Ref No: RAIC/2025/02/088

NIT (Notice Inviting Tender)

Bids are invited in sealed envelopes for laboratory equipment on behalf of Research and Innovation Cell, Nims University for the ongoing ICMR project entitled "**Establishment of Centre for Advanced Research for Bacteriophage Research and Therapy to Combat Multidrug-Resistant Infections Caused by ESKAPE Pathogens**" (Project Code: N-I-P-01).

S. No.	Equipment	Quantity
1	MinION MK1D device with Accessories including Fluorometer	1

The quotation subscribed as (N-I-P-01/NIT-03) addressed to **Research and Innovation Cell (RAIC), Hotam Admin Block, Nims University Rajasthan, Jaipur** should be sent via speed post or courier latest by 8 days after the opening of the tender (in separate envelops for every equipment, with same Nit number "N-I-P-01/NIT-03").

Time of closing of the bid: 15/ February/ 2025, 13:00
Time of opening of the bid: 15/ February / 2025, 15:00
Bid system: 2 bid system
EMD: Not Applicable

Terms and Conditions:

- ✓ Compatibility chart to be provided with all the bids.
- ✓ The bids will be submitted separately in two envelopes with the same NIT number.
- ✓ After receiving the PO vendors need to provide the equipment's within 45 -60 days. Delay in delivery will be claimable for a penalty of 100 Rs/day.
- ✓ Safe delivery of the required equipment to Nims University will be the sole responsibility of the vendor

Oxford Nanopore Sequencing Consumables

Consumables	Brand/Catalogue No.	Qty. required
R10.4.1 flow cells	FLO-MIN114	1
Flow Cell Wash Kit	EXP-WSH004	1
NEB Blunt/TA Ligase Master Mix	NEB, M0367L	1
Native Barcoding Kit 24 V14	SQK-NBD114.24	1
NEBNext FFPE Repair Mix	NEB, M6630S	1
NEBNext Ultra II End repair/dA-tailing Module	NEB, E7546S	1
NEBNext Quick Ligation Module	NEB, E6056S	1
Control Expansion Kit	EXP-CTL001	1
Qubit dsDNA Quantitation, High Sensitivity (500 Reactions)	Invitrogen, Q32854	1
Qubit dsDNA Quantitation, Broad Range (500 Reactions)	Invitrogen, Q32853	1
Bovine Serum Albumin (BSA) (50 mg/ml)	Invitrogen™ UltraPure™ BSA 50 mg/ml, AM2616	1
AMPure XP Reagent	Beckman Coulter, 5 ml: A63880	
Nuclease-free water	ThermoFisher, AM9937	1
Eppendorf twin.tec® PCR plate 96 LoBind, semi-skirted with heat seals	Eppendorf™, cat # 0030129504	1
0.2 ml thin-walled PCR tubes, Eppendorf	Catalog No. 0030124332, Eppendorf	1
1.5 ml Eppendorf DNA LoBind tubes	Catalog no. 0030108051, Eppendorf	2
2 ml Eppendorf DNA LoBind tubes	Catalog no. 0030108078, Eppendorf	2
Qubit™ Assay Tubes (500 µL)	Invitrogen, Q32856	2
1000 µL ART™ Barrier Low-Retention Pipette Tips	Thermo Scientific, 2279-05PK	1
200 µL ART™ Barrier Low-Retention Pipette Tips	Thermo Scientific, 2069-05PK	1
10 µL ART™ Barrier Low-Retention Pipette Tips	Thermo Scientific, 2140-05PK	1
ART 200G, Wide bore, Filtered, Sterile, Lift-off Lid Rack	Thermo Scientific, 2069G	1
ART 1000G, Wide bore, Filtered, Sterile, Lift-off Lid Rack	Thermo Scientific, 2079G	1

Specifications:

S. No	Name of equipment	Specifications
1	**MinION MK1D device with Accessories including Fluorometer**	1. 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. 2. Is portable and has a small footprint, Size – 13*55*125 (mm) ; Weight : 130 gm ; Maximum rated power : 7.5W ; USB – C installation ports, MinION drivers installed, designed to sequence at 10 – 35 degrees C. 3. MinION MK1D can run Flongle or MinION flow cells with added advantage of re – usability of the flow cells. Each flow cell can generate a theoretical data output of up to 50 Gb. The read length is from short to ultra-long i.e. 15 Kb – 4 Mb. 4. Having options for flexible workflows, **PCR-free library** preparation protocols and multiplexing of up to 96 samples in a single flow using barcodes. 5. The sequencer system to generate standard output formats: **FAST5 and/or FASTQ** which is compatible for all downstream analysis software. 6. EU declaration of conformity for harmonized standards and technical specifications have been applied. 7. MinION MK1D needs to be connected to a mobile workstation. Workstation should be with the following specifications:

			Operating system	Windows – 10/11, Ubuntu 20.04/22.04 LTS,
			Memory/RAM	16 GB RAM or higher
			CPU	Intel i9, Xeon, or better, with at least 4 cores/8 threads,
			GPU	NVIDIA Ampere-based GPU (3000 series/ A series) with 8 GB or higher GPU memory
			Storage	1 TB internal SSD or higher
			Peripheral	USB Type-C (USB 2.0 speeds or greater)
			Warranty	5 year comprehensive license & warranty
			Software	The workstation to be provided with Commander software.

8. Qubit 4 Fluorometer with NGS Starter Kit
9. Hula mixer
10. DynaMag-2 magnetic rack
11. Comprehensive warranty for 5 years after installation of the equipment

Kindly stuck with the specifications.

Prof (Dr.) Mahaveer Singh
Director,
Research and Innovation Cell,
Nims University Rajasthan, Jaipur