



क्रय अनुभाग
वन अनुसंधान संस्थान
देहरादून २४८००६-
GSTIN 05AAAAI1708G2Z6
PAN NO. AAAAI1708G

Purchase Section
Forest Research Institute,
Dehradun-248006, UTTARAKHAND
Phone: 0135-2224205
http://fri.icfre.gov.in/tender/
Email: po_fri@icfre.org



Objection Invitation for Single Tender Enquiry
(Against Proprietary Article Certificate)

Ref. No XI-17/POFRI/GTI/RKM/CAMPA/2020-21
Tender ID: 2020_ICFRE_567894_1

Date: 29/10/2020

Sub :- Purchase of DNA Extended range LabChip (750 sample) Part No: CLS 138948 - reg.

The request has been received from the HOD, Genetics & Tree Improvement Division, FRI for purchase of 12 Nos. of "DNA Extended range LabChip (750 sample) Part No: CLS 138948" @ Rs. 40,530/- inclusive GST. from M/s H.V. Technologies, B-7, Phase-II, Behind FCI Godown, Transport Nagar, Dehradun-248002. Authorized by M/S Perkinelmer (India) Pvt. Ltd., New Delhi, on proprietary basis. The proposal & PAC certifications submitted by above mentioned firm are attached herewith.

The above document are being uploaded on FRI website and CPPP portal for open information to prospective manufacturers to submit their objections/comments (if any) regarding proprietary nature of equipment/item within 14 days of giving above mentioned reference number. The comments should be received in the office of Purchase Officer, FRI, Dehradun-248006, through E-mail (po_fri@icfre.org) on or before 12.11.2020 at 3:00 P.M. failing which, it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

Purchase Officer
Forest Research Institute

Encl:-

- 1- PAC Certificate, Specification of equipment, and Proforma invoice

Critical Date Sheet

S. No.	Particulars	Date	Time	Location
1.	Published Date	29.10.2020	05:00 PM	FRI website and CPP portal: https://www.eprocure.gov.in/epublish/app
2.	Document Download Start Date	29.10.2020	06:00 PM	At CPPP Portal as above
3.	Objection/Comments Submission start date	29.10.2020	06:30 PM	through email (po_fri@icfre.org)
4.	Objection/Comments Submission End Date	12.11.2020	03:00 PM	through email (po_fri@icfre.org)

Copy to: I.T. & GIS Discipline, FRI, with request to upload it on FRI website



18 Sept 2018

Dear XXXXX,

This letter is to inform you that the full function and capabilities of the LabChip® GX Touch™ and GXII Touch™ electrophoresis systems are available only from PerkinElmer, Inc. There is no equivalent product on the market available from another manufacturer. The LabChip® GX Touch™ and GXII Touch™ instruments and the individual components are covered by numerous patents owned or exclusively licensed by PerkinElmer.

The LabChip® GX Touch™ and GXII Touch™ Systems are multi-purpose chip-based, automated electrophoresis systems for protein, DNA, and RNA fragment analysis with the following product features and specifications:

LabChip® Technology

- Size. The LabChip® GX Touch™ is a compact benchtop instrument that is completely enclosed. The instrument occupies only 18.6" width x 25.6" depth of bench space.
- The LabChip® GX Touch™ comes in two formats, 'HT' providing high throughput and high sample capacity for high sample demand labs, and a '24' model which brings the LabChip® GX Touch™ for labs running smaller batch sizes.
- Addition of Internal Standards for Accurate Quantitation and Sizing. The LabChip® devices automatically add internal markers to each sample on-chip.
- Single Sipper Chips for DNA, RNA, or Protein.
- High Resolution Electrophoresis. Proteins, DNA, and RNA fragments are separated in microchannels filled with a sieving polymer solution and a fluorescent dye. The stained proteins, DNA, or RNA fragments form sharp bands, resulting in exceptional peak resolution.
- On Chip Detection. Each protein, DNA, or RNA fragment is detected as it passes through a tightly focused laser beam. Low concentrations are easily measured. Protein concentrations are quantitatively detected to 10 pg/μL. DNA concentrations are also quantitatively detected as low as 10 pg/μL. RNA linear range is down to 1 pg/ul
- Less Sample Preparation is needed. The LabChip® GXII Touch™ is tolerant of protein samples with detergents (for example, Triton X-100 up to 1%) or salt (up to 1 M NaCl). DNA samples can be run after PCR reactions without further clean-up.

LabChip® GX Touch™ System Hardware

- Touch Screen user interface
- Automated Sampling from Microtiter Plates. The LabChip® GX Touch™ and GXII Touch™ Systems feature walk-away automation for unattended sampling of 96-Well and 384-Well plates. A calibration standard is run every 12 samples to provide exceptional sizing, accuracy and quantitation.
- Integral self-priming function that allows the user to load the chip, select the assay, and walk away
- Integral barcode scanning available for recording plate ID data to match to sample analysis data
- Precise Control of Chip Voltages, Currents and Pressure. By controlling these parameters independently, multiple laboratory operations can be integrated onto a single chip.

LabChip® GX Touch™ Hardware, Continued

- Laser-Induced Fluorescence for High Sensitivity Detection. The optical system features auto-alignment and auto-focus of a solid-state laser for optimal sensitivity and reproducible chip-to-chip operation.

- Samples to be analyzed can mapped from any well locations on the plate, from 1 to 384 samples.
- Chips are easily and quickly loaded. The LabChip® GX Touch™ chips have a 10 minute preparation cycle prior to first use. The LabChip® GX Touch™ and GXII Touch™ perform the priming step right on the instrument. There is no need to transfer the chip from a priming station as a separate step. Competing technologies require a 1.5 hour chip prep time.
- Up to 400 samples can be run on one chip preparation. The analysis time for a 96-well plate for RNA is 150 minutes, DNA is 45 minutes, protein is 75 minutes. After preparation, all chips can be used over an 8 hour period, so smaller sets of samples can be run continuously throughout the work day. Can use 96 or 384 plates for RNA, DNA or Protein samples.
- Dual Protocol DNA assays to efficiently and economically accommodate smaller sample batch sizes yet retain high throughput capabilities.

LabChip® GX Touch™ Software

- Touch™ Operator Software and LabChip® Data Reviewer Software with ability to share data review on an unlimited basis
- Eliminates Photographic Gel Documentation. Digital data provides higher quality results than standard gel electrophoresis. There is a cost savings because an additional imager and software are not required. There is also a time savings as the operator does not need to transfer the gel to another instrument for analysis.
- Automatic Sizing and Quantitation. The size and concentration of each fragment are calculated and reported automatically in tabular format.
- Automatic Data Export. All run data can be automatically exported for further analysis or archival storage.
- Point-and-Click Data Overlay. The data overlay feature allows detailed sample comparisons, making sample to sample comparisons easy.
- Intuitive Data Image. Gel-like data image is similar to slab gel results.
- Facilitates data comparisons across multiple plates. Both 96 and 384-well plates can be pulled into the workspace to allow sample selections to be included in a 'collection' for analysis.
- Data displays in virtual gel, electropherogram, and summary table formats. Data exports in any of the display formats.
- Provides powerful filter functions to enable data queries. Variable selections can be combined to elevate the sensitivity of the filters. Filters can be saved as templates for subsequent use to analyze plates.
- Smear region analysis facilitates multiplexed experimentation of shotgun libraries for NGS
- RNA Quality Score (RQS) for evaluating RNA sample integrity.
- Exclusive Genomic Quality Score (GQS) for evaluating genomic DNA integrity.
- Security Kit supports validation in regulated environments, consistent with 21 CFR Part 11 guidelines. Elements of the Security Kit include: Electronic Signature, Audit Trail, Central Data Repository, Multiple User Accounts with Password, Controlled Access Assignments by Administrator, IQ/OQ Tools.

DNA Assay Specifications

Assay Name	Size (bp)	Concentration Range	Sensitivity	Resolution	Analysis time (Per sample)
1K	25-1000	0.1 ng/ μ L - 50 ng/ μ L per fragment	0.25 ng/ μ L	\pm 5% from 150 - 600 bp \pm 10% from 100 - 150 bp, 600 - 1000 bp \pm 15% from 25 - 100 bp	68 s
5K	100-5000	0.25 ng/ μ L - 50 ng/ μ L per fragment	0.25 ng/ μ L	\pm 10% from 150-500 bp \pm 15% from 100-150 bp, 500-1500 bp \pm 20% from 1500-5000 bp	25 s
High Sens	50-5000	10 pg/ μ L - 500 pg/ μ L per fragment 100 pg/ μ L - 5 ng/ μ L for smears	5 pg/ μ L per fragment 100 pg/ μ L for smears	\pm 5% from 100 - 500 bp \pm 10% from 50 - 100 bp, 500 - 1000 bp \pm 15% from 1000 - 3000 bp \pm 22% from 3000 - 5000 bp	68 s
NGS 3K	50-3000	5 - 500 pg/ μ L for smears 0.5 - 50 pg/ μ L per fragment from 50 to 2000 bp 2 - 50 pg/ μ L per fragment from 2000 to 3000 bp	2.5 pg/ μ L for smears 0.2 pg/ μ L per fragment	\pm 10% from 200 - 1000 bp \pm 15% from 50 - 200 bp, 1000 - 2000 bp \pm 20% from 2000 - 3000 bp	68 s
✓ 12K	100 - 12000	0.25 ng/ μ L - 50 ng/ μ L per fragment	0.25 ng/ μ L	\pm 10% from 150 - 1000 bp \pm 15% from 1000 - 2000 bp \pm 20% from 2000 - 8000 bp \pm 25% from 100 - 150 bp, 8000 - 12000 bp	68 s
gDNA	50 to 40,000+	2-50 ng/ μ L Sample diluted 10X with water 0.2-5 ng/ μ L Sample undiluted	0.1 ng/ μ L	N/A	2.5 min

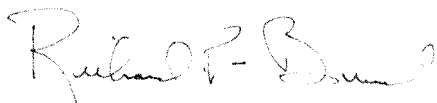
Intellectual Property

We consistently seek patent protection for our key microfluidic technologies. We are also the exclusive licensee of key microfluidic patents from UT-Battelle, LLC, relating to patents covering inventions by Dr. J. Michael Ramsey. In addition, we rely upon trade secrets, know-how, continuing technological innovation and in-licensing opportunities to develop and maintain our competitive intellectual property position. A majority of our microfluidic patents are directed the following technical areas:

- control of movement of fluid and other material through interconnected microchannels;
- continuous flow, high-throughput screening assay methods and systems;
- chip-based assay chemistries and methods;
- chip-compatible sample access;
- software for control of microfluidic based systems and data analysis;
- chip manufacturing processes;
- analytical and control instrumentation; and
- analytical system architecture.

Please see the attached Exhibit A for a listing of some of our key patents.

Best Regards,



Richard Bunch
Portfolio Director, Microfluidics
PerkinElmer



HUMAN HEALTH |

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(PerkinElmer India Pvt. Ltd.)

To,
The Stores & Purchase officer
Forest research Institute
Dehradun

Date:01/10/2020

Sub: Authorization Letter

Dear Sir/Madam,

This is to inform you that we are hereby authorized **M/s H V Technologies B-7, Phase II, Behind FCI Godown Transport Nagar, Dehradun 248002** to invoice, supply and Quote the PerkinElmer range of Products–(Instruments/Consumables) from Applied genomics division in your esteemed Institute.

For any further clarifications please feel free to ask undersigned.

For PerkinElmer India Pvt. Limited



Thanks & Regards
Rajeev Kumar Shukla
Associate Regional Sales Manager
Mob-7738004336

TECHNOLOGIES

Quotation

Page 1 of 1

ne The Head (DG&TP) Division of Genetics & Tree Improvement Forest Research Institute P.O IPE, Kaulagarh Dehradun, Uttarakhand	Quotation No. A1525 Date 25-Jun-2020 Reference No Mr.Rajendra Meena Ref Date 25-Jun-2020 Due Date 25-Jun-2020
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Code	Description	HSN Code	Qty.	Pack	Rate	Amt.	Discount %	Discount Amt	CGST %	CGST Amt	SGST %	SGST Amt	Amount
1	CLS138948 - 24 DNA 1K/12K/Hi Sens LabChip - Perkin	3822	1	each	38,600.00	38,600.00			2.50	965.00	2.50	965.00	40530.00
GRAND TOTAL													40530.00

Terms and Conditions

PAN No. : ADLPK2540H
 GSTIN No. : 05ADLPK2540H1ZR
 Address: B-7, Phase II Transport Nagar Dehradun Uttarakhand. Email: info@hvidoon.co.in, Phone: 7500461461, 8650079222
 Bank Detail: Bank of Baroda. Transport Nagar. Dehradun A/c No-27120200000494. IFSC code- BARB01TRADEH
 for H.V.Technologies
 Authorised Signatory
 E. & O.E.