## **National Institute of Immunology**

## New Delhi-110067, INDIA

Notification for Inviting proprietary purchase

Dated: 13.01.2025

NII is planning the procurement of the following item through proprietary mode.

Name of the item: Sequencer device

Make:- Oxford Nanopore

Model:- MinlON

Any other firm with item meeting the below mentioned specification may contact to equipment@nii.ac.in latest by 28-01-2025 or send the quotation in two bid system

(technical and price separately)

## **Specification of MinION MK1C Sequencer**

Name of the Equipment/Instrument: - DNA / RNA Sequencer

Make: Oxford Nanopore Technology Ltd., U.K.

## Model: MinION MK1C

- MinION MK1C is based on the advanced Nanopore sensing technology and involves direct molecular analysis of DNA/ RNA.
- 2. MinION MK 1C is **portable and has small footprint**, suitable for any lab and field application. Size and weight: H 30 mm x W 140 mm x D 114 mm; Wt 450 g.
- 3. MinION MK1C is entirely self-contained with integrated high-definition touchscreen and requires no other computing resource. It has latest generation GPU embedded analysis accelerator, 1 TB SSD Storage, 8 GB RAM, Connectivity using WiFi, USB, MicroSD and Ethernet. It comes with Pre-loaded software Linux OS, MinKNOW Core which operates the sequencing experiments and Guppy for analysis of data.
- 4. MinION MKI C is a **high through-put** sequencer that generate data output of **up to 30-40 Gb /run** with data streamed in **real time** for immediate analysis.
- MinION MK1C reads the length from short to ultra-long (>4 Mb) reads with an average read length of 15Kb and above.
- MinION MK1C can run Flongle or MinION Flow Cell with added advantage of flow cell reusability.
- 7. MinION MK1C is compatible for both DNA/ RNA based sequencing applications such as whole genome sequencing, Targeted sequencing, Metagenomics (16S and Whole genome metagenome), RNA sequencing and Methylation with additional benefit of Direct RNA sequencing and Methylation data from whole genome sequence data without going for bisulphite conversion or additional library preparation protocol.
- MinION MK1C includes options for flexible workflows, PCR-free library preparation protocols and multiplexing of up to 96 libraries in a single flow using barcodes.
- The sequencer along with Flow cell, Ligation Sequencing kit, Control Expansion kit, flow cell wash kit.