Ref: AIIMSM-ADMN/PROC(CPPP)/45/2024 – Procurement AIIMS MG **Date: 05-12-2025**

Call for Objection

Subject: Inviting comments/objection, if any before declaring proprietary article for procurement of "**Next Generation Sequencing Machine for DNA/RNA - Long read technology and consumables**" for the Department of Clinical Microbiology AIIMS Mangalagiri.

Clinical Microbiology Department, AIIMS Mangalagiri has to procure "**Next Generation Sequencing Machine for DNA/RNA - Long read technology and consumables**" through Proprietary Article basis.

The proposal submitted by M/s. Genotypic Technology (P) Limited. are the authorized Channel Partner of M/s. Oxford Nanopore Technologies plc., a private limited company registered in England, who is the official manufacturer of Flongle, MinlON, MinION Mk1C,GridION,PromethION,VolTRAX and its associated reagents including Flow cells and Sequencing kits, having factories at Oxford Science Park, Oxford, UK of this item along with Proprietary Article Certificate are attached & uploaded on Institute website.

The above documents are being uploaded for open information to submit objections, comments if any from any manufacturer/supplier before declaring proprietary article of the said equipment/items to be procured, within 10 days (i.e. 15-12-2025) from the date of issuance/uploading of the notification.

The objection should be raised in the technical compliance sheet as enclosed in Annexure -I, if any Firm claiming suitability of their product with respect to specification mentioned.

The comments should be sent to the office of Procurement Cell, Room no: 2151, Logistic block at AIIMS Mangalagiri in a sealed envelope with above reference on or before 15-12-2025 up to 05:00 PM from the date of uploading on institutional website, failing which it will be presumed that any other manufacture/vendor is having no comment to offer and case will be decided on merits.

Sd/-
AAO (Procurement cum Stores)
AIIMS Mangalagiri

P-3 Form

(To be attached with P-2 form for Proprietary items)

AIIMS, Mangalagiri

PROPRIETORY ARTICLE CERTIFICATE

It is certified that the item **Next Generation sequencing Machine DNA/RNA – long read technology** required in the P-2 Form should be purchased from **Oxford Nanopore Technologies.** To the best of my knowledge, **Genotypic Technology (P) Limited, #259, Apurva, 2nd Floor, 4th Cross, 80 Feet Rd, R.M.V. 2nd Stage, Bengaluru, Karnataka 560094,** is the exclusive authorised distributor and service provider for Next Generation sequencing Machine – Oxford Nanopore Technologies of the sole manufacturer.

No other make/brand will be suitable for our purpose for the following reasons:-

a. Offering the flexibility of independently controllable, high-output flow cells and leveraging state-of-the-art algorithms and GPU technology with the added advantage of flow cell reusability.
b. The high throughput sequencer generates data output of Up to 7 Tb /run with data streamed in real-time for immediate analysis. Ideal for large- and production-scale sequencing projects. Reads length from short to ultra-long (>4 Mb) reads with an average read length of 15Kb and above.
c. Sequencing chemistry should be based on advanced sensing technology and involves direct molecular analysis of DNA and RNA along with its modifications without the need of another library preparation and sequencing run.

These features are important for Next Generation sequencing Machines and, to the best of our knowledge, are not available in any other product.

Signature of Indenter 25/11/24

with date and Stamp

Dr. Debabrata Dash,
MBBS, MD(Microbiology), DNB, MNAMS
Assistant Professor
Department of Microbiology
All India Institute of Medical Sciences
Mangalagiri, Andhra Pradesh

Recommendation by HOD:

Dr Sumit Rai MD, PDCC (I.D.)
Professor and Head
Clinical Microbiology AIIMS-MG

Signature of Head of Department /Section

N.B.: The indenter before recording the above certificate should satisfy himself that the article is genuinely proprietary and manufactured under patent laws.

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Edmund Halley Road
Oxford Science Park
OX4 4DQ, United Kingdom

phone +44 (0)845 034 7900
fax +44 (0)845 034 7901
email info@nanoporetech.com

www.nanoporetech.com

Proprietary Certificate

Date:10/01/2024

To whom it may concern:

We, Oxford Nanopore Technologies Limited ('ONT'), are established and reputable manufacturers of sequencing equipment and associated reagents having manufacturing facilities on the Oxford Science Park and at Rutherford Appleton Laboratories, Oxfordshire, United Kingdom. We confirm that the MinION, GridION, PromethION sequencing products as well as associated reagents including flow cells, sequencing kits and barcoding kits are proprietary products of ONT and that no other company worldwide manufacturers these types of products.

The above products and reagents, as well as methods of sequencing and sample preparation are covered by exclusively licensed and ONT owned patents, patent and design applications, registered trademarks and applications for trademarks as set out in the Annex.

For and on behalf of Oxford Nanopore Technologies Plc

Philip Watkins
VP Finance

GOSLING BUILDING
EDMUND HALLEY ROAD
OXFORD SCIENCE PARK
OXFORD, OX4 4DQ

Dr Sumit Rai MD, PDCC (I.D.)
Professor and Head
Clinical Microbiology AIIMS-MG

Dr. Debabrata Dash,
MBBS, M... Microbiology), DNB, MNAM...
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CONFIDENTIAL

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Annex

Patent Number	Published On
WO2015/166276	05.11.2015
WO2016/034591	10.03.2016
WO2017/149316	08.09.2017
WO2017/149317	08.09.2017
WO2017/149318	08.09.2017
WO2014/013260	23.01.2014
WO2015/055981	23.04.2015
WO2016/055777	14.04.2016
WO2012/164270	06.12.2012
WO2015/150787	08.10.2015
WO2015/150786	08.10.2015
WO2016/059375	21.04.2016
WO2014/135838	12.09.2014
WO2015/110813	30.07.2015
WO2014/064443	01.05.2014
WO2016/181118	17.11.2016
WO2009/077734	25.06.2009

Design Number	Granted/Pending
IN- 312257	22.05.2018
IN- 312256	22.05.2018
IN- 312255	Pending
IN- 312254	22.05.2018
IN- 312253	22.05.2018

Registered trademarks/trademark applications in India
1226665
2177535
2433060
1678247
3212909
1980016
1287374
1443889
2142788
1193800
1320569
1224040
1238361
1360676
1320436
1343129

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10TH May 2024

Attn: The Director,
All India Institute of Medical Sciences(AIIMS),
Mangalagiri, CHVM+RWC, Mangalagiri, Andhra Pradesh
522503, Telangana

MANUFACTURER AUTHORIZATION FORM

Oxford Nanopore Technologies plc., a private limited company registered in England, who is the official manufacturer of Flongle, MinION, MinION Mk1C, GridION, PromethION, VolTRAX and its associated reagents including Flow cells and Sequencing kits, having factories at Oxford Science Park, Oxford, UK hereby authorise the Genotypic Technology (P) Limited, registered in Karnataka, India under company number U72200KA1998PTC049038 and having its registered office at #259, Apurva, 2nd Floor, 4th Cross, 80 Feet Rd, R.M.V. 2nd Stage, Bengaluru, Karnataka 560094, to submit a bid the purpose of which is to provide the above Goods, manufactured by us and to subsequently negotiate to sign the Contract. Such right is subject to the terms of the Distribution Agreement dated 25th October 2017 entered into between the parties.

We hereby confirm that we extend our warranty as per our distribution agreement cited above in case of discrepancy with regard to quality, quantity, packages or defects at the time of supply/usage of our products.

If you require further information regarding any of the company's devices, flow cells or consumables, please contact Customer Solutions at support@nanoporetech.com.
Yours sincerely,

Phil Watkins (May 14, 2024 09:28 GMT+1)

Phil Watkins
VP Finance
Oxford Nanopore Technologies plc

Registration No 05386273
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Page **6** of **9**

Technical specifications for NGS lab equipment's

Technical Specification for Next-Generation Sequencing Machine for DNA/RNA: (Long read) Quantity: 01

1. Sequencing chemistry should be based on advanced sensing technology and involves direct molecular analysis of DNA & RNA along with DNA & RNA Modification from the same sequencing run.
2. Offering the flexibility of independently controllable, high-output flow cells and leveraging state-of-the-art algorithms and GPU technology with the added advantage of flow cell reusability.
3. The high throughput sequencer generates data output of Up to 7 Tb /run with data streamed in real-time for immediate analysis. — ideal for large- and production-scale sequencing projects.
4. Simple plug-and-play device and needs a minimal IT infrastructure, a small footprint, suitable for any lab.
5. Reads length from short to ultra-long (>4 Mb) reads with an average read length of 15Kb and above.
6. The sequencer should accompany with high-end Data Acquisition Unit: 2.2 kW max power consumption, 60 TB SSD data storage, 512 GB RAM, Latest generation CPU, 4 x NVIDIA A100 GPUs, Preloaded with Ubuntu OS and other sequencing software, Dual 10 Gbps fibre or ethernet connection (20 Gbps bandwidth), Weight - 25Kg, Dimensions: W 178 mm, H 440 mm, D 470 mm. Environmental ranges: Designed to sequence at +18° C to +22° C*, Maximum heat output: 6,824 BTU/hr, Input voltage range: Data Acquisition Unit**: Input voltage range: 200–240 V (50/60Hz).Maximum power (240 V input): 2.2 kW, Operating current (240 V input): 9.1 A.
7. Should generate >100 million reads for cDNA transcripts with a single run.
8. Having Raw read accuracy for >Q20 (>99%) and around Q30 (99.9%) Duplex Sequencing.
9. The system should be compatible with both DNA/RNA-based sequencing applications such as Whole Genome Human, Plant & Animal, Targeted sequencing, Metagenomics (16S and Whole genome metagenome), Population scale sequencing, RNA sequencing and Methylation with additional benefits of Direct RNA sequencing and Methylation data from whole genome sequence data without going for bisulphite conversion or additional library prep protocol.
10. Simple and Rapid workflows, PCR-free library preparation protocols and multiplexing of up to 96 samples in a single flow cell using barcodes still can be re-used.
11. The vendor should provide end-to-end NGS Analysis software suitable for all the NGS applications. Should be a GUI based analysis interface designed to replace command line scripting, minimize keying errors and provide multiple analysis tools through one interface. It efficiently handles both short and long-read data, each accompanied by intuitive reports containing graphical representations and descriptive summaries.
12. The sequencer system should generate standard data output formats, FAST5 and FASTQ which are compatible with all downstream analysis software.

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13. Flexible run-time from 1-72 hours.
14. Conforms to the EMC and Electrical Safety directives as per the EC Declaration of Conformity.
15. Installation support & complete hands-on training for at least 1 week/until initial runs.
16. Vendor should have an in-house genomics NGS lab with supportive publications on the NGS platform.
17. The vendor should provide consumables to prepare WGS Metagenomics (DNA/RNA) Bacteria/Viral/Transcriptomics for 100 samples.
18. The vendor should provide respiratory disease (Influenza, SARS COV-2, Adeno Virus), Viral Panel, HLA Panel, and Onco panel along with the instruments.
19. Installation support & complete hands-on training for at least one month.
20. The vendor should provide software and device Warranty for 5 years, post-Warranty AMC/CMC covering for 5 years.
21. The vendor should provide IQ, OQ, and PQ certificates.

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ANNEXURE – I

SPECIFICATIONS

Objection should be submitted in following format:

S. no	Item specification as given	Specification offered by firm	Deviation if any	Remarks