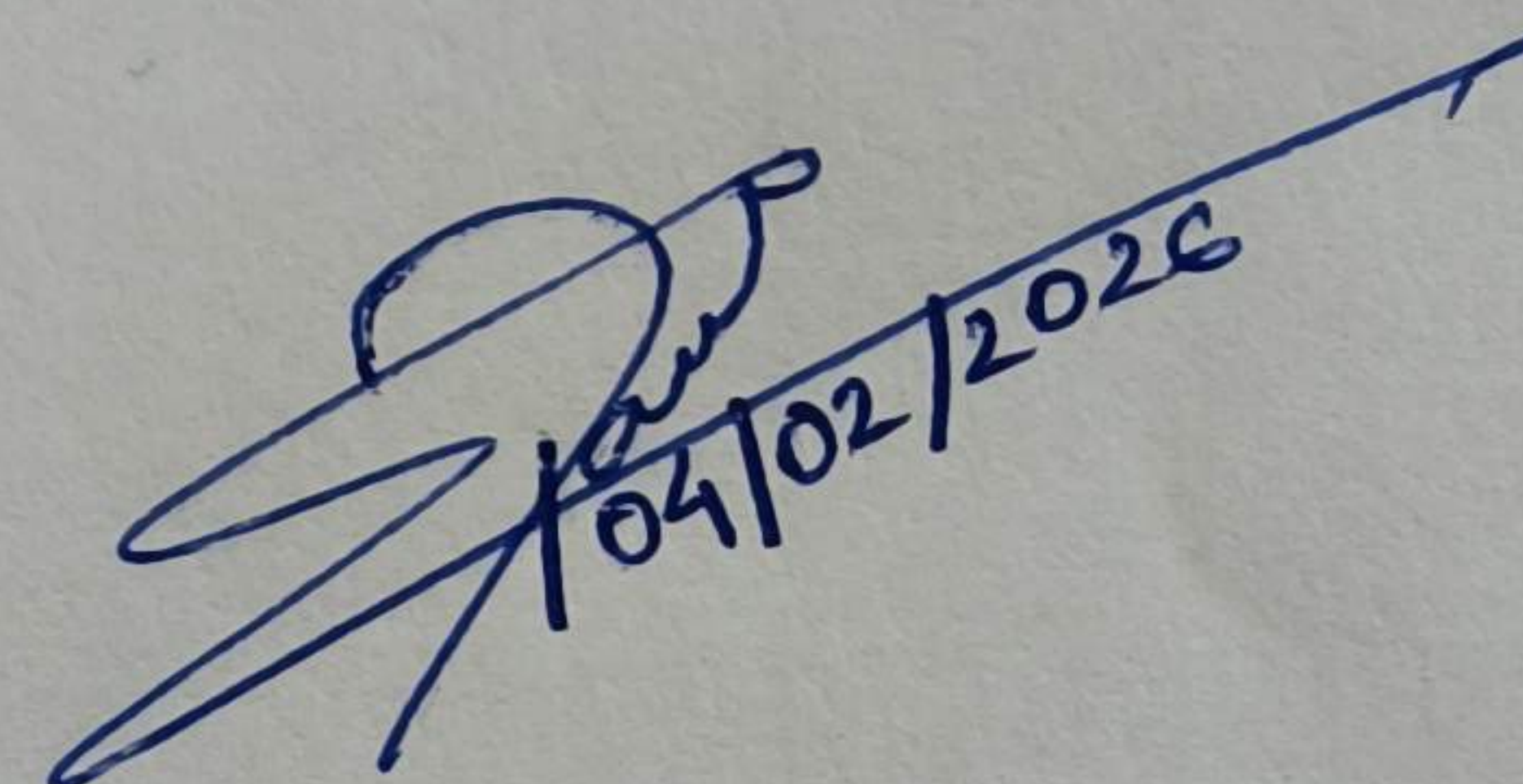




**NORTH EASTERN REGIONAL INSTITUTE OF
SCIENCE & TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
NIRJULI :: ITANAGAR :: ARUNACHAL PRADESH**

**NOTICE INVITING QUOTATION NO. MP/PH/SG/2005-01
Dated. 04/02/2026**

THE LAST DATE OF RECEIPT OF NIQ	:	16/02/2026 up to 12.00 Noon
DATE OF OPENING OF NIQ	:	16/02/2026 at 4.00 PM


04/02/2026

NORTH EASTERN REGIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University u/s 3 of the UGC Act, 1956)

Under the Ministry of Education, Govt. of India

NIRJULI :: ARUNACHAL PRADESH

Telephone No. (0360) 2257401-11 (Extn. No.7252/7256),

FAX – (0360) 2258533/2257872



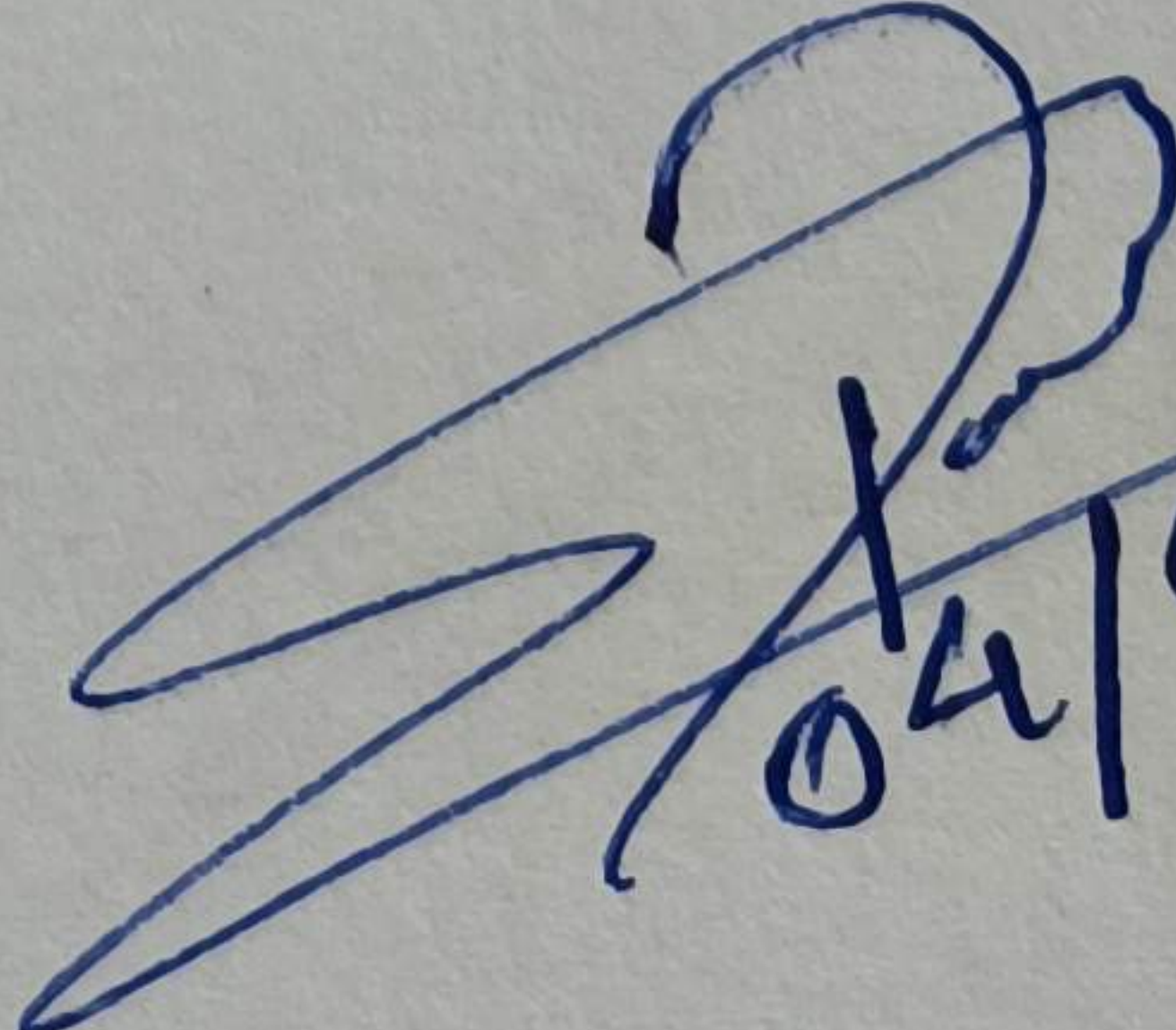
NOTICE INVITING QUOTATION NO. MP/PH/SG/2025-01

Dated. 04/02/2026

Sealed Notice Inviting Quotations are invited from reputed manufacturers/authorized dealers for supply, installation, and commissioning of the laboratory items for the Seed Project, under Dr. Mihir Paul, PI (Assistant Professor, Physics Department). The details of NIQ can be downloaded from our website : www.nerist.ac.in. The last date of receiving NIQ is 16/02/2026 upto 12.00 Noon and the date of opening of NIQ is 16/02/2026 at 4.00 PM. The Director, NERIST reserves the right to accept or reject any NIQ partly or fully without assigning any reasons whatsoever.

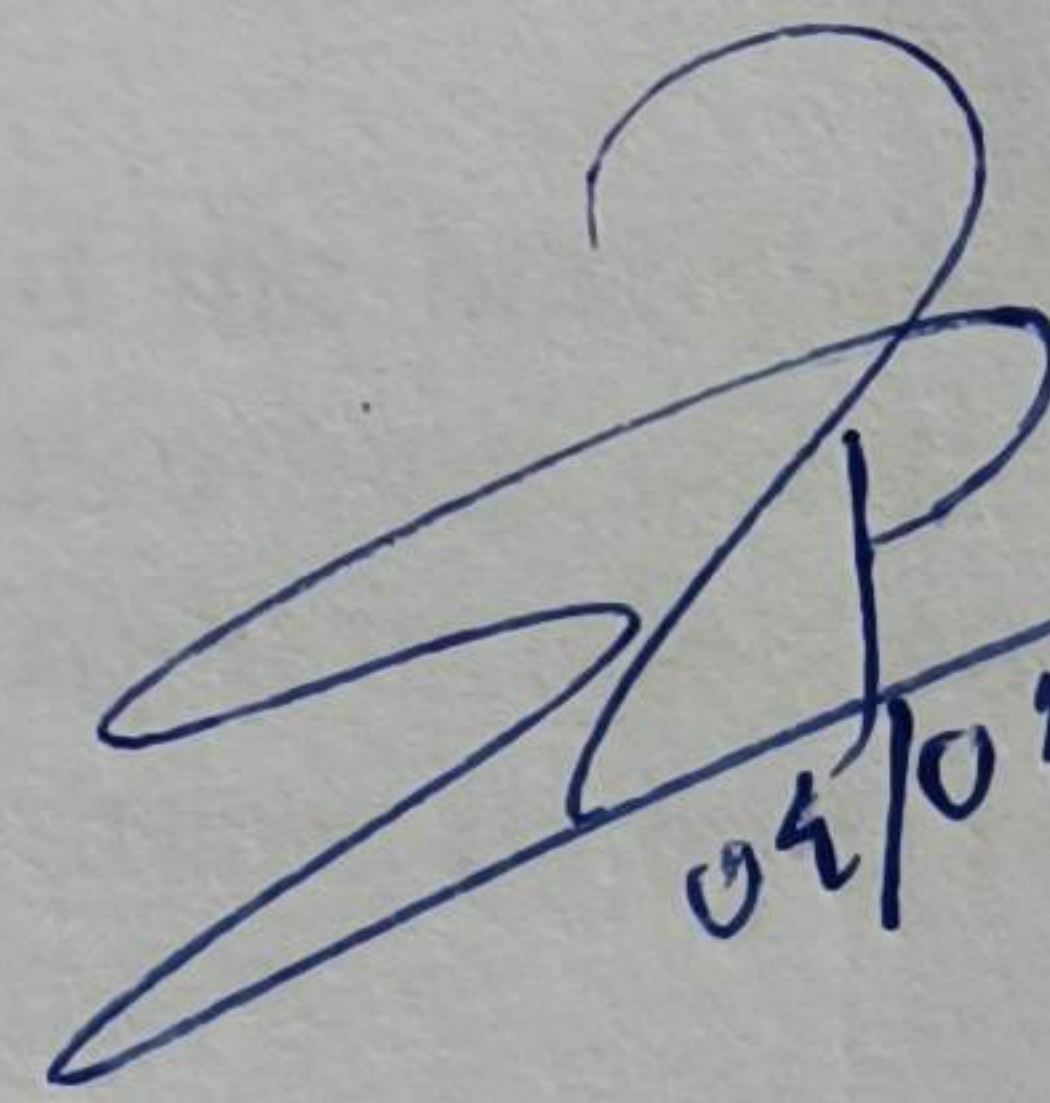
Sd/-

Dr. Mihir Paul, PI


04/02/2026

CONTENT

Sl. No.	Particulars	Page No.
1.	Terms & Conditions	1 – 4
2.	Equipment / Items	5-6


04/02/2026

**NORTH EASTERN REGIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY
NIRJULI :: (ITANAGAR) :: ARUNACHAL PRADESH**

NOTICE INVITING QUOTATION NO. MP/PH/SG/2025-01 Dated. 04/02/2026

TERMS AND CONDITIONS :

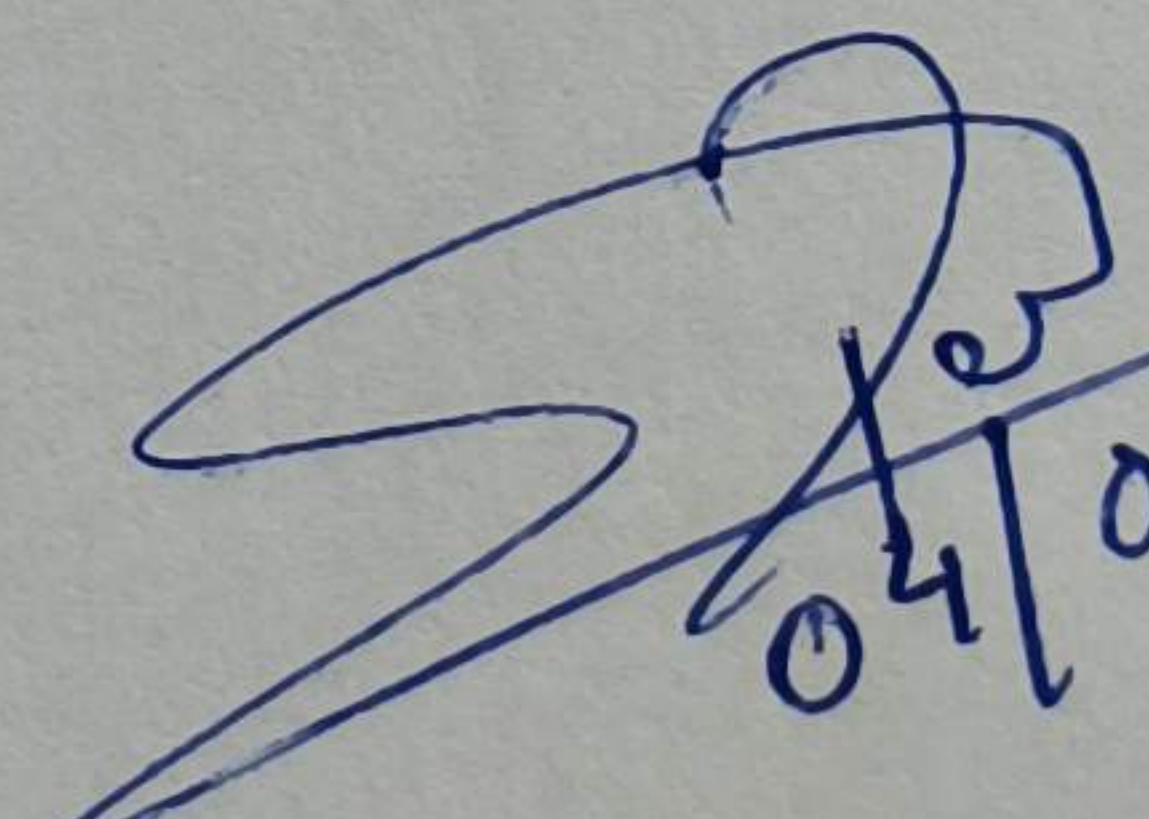
1. A) Rate : The rate which should be quoted both in figure & words must be not inclusive of packing forwarding freight and all other incidentals charges.

B) GST : Rate inclusive of GST will not be preferred. GST to be shown separately.
2. A) Consignee : All stores are required to be consigned to the Director, North Eastern Regional Institute of Science & Technology, Itanagar, Nirjuli, Arunachal Pradesh – 791109.

B) Mode of dispatch : The consignment is required to be dispatched by Road Transport or delivered at this Institute under supplier's own arrangement free of additional charges. All offers of delivery should be made ex-stock and clear note should be inserted in case of damage or loss in transit, if any will be borne by the supplier.

C) Dispatch of Document: The consignment note along with the quadruplicate of copy of relevant bill and two copies of priced challan should dispatch to the Director, NERIST, Nirjuli (Itanagar), Arunachal Pradesh – 791 109 immediately on completion of dispatch of consignment. If these documents do not reach the said office in time all wharf age/demurrage incurred, if any will be recoverable from the suppliers.
3. Delivery: The stores are required to be delivered/dispatched within thirty (30) days from the date of receipt of the supply order OR as per mutual agreement, suppliers are requested to take care that all the items mentioned above are to be supplied in full set basis and the items are required to be installed in the Laboratory/field. Users manuals are also to be provided along with the items supplied.
4. Quality Specification: The stores offered should be of the best/standard quality available unless, otherwise specified conforming strictly to the specification cited. The Director reserves the right to reject such stores as are found unacceptable on these grounds. Items of only reputed manufacturers will be given preference.
6. Submission of quotation: Quotation should be submitted to the Dr. Mihir Paul, Assistant Professor, Physics Department, NERIST, Itanagar, Nirjuli, Arunachal Pradesh – 791109 in double sealed cover. The cover should bear NIQ enquiry/Notice Number and date.

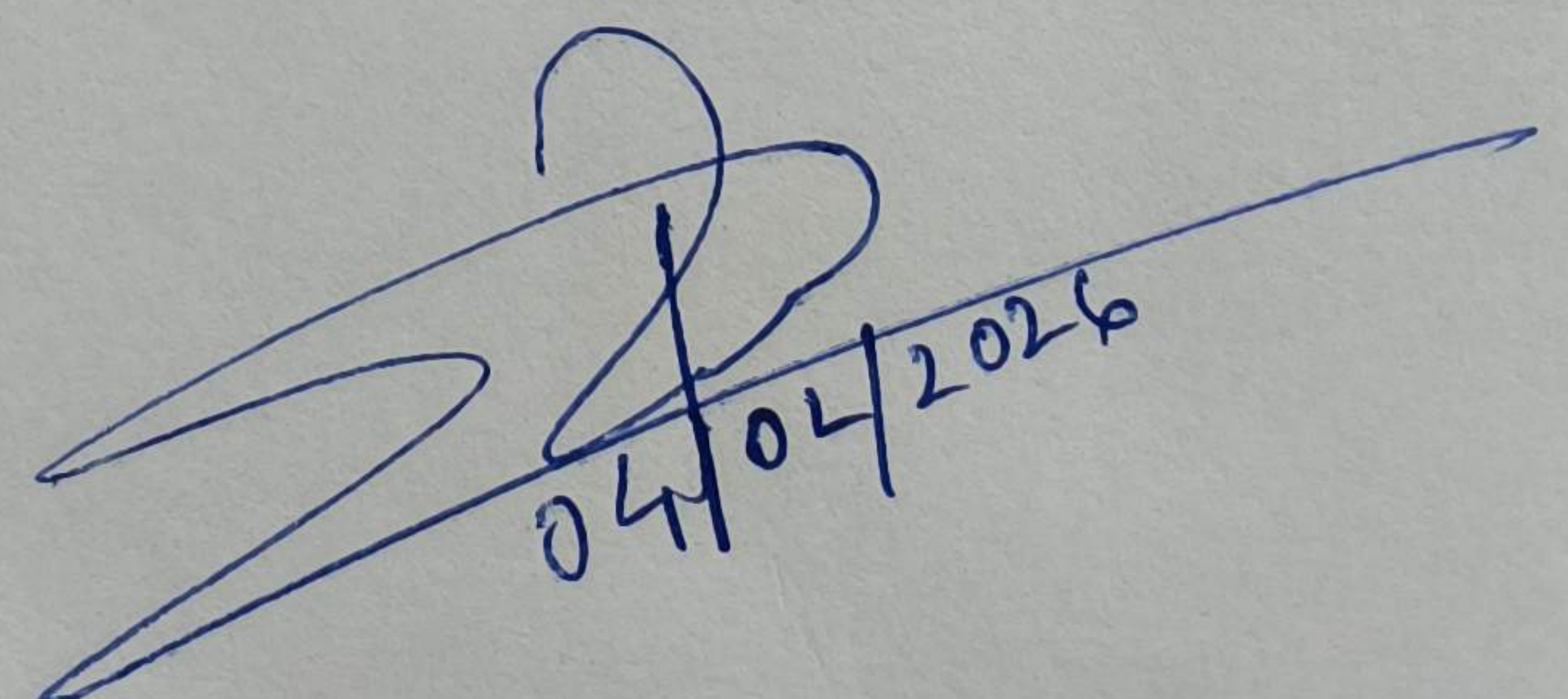
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04/04/2026

7. Validity (Firmness): The rate should be valid for six months from the date of opening of NIQ. No representation for enhancement of price once accepted will be considered during the contract.
8. Opening of Quotation: (a) Every quotation will be opened on the date and time as fixed in presence of a duly constituted committee of the Institute. A firm may depute its accredited representative to witness the opening if it so desires.
- (b) In the event of the specified date for the opening of Tender is declared a holiday or due to any circumstances, if the NIQ could not be opened on the specified date by the NERIST, the NIQ will be opened at the appointed time and location on the next working date.
9. Mode of payment: Payment will be made on receipt of the bill (on full satisfactory supply of ordered stores, their commissioning, installation etc. as required as per terms and conditions) through RTGS. No advance payment will be made to any selected firm as per Institute norm.
10. Quantity of Stores: Actual quantities of item will be fixed as per our requirement at the time of placement of purchase order.
11. Special discount/rebate: Special discount/rebate admissible to Educational Institute of National importance may be specifically indicated in the quotation.
12. Rejection of offer: NIQ not conforming to the terms and conditions and procedure so outlined are liable to be rejected summarily.
13. Guarantee/Warranty : The stores should be covered by warranty of quality/warranty of performance and manufactures defect for a minimum period of 12 (twelve) months OR as per the norms of the company which ever is higher from the date of satisfactory installation.
14. Special condition : Special condition, if any, printed on the quotation sheets of the NIQ or condition attached with the tender will not be applicable to the contract unless these are expressly accepted in writing by the Director. Due weight age will be given to bidder offering warranty for a longer period.
15. ISI Marks : The NIQ shall specify whether the articles offered bear bureau of Indian standard certification mark or not. In such cases they shall produce copies of certification mark along with their tender in support of it. Also specific make and model No. of the item is to be mentioned.
16. Discretionary power : The Director, NERIST reserves the right to accept or reject any or all NIQ without assigning any reason there of and also to modify in exceptional case any of the stipulated terms and conditions on merit on genuine and justifying grounds if it is in the larger interest of the Institute. The final acceptance of the NIQ rests entirely with the Director who does not bind himself to accept the lowest tender.

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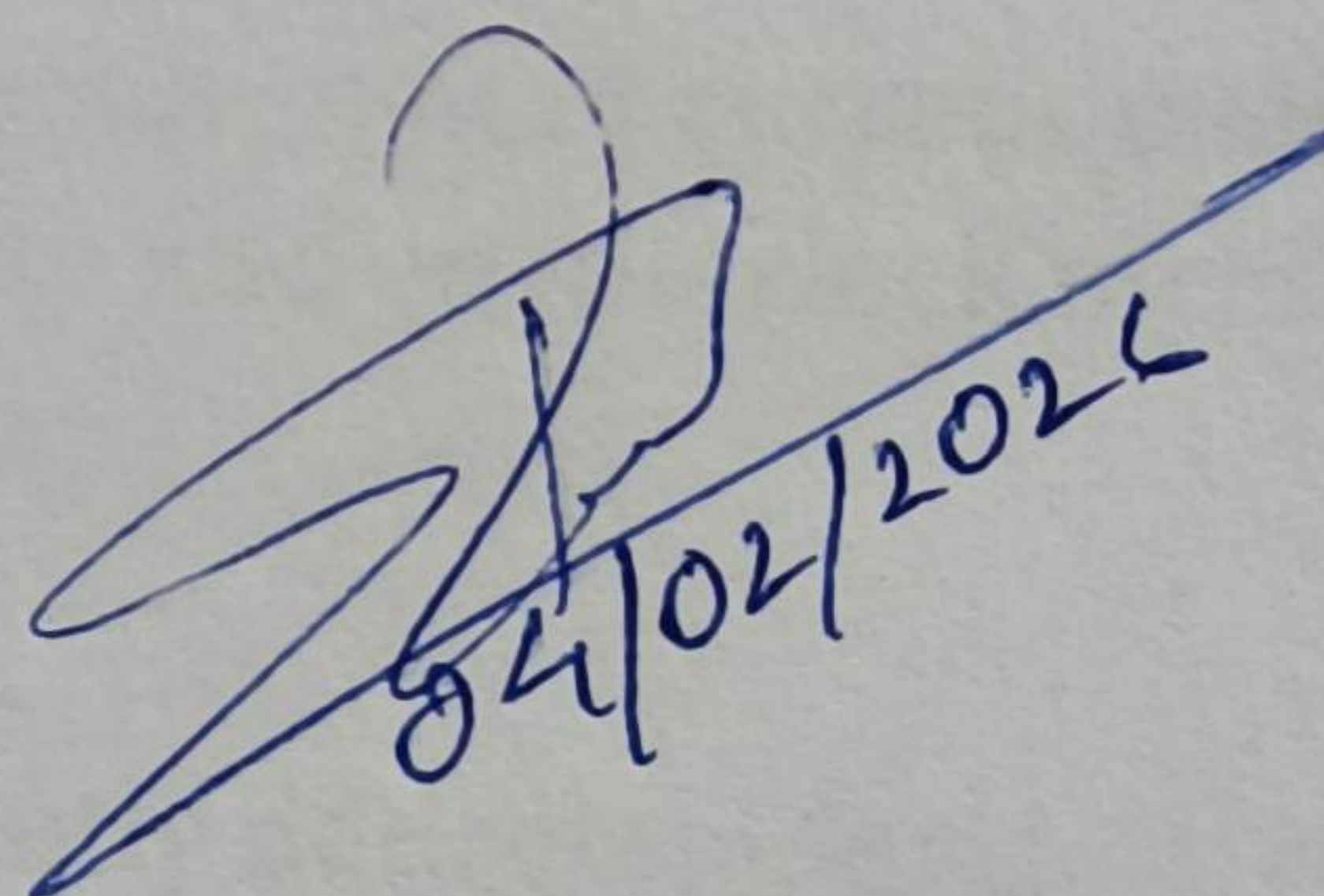


17. Receipt of the NIQ: The last date of receiving tender is 16/02/2026 upto 12.00 Noon.
18. Price: Abnormal price OR price higher than prevailing Market Rate / MRP will not be accepted.
19. This is not a turnkey project, so interested bidder can participate for any item or full items. The quantity of the tendered items may be increased OR decreased at the time of placing supply order.

20. The following updated documents should also accompany with the NIQ:

- Trade License
- Income Tax clearance certificate
- GST Registration certificate
- Authorization must be from Original Equipment Manufacturer (OEM). The OEM certificate will be cross verified. If found faulty, the firm will be liable to be black listed by the Institute.
- Manufacturer /Proprietary Certificate.
- All the above documents are mandatory.

Sd/-
Dr. Mihir Paul, PI
Assistant Professor
Department of Physics
NERIST :: NIRJULI
ARUNACHAL PRADESH



Contd.....P/4

(1) End to End Nano/Micro fibre Fabrication system

I. Enclosure & Thermodynamic Environment Regulation

- The apparatus must consist of a hermetically sealed processing volume capable of sustaining controlled atmospheric conditions for hydrodynamic instability formations.
- The internal environment requires an active thermal regulation loop capable of maintaining a gradient from ambient parameters up to 60°C, alongside real-time hygrometric telemetry.
- To mitigate volatile organic compound accumulation, the enclosure must integrate a forced-air extraction system coupled with high-efficiency particulate arrestance (HEPA) filtration.
- The system must incorporate a high-thermal-capacity annealing module capable of achieving solvent evaporation kinetics via temperatures ranging from ambient to 300°C, adhering to standardized thermal treatment protocols.
- Visual inspection of the process volume must be facilitated by dual 10-watt solid-state photonic emitters.

II. Electrostatic Potential Gradient Modules

- The architecture requires the integration of dual independent high-tension electrostatic generators.
- Input power conditioning must accept 230–240 VAC $\pm$ 50 Hz single-phase feeds.
- Each module must deliver a variable electromotive force (EMF) continuously adjustable from 0 to 30 kV with a stability deviation not exceeding $\pm 0.05\%$.
- Current limiting capabilities must range from 0 to 400 micro-amperes.
- The control logic must feature 0.1 kV resolution and utilize microprocessor-based feedback loops for load regulation.
- Safety protocols must include an automated current overload trip threshold set at 20% beyond peak output capacity and an interlock mechanism for high-voltage cessation upon enclosure breach.

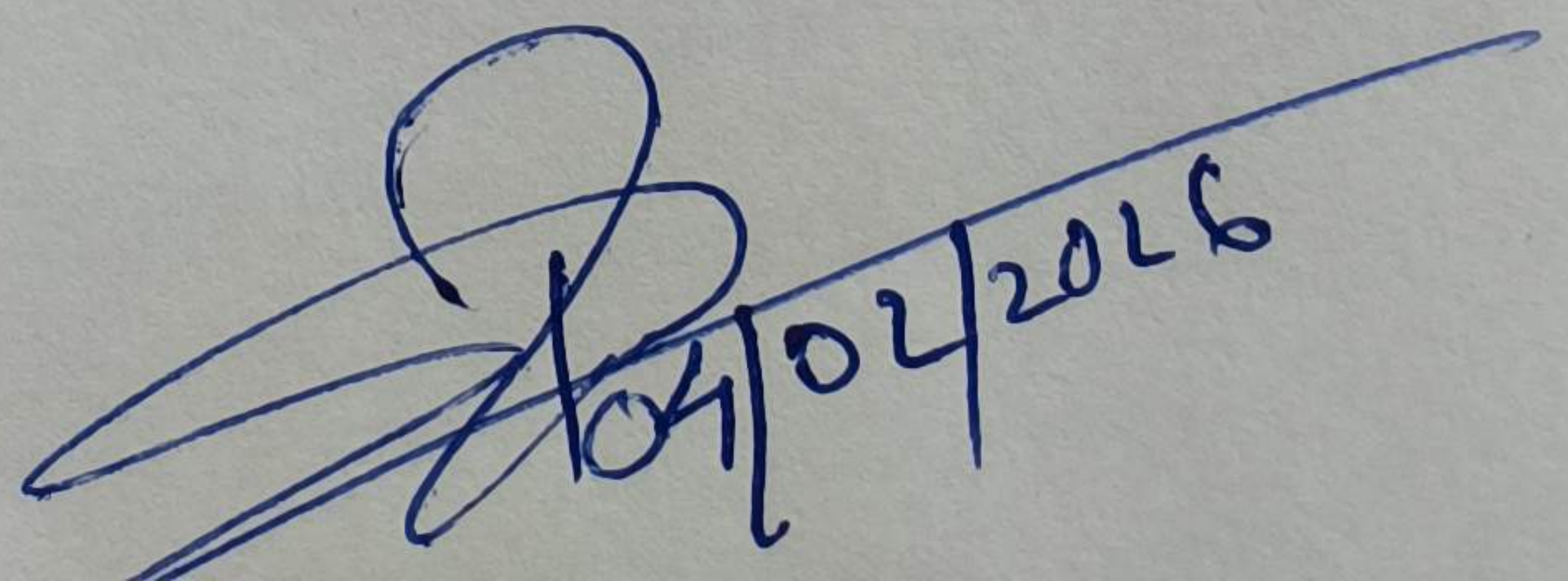
III. Hydro-Kinetic Propulsion Units

The system must utilize two independently addressable positive displacement units.

- These units must accommodate volumetric reservoirs ranging from 5 μ L to 20 mL.
- Fluid flux capabilities must cover a bandwidth of 1 μ L/min to 3 ml/min with a precision tolerance of $\pm 0.05\%$.
- The propulsion logic must allow for resolution adjustments down to 0.1 units and support bi-directional fluid transport (infusion/withdrawal).
- Operational modes must be microprocessor-governed, fully programmable for repeatable hysteresis, and capable of volume-time-flux parameterization.

IV. Target Deposition

- The deposition interface must support a rotating cylindrical geometry (Drum) with dimensions of 100 mm (D) x 220 mm (L).



- Rotational angular velocity must be variable between 200 and 5000 RPM to modulate morphological characteristics.
- The assembly must also include a static planar interface (255 mm x 150 mm) and a secondary disk-type collector (100 mm D x 10 mm L).
- Linear surface velocities at the collection interface must be tunable between 0.87 m/s and 22 m/s.
- The system must allow for liquid-phase interception and induced molecular orientation/alignment during deposition.

V. Emitter-to-Target Translational Mechanics

- A manual linear translation stage with a total displacement envelope of 300 mm is required.
- Translational velocity must be adjustable via a tri-state step function (Low/Med/High).
- The X-axis vector must support software-driven automated positioning, while the Y-axis must feature programmable transverse oscillation.
- The emitter-to-collector working distance must be dynamically adjustable during active processing.

VI. Fluidic Extrusion Interface (Emitter)

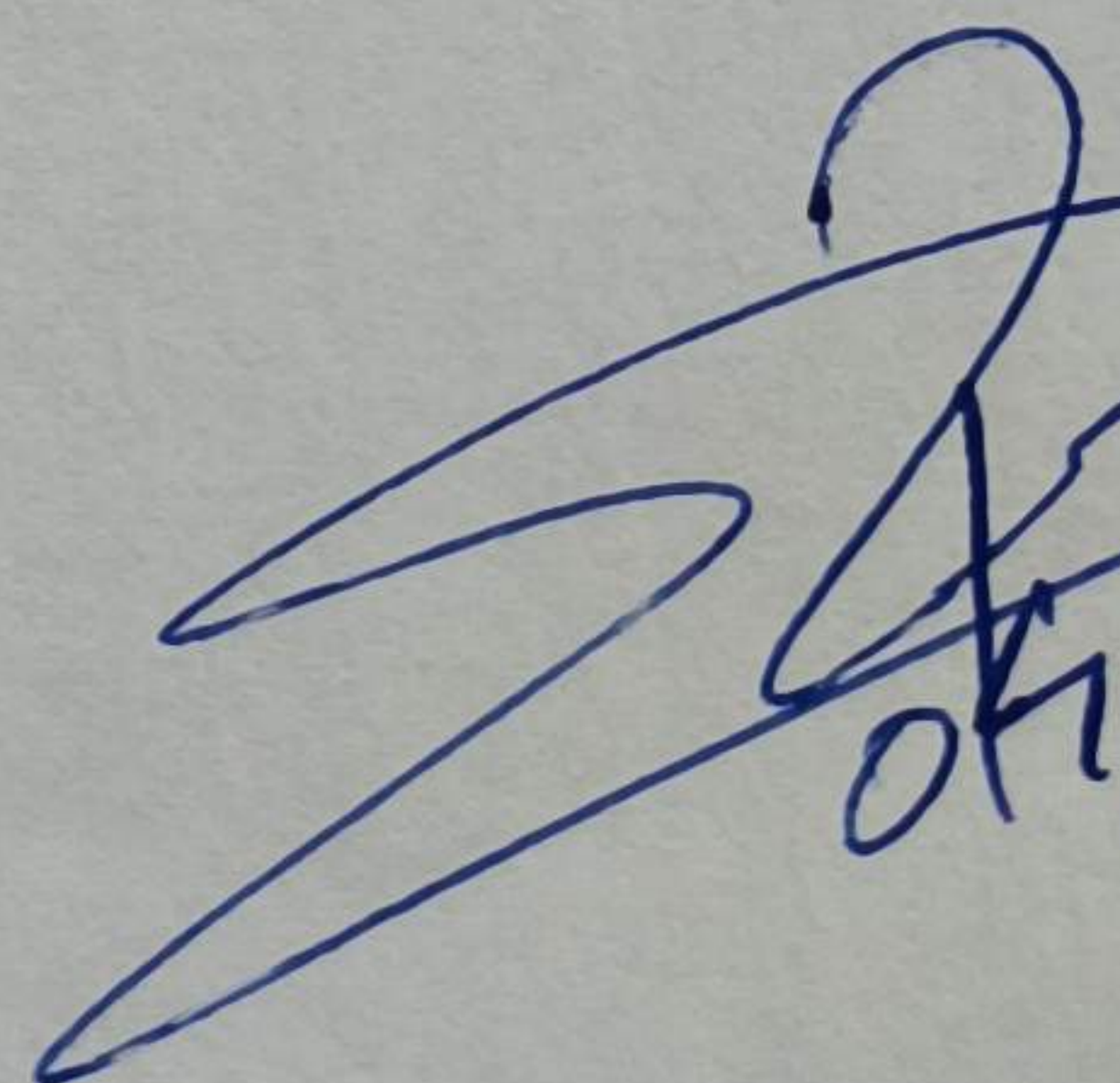
- The extrusion topology must support a dual-phase concentric nozzle configuration (co-axial) for core-shell structural fabrication.
- The system must facilitate simultaneous bi-lateral horizontal extrusion and be compatible with dual-polymeric feedstocks.
- Advanced operational modes must include wet-state extrusion capabilities compatible with polar and non-polar solvents (e.g., acetone, methanol).
- Throughput optimization should be achievable via capillary-type multi-jet arrays.

VII. Human-Machine Interface (HMI) & Ancillaries

- Centralized command must be executed via a dedicated portable computing node linked to a master control panel.
- The panel must integrate critical safety interrupts including hard-wired emergency cessation and total galvanic isolation (Mains ON/OFF).
- Mandatory peripherals include chemical-resistant transport tubing (2 meters), inert fluoropolymer sheeting, and vibration-dampening isolation substrates.

(2) Specifications of the filtration apparatus

- Designed to fit 25 to 30 mm membrane.

 04/04/2022