



**Dr. B. Lal Institute
of Biotechnology**

An Exclusive Biotechnology Institute

The BioTech Bulletin!

BIBT's Newsletter, July 2025

Pioneering Breakthroughs, One Discovery at a Time!



***“We celebrated World Environment Day in collaboration with
Prakrit Foundation, NASI, Rajasthan Chapter, Rajasthan Education
Department and RFWTI”***

From The Principal's Desk



Dr. Aparna Datta,
Principal

As we look back on an eventful June, we are proud to share some of the incredible milestones and moments that shaped the month for us at Dr. B. Lal Institute of Biotechnology.

We were honoured to be featured in the prestigious **India Biotech Handbook 2025**, launched at the **India Pavilion** during the **BIO International Convention 2025** in **Boston, USA**.

Strengthening our commitment to rural sustainability, we signed an MoU with **Krishi Mulya Agro Pvt. Ltd.** as part of the **Jahota Village Project**. Our campus buzzed with energy as we celebrated the **Graduation Ceremony** of our graduate students, commemorated **World Environment Day** with three meaningful initiatives:

The **National Conference on Youth Action for SDGs**, Participation in the **Exhibition of Sustainable Practices**, Engagement in the **World Environment Day Celebration** at **SKIT Jaipur**, and **Sustain & Shine: Green Workspace Contest** to encourage eco-conscious workspaces. Our BSc students also benefited from an enriching **three-day hands-on workshop on instrumentation**, enhancing their practical learning experience.

Our **community outreach** efforts continued with the launch of the **After-School Early Education Program** at **Jahota Village**, alongside hosting our first reflective session on the **Bhagavad Gita**, led by Ms. Swati Garg.

A special congratulations to **Dr. Sudipti Arora** for her continued recognition—her story was featured in **The New Indian Express**, and she represented us as a distinguished panellist at the **8th edition of the 7R Conclave**, hosted by **CII**.

As we step into July, we carry forward this momentum with hope, purpose, and excitement. We look forward to sharing more impactful updates in our next edition!

BIBT Highlights

Dr. B. Lal Institute of Biotechnology has been featured in the prestigious India Biotech Handbook 2025



(Scan the code to access the magazine)



Our institute got featured in the prestigious **India Biotech Handbook 2025** a comprehensive guide to India's vibrant biotechnology sector. The handbook was launched at the **India Pavilion**, BIO International Convention 2025, held in Boston, MA, USA. The Pavilion was inaugurated by distinguished leaders of India's biotech and innovation ecosystem: **Sri. Sharath Bachegowda, Dr. Kiran Mazumdar Shaw, Dr. Jitendra Kumar, Dr. Ekroop Caur, Dr. Murali Panchapagesa Muthuswamy, and Krishnan G S.**

MoU Signing Ceremony between Dr. B. Lal Institute of Biotechnology and Krishi Mulya



The poster features the logos of Dr. B. Lal Institute of Biotechnology and Krishi Mulya. It includes a photo of the signing ceremony and text describing the partnership's goals for rural development in Rajasthan.

Dr. B. Lal Institute of Biotechnology
An Exclusive Biotechnology Institute

MoU Signing Ceremony

between

Dr. B. Lal Institute of Biotechnology

Krishi Mulya

Empowering Rural India by Nurturing Innovations & Technology in Jahota Village, Rajasthan for a Better Tomorrow

... ..

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We have signed an **MoU** with **Krishi Mulya Agro Pvt. Ltd.**, marking a major step toward sustainable rural development as a part of our Jahota Village Project. This collaboration aims to: Empower rural farmers with organic & scalable farming solutions, Establish a Tech-enabled Kisan Sewa Kendra (KSK), Improve soil health, productivity & income through bio-inputs and circular farming models, Facilitate digital literacy, market linkage, and access to government schemes, and Build model sustainable villages, starting with Jahota as our pilot location.

Graduation Ceremony celebrations at BIBT!



We celebrated the **Graduation Ceremony at** Dr. B. Lal Institute of Biotechnology. The special recognition awards went to: **Yogeshwari Chawla** – Best Student in Academics & Scientific Aptitude, **Pragya Verma** – Consistent Commitment Award, **Vanshika Sharma** – Accelerating Personality Award, **Dhvnit Mehta** – Best Student in Catalytic Role & Scientific Aptitude, **Jayant Vajpayee, Vishwas Agarwal, Drishti Pathak & Manvi Verma** – Dedicated Team Player Award, **Gunjan Bhardwaj** – Scientific Aptitude and Research Maven, and **Tushar Didvania** – All-Rounder Award.

National Conference on “Youth Action for SDGs” at the Rajasthan Forest & Wildlife Training Institute



We celebrated World Environment Day by hosting three impactful events that spotlighted youth-led sustainability, grassroots innovation, and real-world environmental solutions. A National Conference on **Youth Action for SDGs** was jointly organised by **RFWTI, Dr. B. Lal Institute of Biotechnology, Prakrit Foundation** and **NASI**, Rajasthan Chapter at **Rajasthan Forest & Wildlife Training Institute**. This conference witnessed the keynote address by Prof. Nirmal Lohiya, while a panel discussion moderated by featuring emerging youth leaders: **Ram Raika, Ashay Shrivastav, Harsh Tiwari & Savi Shekhawat** was concluded.

Exhibition of Sustainable Practices at Rajasthan International Centre (RIC), Jaipur



We also participated in the **Exhibition of Sustainable Practices at Rajasthan International Centre (RIC), Jaipur**, organised in association with the **Rajasthan State Pollution Control Board**. **Dr. Sonika Saxena** presented the Aandhi Village Zero-Waste Model, drawing praise from Hon'ble CM Shri Bhajan Lal Sharma for its grassroots impact and innovation.

As part of the **World Environment Day 2025** celebrations, we hosted the **Sustain & Shine: Green Workspace Contest** on the campus. A celebration where all our Faculty Members, Research Assistants, and Lab Assistants participated and showcased their creativity to transform the workspaces into eco-friendly zones! They were even awarded prizes where Lab 1: **Environmental Biotechnology Lab (Amanpreet Kaur, Rishita Parihar, Sakshi Patel, and Sakshi Upadhyay)** stood first, 2nd Prize went to **Anjali Pandit** and 3rd Prize was bagged by **Anushka Shukla**.



Sustain & Shine: Green Workspace Contest at BIBT

Kritika Shah delivered a session on "Climate Change and Waste Management" at SKIT Jaipur on World Environment Day 2025



World Environment Day
Celebration at **SKIT Jaipur**,
organised by **Vigyan Bharati
Malwa Prant**, where **Ms. Kritika
Shah** led a practical session on DIY
Composting & Solid Waste
Management with support from Dr
Parul Chowdhury and active
student volunteers.

Faculty and Staff Achievements



Congratulations

Dr. Sonia Kaura

Dr. B. Lal Institute of Biotechnology proudly congratulates **Dr. Sonia Kaura**, Professor & Head - Academics, on the publication of her chapter titled *"Harnessing Algae and Nanotechnology for Efficient Remediation of Environmental Pollutants"* published in the prestigious **Springer Book – Phyconanotechnology: Current Research Challenges and Prospects.**

Exclusive Updates on Industrial Biotech Training!

Yogita Sharma and Priyanka from Banasthali Vidyapeeth, Jaipur, and Saloni Sharma from JECRC University, Jaipur, along with Ritika Khandelwal from MSU Medical Biotechnology, Vadodara, received their IBT certificates from their mentors, Dr. Sonia Kaura, Dr. Manish Pareek, and Dr. Pragya Chaturvedi. They have completed their training in Medical Microbiology and Bioinformatics.



Outreach Activities (Jahota Project)

Kisan Sewa Kendra at Jahota Village



As part of our DST-funded Jahota Project, we've established a Kisan Sewa Kendra – a one-stop solution for farmers. This centre promotes sustainable farming by offering technical training, scientific soil testing, data-driven crop planning, market access, and soil health services. It also empowers farmers with knowledge of organic farming and vermi-composting as eco-friendly, cost-effective alternatives.

After-School Program at Jahota Village

**Empowering Young Minds
Through Digital Learning and
Expert Guidance**



**Session on the Bhagavad Gita,
conducted by Ms. Swati Garg,
Founder of UnboxingEQ**



We are running a Primary Education Enhancement Program (After-School Program) for rural children aged 4–10 through a digital learning platform. The initiative aims to bridge the digital divide in rural Rajasthan by providing tech-enabled education in English, Hindi, and Mathematics. Conducted by Learn2Read, the program uses interactive pedagogy—music, games, storytelling, and multimedia tools to enhance learning and provide early career guidance.

Industrial Visits & Sessions

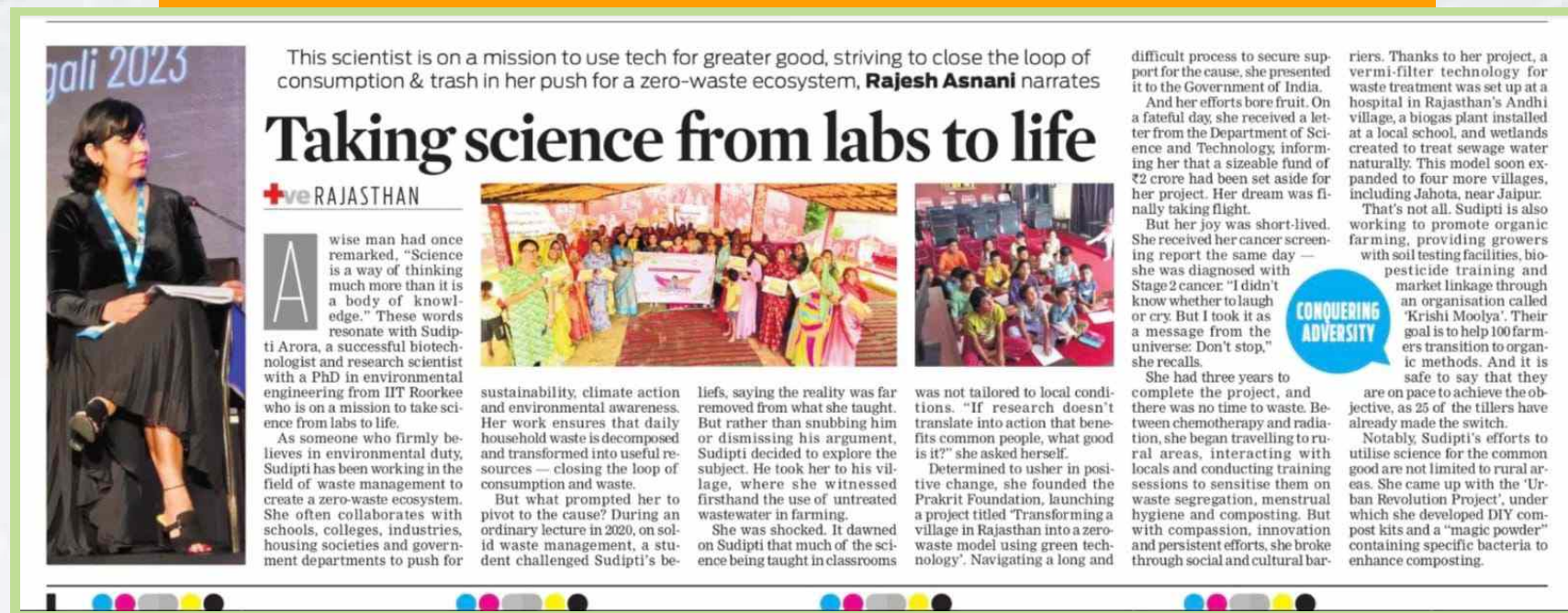
Three-Day Hands-On Workshop on Instrumentation for BSc Biotechnology Students



We successfully conducted the *Three-Day Hands-On Workshop on Instrumentation*, with the active participation of 45 students from the BSc BT Sem II. The workshop offered practical exposure to key laboratory techniques and instruments, including: Gel Electrophoresis, Polymerase Chain Reaction (PCR), Basic Laboratory Instrument, and Soxhlet Extraction Unit.

What's Happening in the Ecosystem?

Dr. Sudipti Arora's article in The New Indian Express



This scientist is on a mission to use tech for greater good, striving to close the loop of consumption & trash in her push for a zero-waste ecosystem, **Rajesh Asnani** narrates

Taking science from labs to life

RAJASTHAN

A wise man had once remarked, "Science is a way of thinking much more than it is a body of knowledge." These words resonate with Sudipti Arora, a successful biotechnologist and research scientist with a PhD in environmental engineering from IIT Roorkee who is on a mission to take science from labs to life.

As someone who firmly believes in environmental duty, Sudipti has been working in the field of waste management to create a zero-waste ecosystem. She often collaborates with schools, colleges, industries, housing societies and government departments to push for sustainability, climate action and environmental awareness. Her work ensures that daily household waste is decomposed and transformed into useful resources — closing the loop of consumption and waste.

But what prompted her to pivot to the cause? During an ordinary lecture in 2020, on solid waste management, a student challenged Sudipti's beliefs, saying the reality was far removed from what she taught. But rather than snubbing him or dismissing his argument, Sudipti decided to explore the subject. He took her to his village, where she witnessed firsthand the use of untreated wastewater in farming.

She was shocked. It dawned on Sudipti that much of the science being taught in classrooms was not tailored to local conditions. "If research doesn't translate into action that benefits common people, what good is it?" she asked herself.

Determined to usher in positive change, she founded the Prakrit Foundation, launching a project titled "Transforming a village in Rajasthan into a zero-waste model using green technology". Navigating a long and difficult process to secure support for the cause, she presented it to the Government of India.

And her efforts bore fruit. On a fateful day, she received a letter from the Department of Science and Technology, informing her that a sizeable fund of ₹2 crore had been set aside for her project. Her dream was finally taking flight.

But her joy was short-lived. She received her cancer screening report the same day — she was diagnosed with Stage 2 cancer. "I didn't know whether to laugh or cry. But I took it as a message from the universe: Don't stop," she recalls.

She had three years to complete the project, and there was no time to waste. Between chemotherapy and radiation, she began travelling to rural areas, interacting with locals and conducting training sessions to sensitise them on waste segregation, menstrual hygiene and composting. But with compassion, innovation and persistent efforts, she broke through social and cultural barriers. Thanks to her project, a vermi-filter technology for waste treatment was set up at a hospital in Rajasthan's Andhi village, a biogas plant installed at a local school, and wetlands created to treat sewage water naturally. This model soon expanded to four more villages, including Jahota, near Jaipur.

That's not all. Sudipti is also working to promote organic farming, providing growers with soil testing facilities, biopesticide training and market linkage through an organisation called 'Krishi Moolya'. Their goal is to help 100 farmers transition to organic methods. And it is safe to say that they are on pace to achieve the objective, as 25 of the tillers have already made the switch.

Notably, Sudipti's efforts to utilise science for the common good are not limited to rural areas. She came up with the 'Urban Revolution Project', under which she developed DIY compost kits and a "magic powder" containing specific bacteria to enhance composting.

CONQUERING ADVERSITY

Dr. Sudipti Arora, Research Scientist and Assistant Director, got featured in The New Indian Express recently. This feature is not just a recognition of her work — it's a celebration of the collective journey of science, sustainability, and service. From zero-waste villages to ESG advisory, from healing water to healing communities, each step has been driven by one core belief: impact begins with intention.

After-School Early Education Program at Jahota Village



जयपुर 25-06-2025

पहल • राजस्थान के डिपार्टमेंट ऑफ साइंस टेक्नोलॉजी ने की फंडिंग पहली बार आफ्टर स्कूल अर्ली एजुकेशन, सिखा रहे हैं इंग्लिश लिखना और बोलना

सिटी रिपोर्टर | जयपुर

प्राइवेट स्कूलों की तर्ज पर गवर्नमेंट स्कूलों के छात्र इंग्लिश और मैथमेटिक्स में पीछे नहीं रहें। वे भी इंग्लिश बोल सकें और मैथमेटिक्स में आने पर इससे खुद को कनेक्ट कर सकें। इसकी वजह से आफ्टर स्कूल अर्ली एजुकेशन प्रोग्राम शुरू किया गया है। जाहोता में शुरू किए गए इस प्रोग्राम के तहत स्कूली बच्चों को फोनिक्स मैथड से हिंदी, इंग्लिश, मैथमेटिक्स सिखाई जा रही है। जय मोटिंग पर जयपुर, बेंगलुरु के अलावा विदेशी टीचर्स ये क्लासेज ले रहे हैं। शहर में ऑर्गेनिक सब्जी और फ्रूट्स का ट्रेंड विकसित हो सके। शहरवासियों को बीमारियों से बचाया जा सके। इसके लिए ऑर्गेनिक फार्मिंग को बढ़ावा दिया जा रहा है। डिपार्टमेंट ऑफ साइंस टेक्नोलॉजी, राजस्थान के सहयोग से डॉ. बी लाल इंस्टीट्यूट ऑफ बायोटेक्नोलॉजी की ओर से यह प्रोग्राम चलाया जा रहा है।

विदेशी टीचर भी पढ़ा रहे हैं

प्रोजेक्ट की प्रिंसिपल इन्वेस्टीगेटर डॉ. सुदीर्घा अरोड़ा ने बताया कि आफ्टर-स्कूल अर्ली एजुकेशन प्रोग्राम के तहत 3 से 7वीं क्लास तक के स्टूडेंट्स को ट्रेनिंग दी जा रही है। स्कूल के बाद बच्चों की यह क्लास होती है। सप्ताह में यह क्लास तीन दिन लगती है। दो दिन ऑनलाइन और एक दिन ऑफलाइन। यह फोनिक्स बेस्ड लर्निंग है, जिसमें बच्चे जल्दी इंग्लिश और हिंदी लिखना सीखते हैं। मैथमेटिक्स भी सीखते हैं। प्रोजेक्ट शुरू करने से पहले हमें यह जानकारी मिली कि जाहोता के बच्चों की इंग्लिश कमजोर होती है। बारहवीं के बाद मैथमेटिक्स में आने पर वे खुद को कनेक्ट नहीं कर पाते हैं। इसलिए इन स्टूडेंट्स में इनके फंडामेंटल क्लियर किए जाते हैं। स्टूडेंट्स को तीन बैच में सिखाया जा रहा है। हर बैच में 60 स्टूडेंट होंगे। इस प्रोग्राम में जयपुर ही नहीं, बेंगलुरु और विदेशी टीचर भी पढ़ा रहे हैं। इससे बच्चों में न सिर्फ कॉन्फिडेंस डवलप होगा, बल्कि मॉडर्न एजुकेशन सिस्टम के साथ कॉम्पैटिशन कर पाएंगे। इसके अलावा जाहोता में ऑर्गेनिक फार्मिंग पर भी काम शुरू हो चुका है। इसके लिए पहले चरण में 100 किसानों को ट्रेनिंग दी जा रही है।

For the first time ever, an **After-School Early Education Program** has been launched by Dr. B. Lal Institute of Biotechnology at Jahota Village, Rajasthan, with the support of the **Department of Science & Technology**. We're teaching children not just how to read and write English, but how to speak it confidently.



Dr. Sudipti Arora at the 8th edition of the 7R Conclave, hosted by the Confederation of Indian Industry (CII)



Dr. Sudipti Arora was honoured to be a distinguished panellist at the **8th edition** of the **7R Conclave**, hosted by the **Confederation of Indian Industry (CII)**. She shared the stage with esteemed industry leaders, including **Mr. T.K. Chakraborty**, Plant Head – Bhiwadi, Saint Gobain Glass Manufacturing, and **Mr. Pankaj Kejriwal**, Executive Director, Star Cement Ltd. The event also featured insightful perspectives from the CEO, **Mr. Anand Mimani**, who spoke on the transformative potential of Green Mobility in shaping a more sustainable future of travel.



PLASTIC BAG FREE DAY

Let's Make Our Campus Plastic-Free!

Our Mission:

Say NO to single-use plastics and build a clean, green, and sustainable campus for all.



What's BANNED?

- ❌ Plastic carry bags
- ❌ Plastic packaging (thin films, containers, and cutlery)



Penalty Notice

Enough warnings have been given!

A ₹50 fine will now be strictly charged if anyone is found using plastic bags on campus. Let's take responsibility and lead by example.

Spread the word. Lead in change



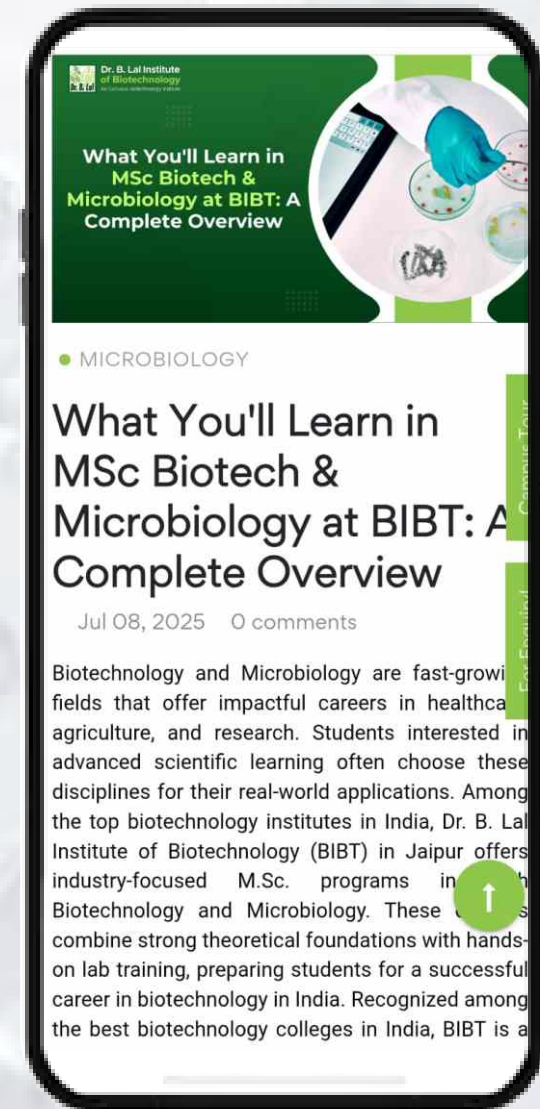
No Plastic on Campus!

Let's Walk the Talk. A small plastic bag can leave a big impact! This quick and powerful message will open your eyes to how plastic harms our planet and why we must say NO to it—especially on our campus.

Blog of the Month!

What You'll Learn in MSc Biotech & Microbiology at BIBT: A Complete Overview

Biotechnology and Microbiology are fast-growing fields that offer impactful careers in healthcare, agriculture, and research. Students interested in advanced scientific learning often choose these disciplines for their real-world applications. Among the top biotechnology institutes in India, Dr. B. Lal Institute of Biotechnology (BIBT) in Jaipur offers industry-focused M.Sc. programs in both Biotechnology and Microbiology. These courses combine strong theoretical foundations with hands-on lab training, preparing students for a successful career in biotechnology in India.



About BIBT



Rajasthan's only Exclusive Biotechnology Institute, we offer cutting-edge education, state-of-the-art research facilities, and industry-focused training that equips our students to thrive in the rapidly evolving biotech landscape. With top placements, we've built a reputation for excellence through world-class infrastructure and a campus that fosters innovation. Our network of over 2,500 alumni is making a global impact and driving industry advancements.

As the educational arm of ***Dr. B. Lal Clinical Laboratory***, we are deeply committed to empowering the next generation of scientists, researchers, and innovators. Our mission is to equip students with the knowledge and skills to ensure they lead the way in the future of biotechnology. With a focus on hands-on learning, interdisciplinary research, and strategic industry partnerships, BIBT is a catalyst for groundbreaking discoveries in healthcare, agriculture, and environmental science.

For admission-related queries, please contact:
admission@blalbiotech.com

For admission-related queries, please contact:

+91 98290 38177
www.blalbiotech.com

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