



UNIVERSITY DEPARTMENT OF PHYSICS PATNA UNIVERSITY

Reference No.: MRPU-SPG-PHY/Purchase/QC-01

Date: 30-09-2024

Department of Physics, Patna University desires to purchase the following Apparatus/Equipments/Consumables under the minor research project entitled with "Studies on novel isotropic (Lx) phase of the bilayers in amphiphile-water systems in the presence of strongly binding counterions" sanctioned to Dr. Santosh Prasad Gupta, Department of Physics, PU (MRPU-SPG-PHY) by Patna University with sanction letter no.: 001/R&DC/RP/PU/Section (serial number 6) dated 26-08-2023.

S. No.	Apparatus/Equipments/Consumables	Specifications	No. of unit required
Apparatus/Equipments			
1.	Phase Contrast Microscope (Inverted type)	Phase Contrast Inverted Microscopy (standard): Trinocular head, Eye piece 10X (paired), Field of View -18 mm; Lens magnification - LWD Plan phase 4X, LWD Plan phase 10X, LWD Plan phase 20X, LWD Plan phase 40X; Filter - Blue, Green, Yellow glass filters with halogen lamp 12V/20W. Camera: 14-Megapixel CMOS Image sensor; HDMI- 1080p, 60 frame output; USB 2.0 -1080p, 30 frame output.	1
2.	Gemstone Refractometer	Refractive Index Measuring Range: 1.330 - 1.810, Minimum Scale: 0.010, Measuring Accuracy: +/- 0.002, with Refractive Oil	1
3.	Digital HD Portable Microscope	Smiledrive Digital HD Microscope, with 4.3" Screen, 50-1000x Magnification, USB Connects with PC, Built-in MicroSD Card Slot (8gb) Smiledrive, Built-in rechargeable lithium-ion battery.	1
4.	Desktop computer for interfacing with phase contrast microscope	HP All-in-One 27, 13th Gen Intel Core i3-1315U, 27inch (68.6 cm) FHD, Three-Sided Micro-Edge, 8 GB DDR4, 512GB SSD, Wireless Keyboard and Mouse Combo, Windows 11 Home	1
Consumables			
5.	X-ray capillary tubes	Glass Number 50 (Glass 0500, borosilicate glass) capillaries. Thin walled - 10 micron (Hampton research). Size: 0.7mm (pack of 25 tubes)	1
6.	X-ray capillary tubes	Glass Number 50 (Glass 0500, borosilicate glass) capillaries. Thin walled - 10 micron (Hampton research). Size: 1mm (pack of 25 tubes)	1
7.	Silver nitrate	25g, Merck, Merck, CatLog no. 209139	1

Santosh 30/09/24

8.	Sodium dodecylbenzenesulfonate	25g, Merck, CatLog no. 289957	1
9.	Sodium dodecyl sulfate	100g, Merck, CatLog no. 436143	1
10.	Cetyltrimethylammonium bromide	50g, Merck, CatLog no. 52365	1
11.	Hexadecylpyridinium chloride monohydrate	25g, Merck, CatLog no. C9002	1
12.	1-Dodecylpyridinium chloride hydrate	25g, Merck, CatLog no. 278602	1
13.	Ethanol	500ml, Merck	1

For these **Apparatus/Equipments/Consumables**, we invite the quotation from the reputed firm by 22th October 2024 to supply these items within 30 days after issuing a purchase order.

Term and Conditions:

1. Price should inclusive with GST.
2. Quotation validity should be 30 days
3. Warranty of at least 2 Years
4. Payments 100% Bill Basis through Account Payee Cheque/RTGS
5. Installation will be done at customer site

*The quotation should be sent to the address "Dr. Santosh Prasad Gupta, Assistant Professor, Department of Physics, Patna University, Patna, Ashok Rajpath, pin-800005".

Best regards,

Santosh Prasad Gupta
30/09/24

Dr. Santosh Prasad Gupta
Assistant Professor, Department of Physics, PU &
Principal Investigator of the Project
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