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Award

High Throughput Sequencer

London School of Hygiene & Tropical Medicine

F15: Voluntary ex ante transparency notice

Notice identifier: 2023/S 000-005792

Procurement identifier (OCID): ocds-h6vhtk-03acb2

Published 28 February 2023, 11:24am

Section I: Contracting authority/entity

I.1) Name and addresses

London School of Hygiene & Tropical Medicine

Keppel Street,

London

WC1E 7HT

Contact

Paul Pester

Email

paul.pesther@lshtm.ac.uk

Telephone

+44 02079272471

Country

United Kingdom

Region code

UKI31 - Camden and City of London

National registration number

RC000330

Internet address(es)

Main address

<http://www.lshtm.ac.uk>

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Health

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

High Throughput Sequencer

Reference number

LSHTM-2023-18

II.1.2) Main CPV code

- 38000000 - Laboratory, optical and precision equipments (excl. glasses)

II.1.3) Type of contract

Supplies

II.1.4) Short description

The MRC Unit the Gambia at LSHTM intends to purchase an Illumina Novaseq 6000 sequencing system including delivery (to the Gambia), installation, validation and training. The high throughput sequencer is capable of sequencing very large genomes. Also included is Illumina Dragen Server and Licence.

II.1.6) Information about lots

This contract is divided into lots: No

II.1.7) Total value of the procurement (excluding VAT)

Value excluding VAT: 917,617.12 USD

II.2) Description

II.2.2) Additional CPV code(s)

- 33100000 - Medical equipments

II.2.3) Place of performance

NUTS codes

- GM - The Gambia

Main site or place of performance

Atlantic Boulevard, Fajara, Banjul, The Gambia

II.2.4) Description of the procurement

High Throughput DNA Sequencer - Illumina Novaseq 6000 system and Dragen Server Software.

System specifications

Output range: 80-6000Gb

Paired end reads per run: 1.6B - 40B

Maximum read length: 2 x 250bp

Run time: 13 – 44 hours

Flow cell type: SP, S1, S2, S4

Reads passing filter per flow cell: Single-end reads upto 8-10B and paired-end reads 16-20B

Quality scores: between 75 to greater than 90% bases higher than Q30

Instrument Specifications

Instrument configuration

Computer and touch screen display

Installation setup and accessories

Data collection and analysis software

Instrument control computer

Base unit: Portwell WADE-8022 with Intel i7 4700EQ CPU

Memory: 2 x 8 GB DDR3L SODIMM

Hard Drive: None

Solid-State Drive: 256GB mSATA

Operating system: Windows 10 or higher

Laser

Wavelengths: 532nm, 660nm, 780nm, 790nm

Power requirements

200-240 VAC 50/60Hz, 16A, single phase, 2500 W

Network connection

Dedicated 1 Gb connection between the instrument and data management system.

Bandwidth for network connection

200 Mb/s/instrument for internal network uploads

200 Mb/s/instrument for cloud base uploads

5Mb/s/instrument for instrument operational Data uploads

II.2.11) Information about options

Options: No

II.2.13) Information about European Union Funds

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

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Award of a contract without prior publication of a call for competition in the cases listed below

- The procurement falls outside the scope of application of the regulations

Explanation:

LSHTM believes that the technical requirements of the high throughput next generation sequencing platform can only be met by one known supplier. There are no other competing systems on the market with anything approaching this capacity.

The instrument performs whole genome sequencing efficiently and cost effectively. In addition to whole genome sequencing, it can be used for a variety of other applications including but not limited to methylation sequencing, population studies, De novo sequencing, gene expression profiling, metagenomics etc.

The instrument has a scalable throughput for dynamic study sizes with an output range of 6TB to 20B reads in less than 2 days. It is able to sequence deeply for clear answers to research questions.

The flexibility of the instrument allows users to mix and match flow cell types as well as choose between multiple read lengths, workflows and many more. The different DRAGEN pipelines are able to analyse generated data within a very short period of time thereby helping with the data analysis bottleneck and lack of bioinformaticians.

The NovaSeq 6000 System combines unmatched system output with rapid run times to deliver the highest daily throughput of any NGS system currently available.

ISN Products (Nig.) Ltd are the approved distributor for Illumina products in the region (Gambia).

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: Yes

Section V. Award of contract/concession

A contract/lot is awarded: Yes

V.2) Award of contract/concession

V.2.1) Date of conclusion of the contract

28 February 2023

V.2.2) Information about tenders

The contract has been awarded to a group of economic operators: No

V.2.3) Name and address of the contractor/concessionaire

ISN Products (Nig.) Ltd

40-42 Association Avenue

Ilupeju, Lagos

Email

contact@isnmedical.com

Country

Nigeria

NUTS code

- NG - Nigeria

Internet address

www.isnmedical.com

The contractor/concessionaire is an SME

Yes

V.2.4) Information on value of contract/lot/concession (excluding VAT)

Total value of the contract/lot/concession: 917,617.12 USD

Section VI. Complementary information

VI.4) Procedures for review

VI.4.1) Review body

The Royal Courts of Justice

The Strand

London

WC2A 2LL

Country

United Kingdom

VI.4.3) Review procedure

Precise information on deadline(s) for review procedures

Any review must be notified to the contracting authority in accordance with VEAT timescales

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

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Keppel Street

London

WC1E 7HT

Email

procurement@lshtm.ac.uk

Country

United Kingdom