



Request for Quotation (RFQ) for the supply of an instrument for sanger sequencing and fragment analysis by capillary electrophoresis for the

CSIR RFQ No. 9327/29/11/2021

Date of issue	2021/11/15
Briefing Session / Site Inspection date, venue and time	No briefing session
Closing Date and Time	2021/11/29 @ 16:30
Contact details	For submission of quotations or any other enquiries: tender@csir.co.za

1 INVITATION FOR QUOTATION

Quotations are hereby invited for supplying an instrument for sanger sequencing and fragment analysis by capillary electrophoresis for NextGen health.

2 BACKGROUND

The Array Printing and Companion Diagnostic needs a sanger sequencing instrument that will be used in several projects. This instrument can also be made available to other departments within the CSIR.

The instrument will be used to meet the demands of the CSIR genetic testing needs. These includes TB, HIV and SARS-Cov-2 typing as well as for all cloning confirmations.

3 QUOTATION REQUIREMENTS

Equipment specifications required:

Sanger sequencer specifications

Number of capillaries 4

Number of dyes 6

Sample format 96-well standard plate and standard 8-tube strips

Applications Sanger sequencing (next-generation sequencing (NGS) confirmation, indel analysis, heterozygote detection, minor variant detection, microbial identification, genome editing verification)

Fragment analysis (microsatellite analysis, compatible with MLPA™ PCR, cell line authentication)

Dimensions (W x D x H) 49.5 x 64.8 x 44.2 cm

Weight 53.6 kg

Power input 100–240 V

Internal hard drive storage 128 GB, approximately 3,500 injections or 14,000 reactions

On-instrument tracking Radio-frequency identification (RFID)

Secondary analysis

- Sequence Analysis Software
 - Variant Reporter Software
 - Analysis Modules (Quality Check, Variant Analysis, Peak Scanner, Microsatellite Analysis, and Next-Generation Confirmation)
- on Connect platform

Warranty 1 year

Assurance Premium repair plan, designed to maximize instrument performance and help ensure availability of critical systems

Training on-site field application scientist training and setup with platform and online Instrument Management

Communication interface Connect platform with cloud-enabled systems, Wi-Fi, and RJ-45 Ethernet ports

Configuration Stand-alone; optional desktop or laptop computer

Run module specifications

Run module	Bases (QV30 CRL†)	Samples	Approximate run time
ShortSeq	350 bp	192	30 min
MediumSeq	500 bp	128	45 min
LongSeq	800 bp (QV20)	48	≤2 hr
ShortSeq BDx	350 bp	172	33 min
MediumSeq BDx	500 bp	120	45 min

LongSeq BDX	800 bp (QV20	48	≤2 hr		
Run module	Size range	Samples	Approximate run time	Sizing precision: 60–460 bp	Sizing precision: 461–600 bp, 600–800 bp
SNaPshot	40–120 bp	230	25 min	<0.50	NA
FragAnalysis	60–460 bp	128	45 min	<0.15	NA
LongFragAnalysis	60–800 bp	48	≤2 hr	<0.15	<0.30, <0.45

- Traceability and data security with an optional security, audit, and electronic signature software module
- Web-enabled remote monitoring and control capability
- Tracking of consumables usage

Capillary array length 28 cm

Maximum number of injections/reactions Up to 250 injections/1,000 reactions or samples

Polymer type for performing sequencing and fragment analysis

Shelf life of reagents 4 months or 6 months after opening

Storage 2–8°C

On-instrument tracking RFID

Desktop computer: minimum specifications

Memory 16 GB (2 x 8 GB), 1,600 MHz DDR3,

Processor 4th generation Intel Core™ i7-4770S processor (Quad Core HT, 3.10 GHz turbo, 8 MB, with HD graphics 4600)

Hard drive 2 x 500 GB SATA 3.0 GB/sec and 8 MB data burst cache

Operating system Microsoft™ Windows™ 10 system

Laptop computer: minimum specifications

Memory 16 GB (2 x 8 GB), 2,400 MHz DDR4

Processor 6th generation Intel Core i5-6440HQ processor (Quad Core, 2.6 GHz; 6 MB cache)

Hard drive M2.2 256 GB SATA Class 20 solid-state drive

Operating system Microsoft Windows 10 system

4 EVALUATION CRITERIA

- 4.1 Selection of suppliers will be based on the 80/20 preference point system.
Selection of suppliers will be based on the 90/10 preference point system.
- 4.2 Provide a valid certified copy of B-BBEE Certificate, or valid sworn affidavit indicating the B-BBEE Status level. **B-BBEE certificate must be issued by SANAS accredited agency or a valid sworn affidavit in line with DTI regulations.** (RSA suppliers only)
- 4.3 Indicate CSD number (National Treasury Central Supplier Database) on quotation. If not registered yet on CSD, use www.csd.gov.za to register.
- 4.4 No order will be issued or no contract will be signed without a valid CSD number.

5 PRICING QUOTATION

- 5.1 Price needs to be provided in South African Rand (excl. VAT), with details on price elements that are subject to escalation and exchange rate fluctuations clearly indicated.
- 5.2 Price should include additional cost elements such as freight, insurance until acceptance, duty where applicable, etc.
- 5.3 Payment will be according to the CSIR Payment Terms and Conditions.

6 PROCEDURE FOR SUBMISSION OF QUOTATIONS

- All quotations must be submitted electronically to: tender@csir.co.za
- Respondents must use the RFQ number as the subject reference number when submitting their bids
- The email and file sizes should not exceed a total of 25mb per email
- The naming / labelling syntax of files or documents must be short and simple (e.g. BBBEE Certificate)
- Each bidder will be limited to send two emails with their submissions, and the subject of the email must clearly reference the bidder name and RFQ number – (E.g. Dell- RFQ No. 0000/12/06/2020 email 1 of 2)

- All documents submitted electronically via email must be clearly visible.
- Tenders or documents received after the closing date and time will be considered as a late submission. Late submissions will not be evaluated.

NB: NO HARD COPIES OR PHYSICAL SUBMISSIONS WILL BE ACCEPTED

7 OTHER TERMS AND CONDITIONS

- 7.1 The supplier shall under no circumstances offer, promise or make any gift, payment, loan, reward, inducement, benefit or other advantage, which may be construed as being made to solicit any favour, to any CSIR employee or its representatives. Such an act shall constitute a material breach of the Agreement and the CSIR shall be entitled to terminate the Agreement forthwith, without prejudice to any of its rights.
- 7.2 A validity period of 90 days will apply to all quotations except where indicated differently on the quote.

- 8 No goods and/or services should be delivered to the CSIR without an official CSIR Purchase order. CSIR purchase order number must be quoted on the invoice. Invoices without CSIR purchase order numbers as reference will be returned to supplier.**

- 9 Note: This is not a Purchase Order.**

10 DECLARATION BY TENDERER

Only tenderers who completed the declaration below will be considered for evaluation.

RFQ No: -----

I hereby undertake to render goods/services described in the attached tendering documents to CSIR in accordance with the requirements and task directives/quotation specifications stipulated in RFQ No. ----- at the price/s quoted. My offer/s remains binding upon me and open for acceptance by the CSIR during the validity period indicated and calculated from the closing date of the quotation.

I confirm that I am satisfied with regards to the correctness and validity of my quotation; that the price(s) and rate(s) quoted cover all the services specified in the quotation documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.

I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this RFQ as the principal liable for the due fulfilment of this RFQ process.

I declare that I have no participation in any collusive practices with any tenderer or any other person regarding this or any other RFQ proposal.

I accept that the CSIR may take appropriate actions, deemed necessary, should there be a conflict of interest or if this declaration proves to be false.

I confirm that I am duly authorised to sign this proposal.

NAME (PRINT)

CAPACITY

SIGNATURE

NAME OF FIRM

DATE

WITNESSES	
1
2
DATE:	