

EQUIPMENT PROCUREMENT ADVERTISEMENT

INVITATION TO BID / TENDER NOTICE

Jyoti Nivas College Autonomous Bengaluru Karnataka, 560095 invites **sealed bids** from **eligible, qualified, and registered suppliers** for the supply, delivery, installation, and commissioning (where applicable) of the following equipment under DST-WISE-KIRAN CURIE project File No.: DST/CURIE-PG/2024/26 dated 11/08/2025.

1. Description of Equipment:

Sl. No.	Items	Quantity	Specification
1.	Printer and Scanner	1	HP Color Laser MFP 178nw Printer <ul style="list-style-type: none">• All-in-One Laser Multifunction• Print, Copy and Scan• Dynamic Security enabled printer• Print speed: up to 18 pages (black) and 4 pages (color)• USB, Ethernet, Wi-Fi
2.	Computer with Monitor	10	Product Model (or equivalent) Dell OptiPlex 7010 Micro Plus or Higher Configuration 13th Gen Intel® Core™ i5-13500T (14 cores), Windows 11 Pro, English Memory: 32 GB: 2 × 16 GB, DDR5 (Dual-Channel) Harddrive: 1 TB, M.2 PCIe Gen 4 NVMe SSD Monitor: Dell 22" QHD (2560×1440), IPS, USB-C, 75Hz Connectivity: Wi-Fi 6E + Bluetooth Warranty: 3 Years ProSupport + ADP
3.	High-Performance Workstation	01	Product Model (or equivalent) <u>Dell Precision 5860 Tower or higher configuration</u> Processor: Intel® Xeon® W5-2465X (33.75 MB cache, 16 cores / 32 threads, 3.1 GHz to 4.7 GHz Turbo, 200W) Operating System: Linux OS preferred – Debian 12 / Ubuntu 22.04 LTS or Fedora Workstation Memory: 128 GB RAM (4 × 32 GB), DDR5, 4800 MHz, ECC RDIMM Graphics: NVIDIA RTX 4000 Ada Generation, 20 GB GDDR6, 4 × DisplayPort Storage:

			<ul style="list-style-type: none"> • Primary: 2 TB M.2 2280 PCIe NVMe Gen4 x4 SSD, Self-Encrypting (Opal 2.0) – OS & Software • Secondary: 2 TB M.2 2280 PCIe NVMe Gen4 x4 SSD, Self-Encrypting (Opal 2.0) – Research Data • Total: 4 TB, Class 40, Full Hardware Encryption <p>Security: Endpoint Security as per institutional policy, Hardware-encrypted storage (Opal 2.0)</p> <p>Networking: Dual Ethernet (1GbE + 10GbE), Optional Wi-Fi 6E + Bluetooth 5.3</p> <p>Warranty: ProSupport Plus with Next Business Day Onsite Service, 36 Months Accidental Damage Service, 36 Months</p> <p>Displays: Dell UltraSharp U2723DE 27" QHD IPS Monitor × 2</p> <p>Software Stack: CUDA Toolkit, Docker, Python Scientific Stack, TensorFlow/PyTorch, Jupyter, Development Tools</p> <p>Backup: External 4TB USB backup drive or network backup to institutional server</p>
4	UV/Vis Spectrometer	01	<ul style="list-style-type: none"> • PC BASED DOUBLE BEAM UV-VIS SPECTROPHOTOMETER RANGE (200 1100NM) BANDWIDTH : 2NM INCLUDING OPERATING SOFTWARE BUT WITHOUT PC & PRINTER
5	Microwave reactor	01	<ol style="list-style-type: none"> 1. capable of conducting normal pressure reaction like condensation, reflux reactions by using round bottom flask further upgradation. Built in operating system with fluorescent Display and alphanumeric keypad lcd for entry of operating parameters. System must operate stand alone. Without PC. Open vessel reaction 100 ml or more open vessel round bottom flask– 03 Numbers. Pressurize Glass vessels of following specifications should be offered with Volume: 10 ml – 03 nos Temperature control : System should have bottom

			<p>mounted infrared temperature control</p> <p>Upgradability: System must be upgradable for following & accessories for the same should be offered as optional</p> <ol style="list-style-type: none"> 1) Accessory for sub ambient temperature from -80 deg to 300 deg 2) Accessory for gas purging 3) Upgradability for Peptide synthesis. <ul style="list-style-type: none"> • At least 3 independent safety interlocks, including vessel interlock monitoring system, plus two independent thermal switches to prevent instrument operation and microwave emissions in case of improper attenuator closure or misalignment. • Self tuning Microwave Cavity with Wave Guide- Heavy-duty, multi-layer stainless steel Teflon coated for non corrosive. <ol style="list-style-type: none"> 2. Ample power (300W-1000 W) for a broad range of syntheses the ability to run more than 1 vessel for pressurized reactions varying from 10mL to 100ml vessels. Temperature control (up to 300°C), a large and variable electromagnetic stirring. Rapid post-synthesis cooling, and communication ports for data transfer. Pressure control through vent and reseal technology (up to 1500 psi) automatically by the controller, allowing safe, automatic, and unattended venting while ensuring an entirely contained system. <p style="margin-left: 40px;">Accessory Kit - necessary accessories and consumables for unit operation, including additional three vessels, caps, and stir bars.</p> 3. Alternatively, microwave-reflex setup 50ml-large, can be quoted with required accessories as well.
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6	Biological Safety cabinet	01	<ul style="list-style-type: none"> The biological safety cabinet shall be Class II Type A2 with vertical laminar airflow and dual HEPA filtration providing $\geq 99.97\%$ efficiency at $0.3 \mu\text{m}$. It shall provide personnel, product, and environmental protection, have a front sliding sash, low noise operation (≤ 65 dB), UV and fluorescent/LED lighting, and comply with international biosafety standards.
7	PCR Machine	01	<ul style="list-style-type: none"> The PCR machine shall have a 96-well block compatible with 0.2 mL tubes/plates, temperature range of 4°C to 99°C, temperature accuracy of $\pm 0.2^{\circ}\text{C}$, and heating/cooling rate of at least $3\text{--}5^{\circ}\text{C}$ per second. It shall support programmable thermal cycling with optional gradient function and microprocessor-controlled operation.
8	Laboratory Inverted Microscope	01	<ul style="list-style-type: none"> The inverted microscope shall be equipped with an infinity-corrected optical system, LED transmitted illumination, and phase-contrast objectives (10\times, 20\times, and 40\times). It shall support magnification up to at least 400\times, have a mechanical stage suitable for culture vessels, and be designed for live cell observation.
9	Carbon Dioxide (CO ₂) Incubator	01	<ul style="list-style-type: none"> The CO₂ incubator shall operate at a temperature range of ambient $+5^{\circ}\text{C}$ to 60°C with temperature uniformity and accuracy of $\pm 0.2^{\circ}\text{C}$. It shall provide CO₂ control from 0–20%, maintain $\geq 95\%$ relative humidity, and have a stainless-steel inner chamber with microprocessor-based control and digital display.

10	Cooling Centrifuge Machine	01	<ul style="list-style-type: none"> The refrigerated centrifuge shall have a maximum speed of at least 15,000 rpm with a maximum RCF of approximately 20,000 × g. It shall operate within a temperature range of –10°C to +40°C, support both fixed-angle and swing-out rotors, and include safety features such as lid locking, imbalance detection, and automatic shutdown.
11	Networking Computational Facilities		<p>Enterprise Firewall Solution</p> <p>Next-generation firewall with IPS, IDS, VPN, Antivirus, Web Filtering, Application Control, Anti-Malware, DNS Security, SSL Inspection, and DoS/Flood Protection</p> <ul style="list-style-type: none"> Minimum firewall throughput of 1 Gbps, supporting 100+ concurrent users Support for multi-zone architecture (LAN, WAN, DMZ, WiFi, Server Network) and High Availability (HA) readiness Cloud-managed centralized management dashboard with role-based access control Hardware specifications (Desktop form factor appliance): <ul style="list-style-type: none"> 1× 1GbE WAN (Copper/SFP) 1× 1GbE SFP port 4× 1GbE LAN ports 802.11ax (Wi-Fi 6) 2×2 MIMO On-site installation, deployment, configuration, security policy setup, and administrator training included 3-Year OEM-backed hardware warranty and security subscription support
			Product SKU (or equivalent): CPAP-SG2550W-SNBT or higher

4. Eligibility Requirements:

Interested bidders must submit copies of the following:

- a. Valid business registration certificate
- b. Tax clearance certificate
- c. Relevant trade/license permits
- d. Company profile and experience in similar supplies
- e. Any other statutory documents as required

5. Bid Documents:

Bid documents can be obtained from Jyoti Nivas College from 23rd January 2026 onwards during working hours.

Name and Address of the Supplier	
Quotation Submitted For	
Date of submission to college office	

6. Submission of Bids:

Completed bids must be sealed and clearly marked “**Bid for Supply of [Equipment Name]**” and delivered to:

Jyoti Nivas College Autonomous
KHB Colony, 5th Block, Koramangala, Bengaluru, Karnataka 560095

7. Reservation of Rights:

Jyoti Nivas College Autonomous Bengaluru Karnataka India reserves the right to accept or reject any or all bids without assigning any reason.

Issued by:

Procurement Committee

Dr. Sr. Mary Louisa S
Principal

Jyoti Nivas College Autonomous
KHB Colony, 5th Block, Koramangala, Bengaluru, Karnataka 560095

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