milton Keynes | UK Biocentre Oxford |
| Monthly volume (metric tonnes) | 290 | 3-4.5 | 28-42 |
| Maximum annual Volume (metric tonnes) | 5,000 | 75 | 750 |
|  |  |  |  |
| Usage rate (metric tonnes per hour) | 0.5 | 0.006 | 0.05 |

(For the avoidance of doubt, a metric tonne is 1000 kg)

It is not anticipated that these volumes will go down, however volumes in Lot 2 are expected to increase over time.

**1.4 Service required**

UK Biobank require suppliers who can supply LN, to a high standard of reliability in both delivery and product quality, at a competitive price. LN and telemetry equipment must be compatible with existing storage, equipment and machinery at UK Biobank and UK Biocentre sites.

There are three aspects that need to be fulfilled:

|  |  |
| --- | --- |
| Telemetry | * A suitable telemetry system, compatible with existing equipment, to be supplied and fitted * Telemetry to be managed to allow the supplier to respond promptly to telemetry reports of low volume, initiating replenishment action in good time |
| Delivery | * Delivery of LN to all sites when required to ensure a consistent supply of LN meaning no site ever has a shortage, at periods stipulated by UK Biobank * Deliveries would generally be between 9am – 5pm Monday to Friday but this is flexible, and in some cases may need to be outside those hours, for which site access will be given. |

|  |  |
| --- | --- |
| Servicing  **(Lot 1 only)** | * For UK Biobank only, tanks to be serviced regularly every 6 months to an arranged schedule * Also be required on an ad hoc basis to diagnose and repair issues |

**1.5 Costing basis**

Costings for LN will be required on the following basis:

Price per tonne

Energy Surcharge

Delivery Charge, if any

Service Charge (for UK Biobank only)

Any other Charges, if any

If any delivery is less than 1 tonne, the charge for that delivery will be made on a pro-rata basis of the 1 tonne charge.

Full costing details for the entire specification must be given as part of the response to this tender, in the table given in Volume 2 of the tender pack.

**1.6 Innovation**

UK Biobank expects that respondents to the ITT will address each of the specifications listed above. In addition, we welcome suggestions for additional device features or for innovative, cost-effective proposals to improve the overall process of LN supply.

**1.7** **Supporting documentation**

Suppliers will need to include the full specification for the LN they are bidding to supply, so that UK Biobank can ensure the quality and purity of the LN to be supplied.

Full specifications will also be required for the telemetry equipment to be supplied.

Bidders should NOT send catalogues as their response to this tender. Specific items the bidder is bidding to supply need to be indicated clearly within the response document. Catalogues may be appended to the response where relevant, for information only.