

DBT-BUILDER -University of Lucknow Interdisciplinary Life Science Programme for Advance Research and Education

Under

**DBT- Boost to University Interdisciplinary Life science Departments for
Education and Research (DBT-BUILDER) programme**



Dr. Monisha Banerjee
(Programme Coordinator)
University of Lucknow
Lucknow – 226007

No. BT/INF/22/SP47623/2022
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 23 /08 /2022

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules ,1978 , for the implementation of the project entitled: "**DBT-BUILDER -University of Lucknow Interdisciplinary Life Science Programme for Advance Research and Education (Level II)**" for a period of 5 Year 0 Month at a total cost of Rs. **49133827** (Rupees Four Crores Ninety One Lakhs Thirty Three Thousand Eight Hundred and Twenty Seven Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "DBT-BUILDER -University of Lucknow Interdisciplinary Life Science Programme for Advance Research and Education"

2.2 Details of the Investigators:

Project Coordinator

Dr. Monisha Banerjee

PROFESSOR AND DIRECTOR, Department of Zoology
University of Lucknow, Lucknow, Uttar Pradesh, 226007

Interdisciplinary Research Groups

S. No.	Research group in emerging area	Name of Group Leader	Participating department(s) in each research group
1.	Molecular and Human Genetics Group	Prof. Monisha Banerjee	Zoology
2.	Natural Products and Steroidal Chemistry Group	Prof. Abha Bishnoi	Chemistry
3.	Environment and Sustainable Agricultural Biotechnology Group	Prof. Poornima Vajpayee	Botany

DBT-BUILDER Investigators & Project Fellows



Prof. Monisha Banerjee
Project Coordinator
(Zoology)



Prof.. Abha Bishnoi
(Co-PI, Chemistry)



Prof. Poornima Vajpayee
(Co-PI, Botany)



Dr. Subodh Kumar
Senior Project Associate
(Botany)



Dr. Shama Parveen
Senior Project Associate
(Zoology)



Pratishtha Gupta
Junior Research Fellow
(Zoology)



Banita Kumari
Junior Research Fellow
(Botany)



Prince Trivedi
Junior Research Fellow
(Chemistry)



Anmol Verma
Junior Research Fellow
(Chemistry)

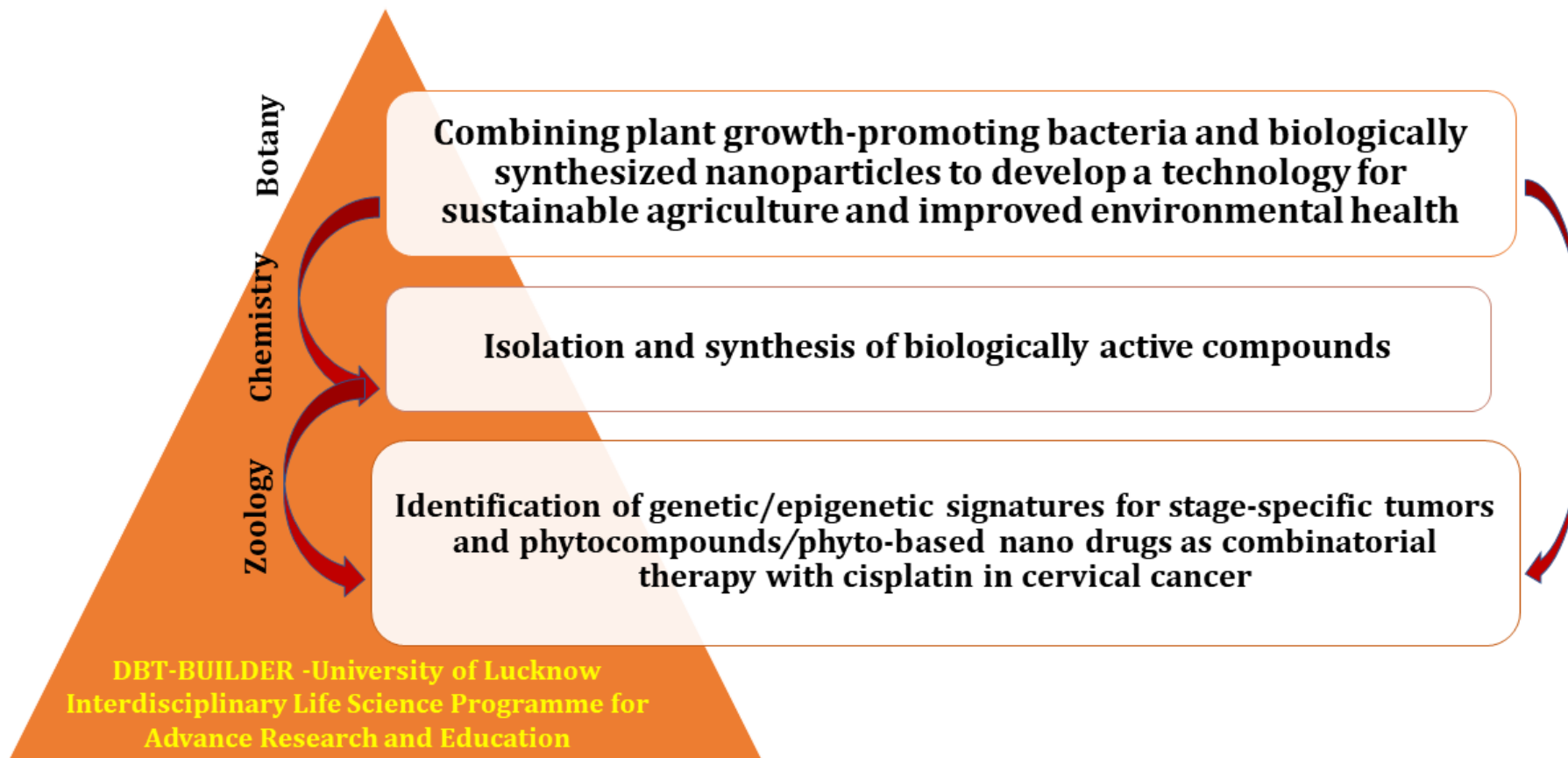


Tanu Gautam
Technical/Project Assistant
(Zoology)

Objectives

1.	To upgrade the M.Sc courses in Environmental Science and Pharmaceutical Chemistry, upgrade the B.Sc. course in Genetics & Genomics to M.Sc level. Create provision for Ph.D students and postdocs.
2.	Combining plant growth promoting bacteria and biologically synthesized nanoparticles to develop a technology for sustainable agriculture and improved environmental health.
3.	Isolation and synthesis of biologically active compounds.
4.	Identification of genetic/epigenetic signatures for stage-specific tumors and phytocompounds/phyto-based nanodrugs as combinatorial therapy with cisplatin in cervical cancer.
5.	To organize seminars, training workshops for M.Sc, Ph.D and Postdocs and encourage Interdisciplinary interactions on Research methodologies.

Interdisciplinary connect between participating departments



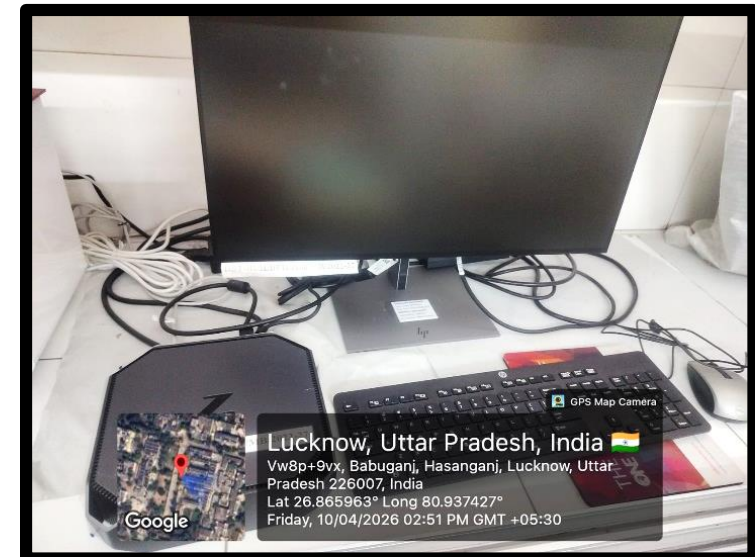
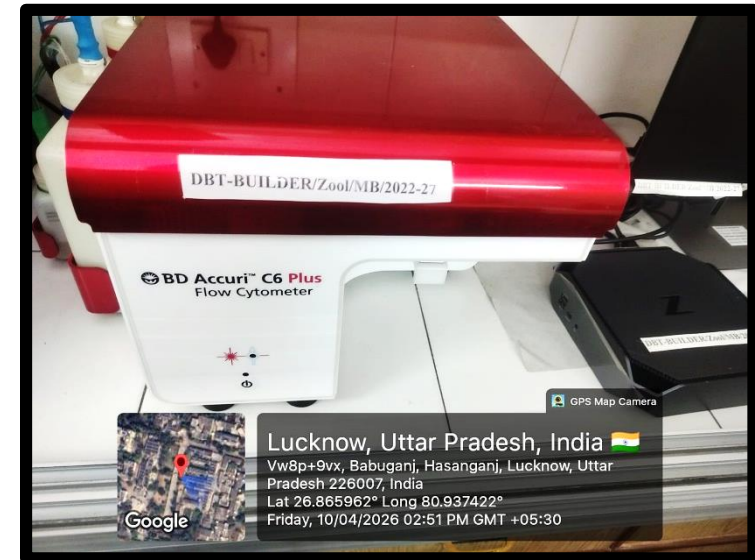
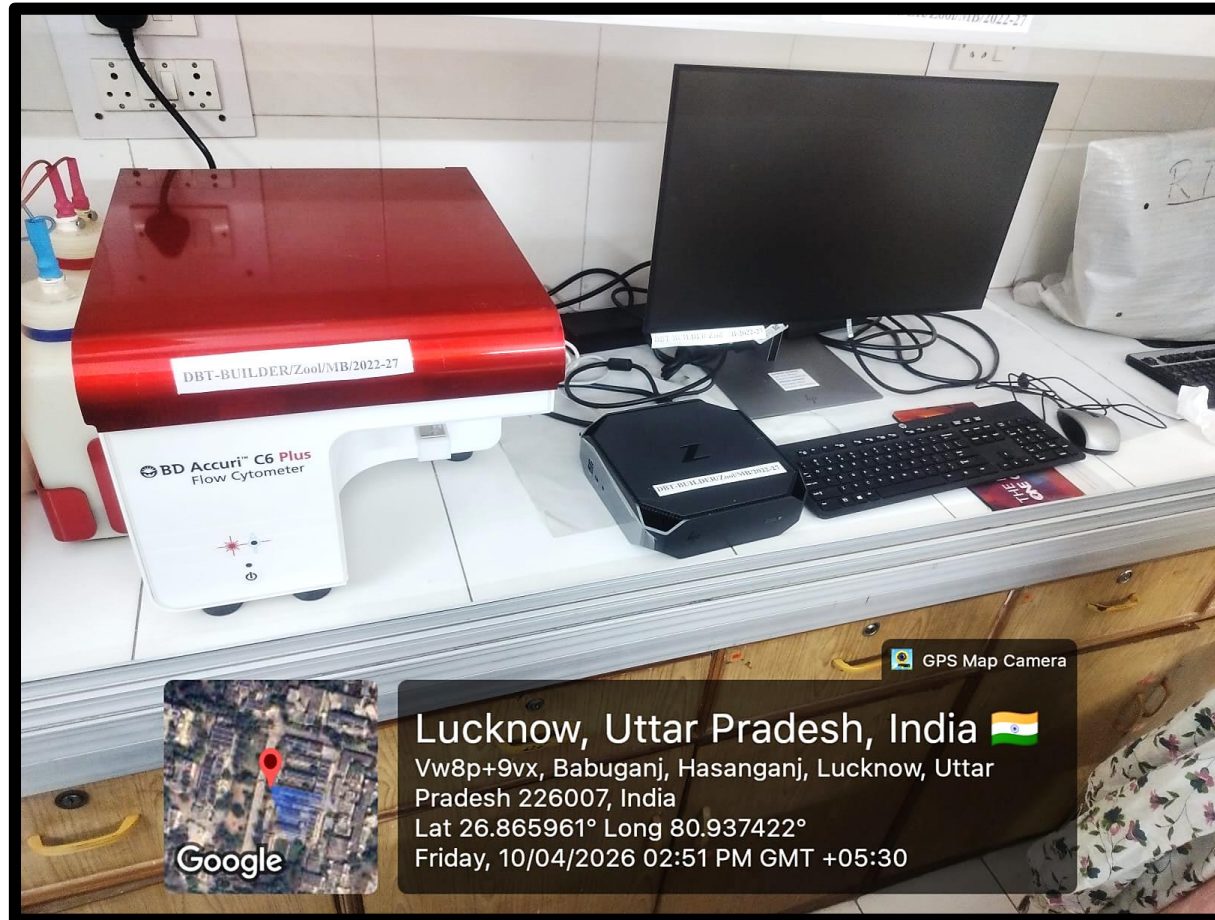
Infrastructure established

S.No.	Name of Equipment
1	High Resolution Mass Spectrometer
2	Power generator
	LC-MS partition
4	Microplate Reader
5	Flow Cytometer
6	Water Purification Plant
7	Heating Block
8	Air Conditioners
9	Refrigerators
10	Modular table

DBT-Builder Funded Equipment, Department of Zoology

1. Flow Cytometer
2. Micro-plate Reader
3. Air Conditioner
4. Refrigerator
5. Modular table

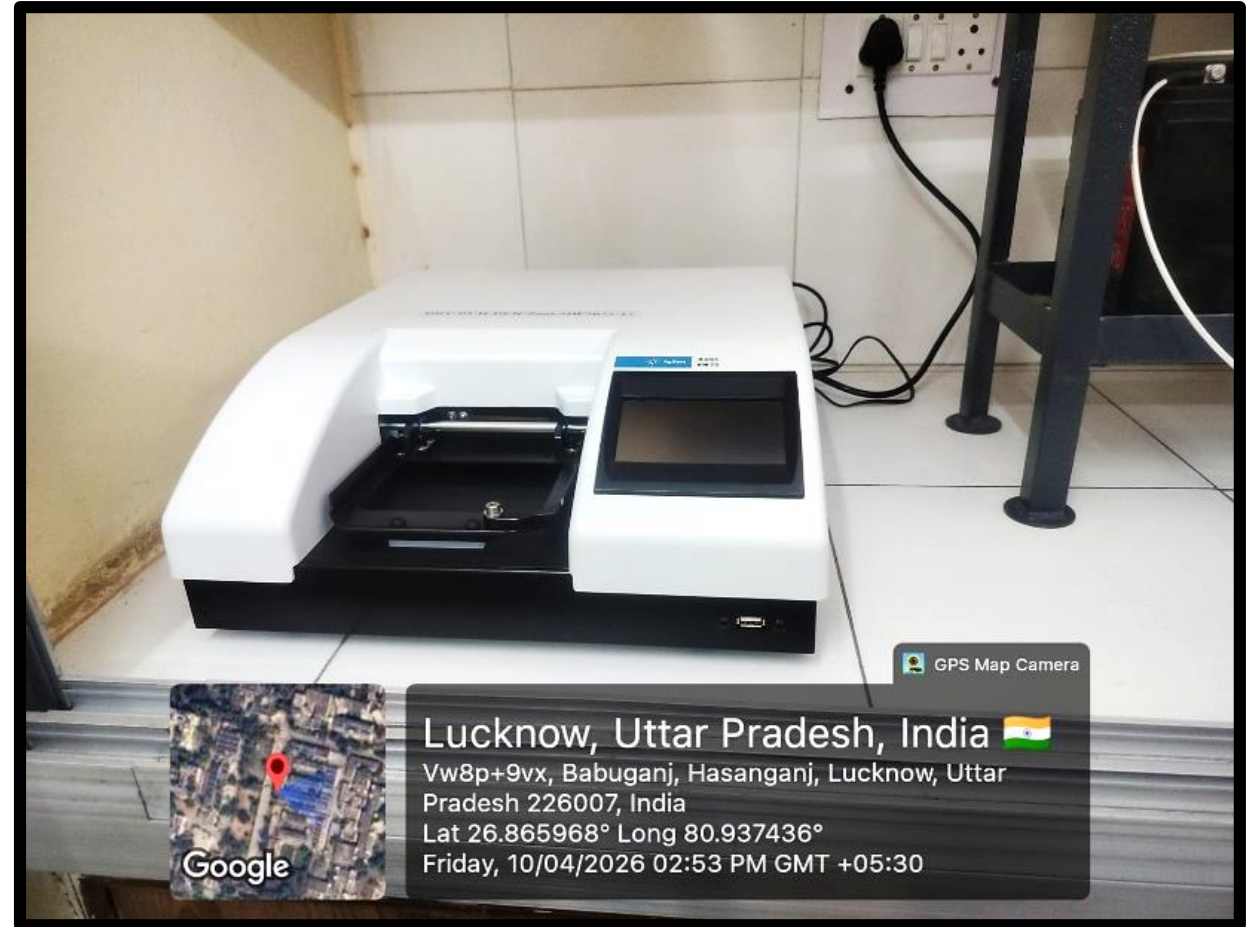
Flow Cytometer



Flow Cytometry Partition



Micro-plate Reader



Air Conditioner



Refrigerator



Modular Table



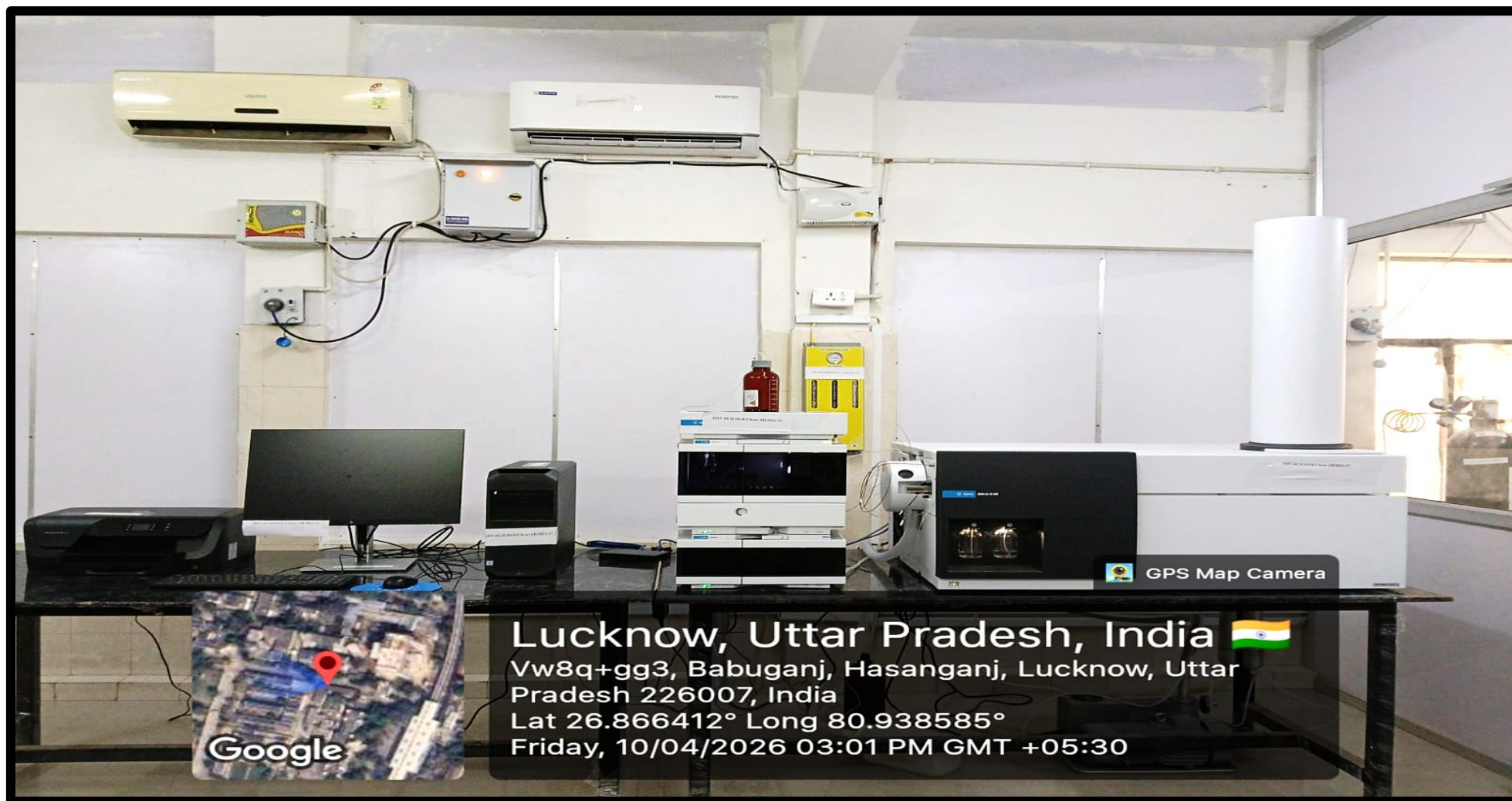
DBT-Builder Funded Equipment, Department of Chemistry

1. Partition for LC-MS
2. High-Resolution Mass Spectrometer
3. Power Generator DG set of 15 Manual Control panel

HRMS Partition



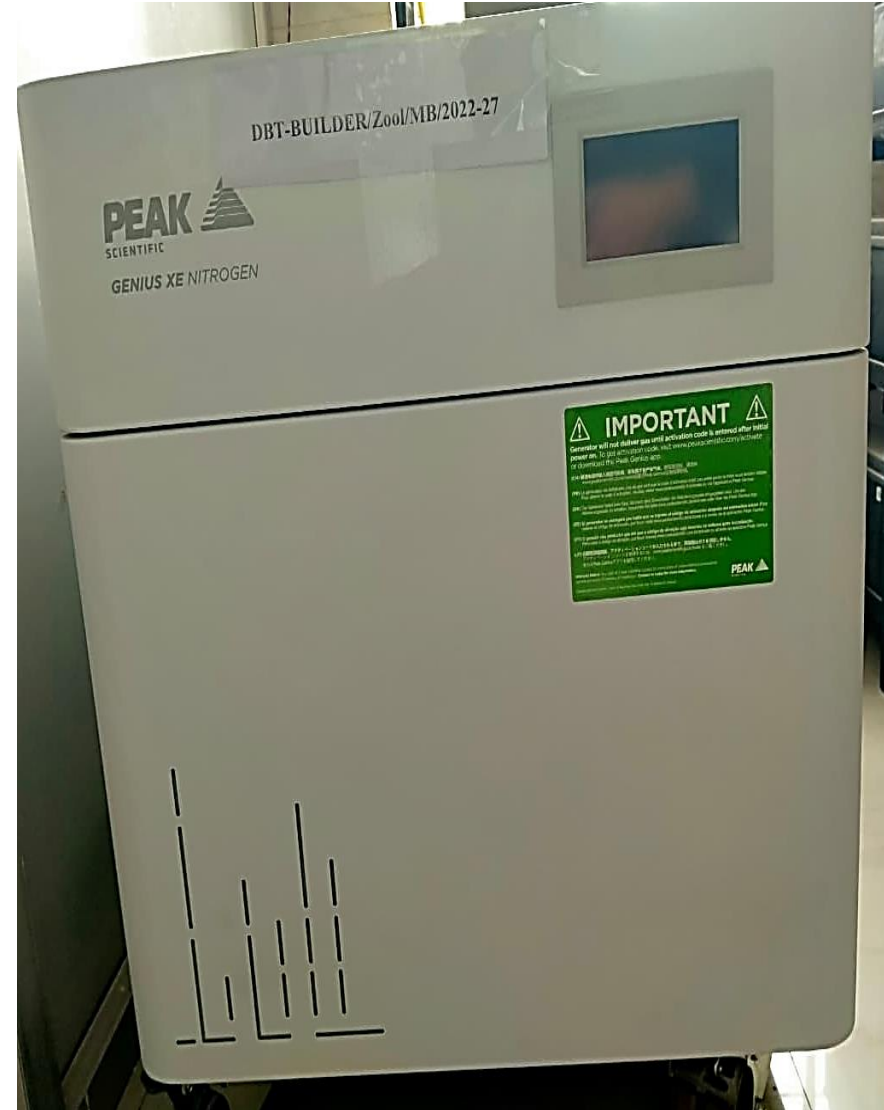
High-Resolution Mass Spectrometer (HRMS)



High-Resolution Mass Spectrometer (HRMS)



Nitrogen Cylinder and Nitrogen Generator



UPS and Battery



Desktop and Printer Setup



Power Generator DG set of 15 Manual Control panel



HRMS Demonstration



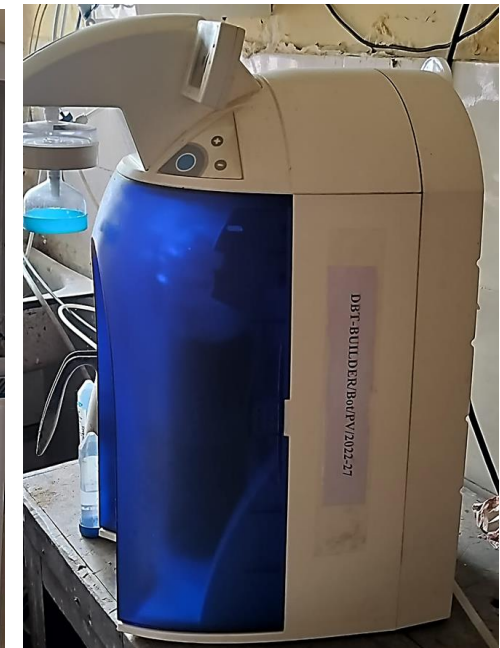
High-Resolution Mass Spectrometer Facility



DBT-Builder Funded Equipment, Department of Botany

1. Water Purification Plant
2. Heating Block
3. Air Conditioner
4. Refrigerator

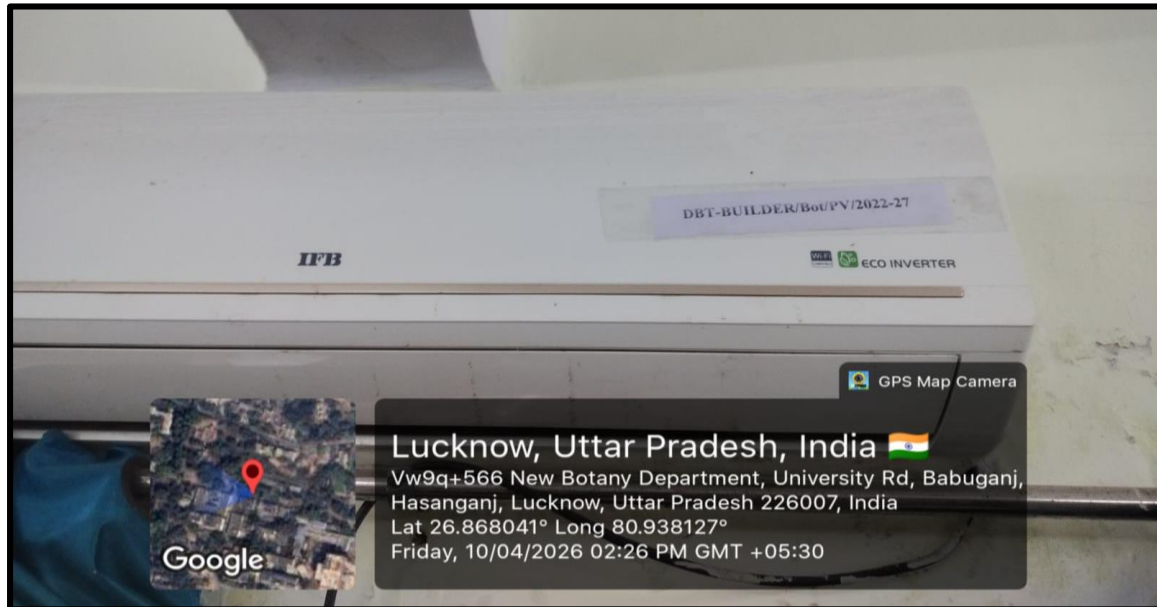
Water Purification Plant



Heating Block



Air Conditioner



Refrigerator

