



# How we built a R&D Laboratory for a Agritech Leader?



Location	Industry	Website	Stock Symbol
Gujarat, India	Agro Chemical	dhanuka.com	NSE: Dhanuka
1,000 + Employees		\$ 200M+ Revenue	

Dhanuka Agritech Limited is one of India's leading agro-chemical Company and is listed by Forbes Magazine in the category of "200 Best under A Billion Companies in Asia Pacific". It is listed with Bombay Stock Exchange and National Stock Exchange of India. The organisation was awarded "Company of the Year (Agro Chemical Category)" by Federation of Indian Chambers of Commerce and Industry (FICCI) in 10th Biennial International Exhibition and Conference -India Chem 2018 and has bestowed with many awards and recognitions from time to time.

## The need of the innovation in agriculture industry

Innovation in India's agriculture sector is essential to address key challenges like growing population, climate change, and low productivity. As food demand rises, new technologies such as precision farming, climate-resilient crops, and modern equipment can boost efficiency and yields. Climate change brings unpredictable weather, requiring sustainable practices to conserve resources and protect the environment. Low mechanisation and outdated methods further hinder productivity, highlighting the need for affordable machinery and advanced techniques. The need of a quality agro chemicals which protects the crop and helps them grow is in high demand. Agro Chemicals are also considered a life line for farmers across the world. With Government's constant support and various incentive schemes for Agro Chemicals has improved the overall agriculture industry.



## Role of Dhanuka In Agriculture Indutry

Dhanuka takes many important initiatives to improve the incomes of the farmers through its quality & cost effective agro-chemical products. Dhanuka's workforce with more than 1,000 techno-commercial staff, supported by a strong R&D division and a robust distribution network helps Company to reach out to approximately 10 million Indian farmers with its products and services.

Dhanuka has three state of art manufacturing facilities in Rajasthan, Gujarat and J&K with well-equipped Quality Testing Facilities. The R&D center is located at Gurgaon, which is recognized by the Ministry of Science & Technology for generating scientific data and evaluation of new chemistry.

Dhanuka has Pan-India presence through its marketing offices in all major states across India. The 3 manufacturing units with 39 warehouses and network of over 8 branch offices across the Indian geography caters to 6,500 distributors & approximately 75,000 dealers.

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**We are committed towards fulfilling nation’s dream of “Doubling farmer’s income by 2022” and have taken enormous steps under our initiative “Transforming India through Agriculture”.**  
Mr. R G Agarwal    Chairman

## Moving Forward with R&D

Considering the imperative role of research and development for ensuring regular provision of quality products and services the company has been actively investing in it. The R&D cell has the necessary infrastructure to address issues of market forecast, assessment of pesticides requirement in an environment of ever changing farming practices and Agri-inputs, product identification, on-farm product evaluation, creating awareness amongst farmers on judicious use of pesticides, providing services for registration & product development on project basis, etc.

In the recent past, R&D Department has worked in partnership with leading research institutions in India, including Indian Council of Agricultural Research (ICAR), different State Agricultural Universities (SAU) and Tea Research Association. The Group has sponsored Fellowships/Awards to students of Agricultural Universities.

## Requirement of New R&D Lab

As we previously mentioned Dhanuka is heavily investing on R&D to improve existing products and make new products.

To build such a modern R&D lab, the company began its activities to find a space in order to accommodate new R&D lab. Brinda Pharma Technologies were invited to discuss the project.

Brinda Pharma Technologies has been partner of Dhanuka in building laboratories for a long time. Brinda Pharma Technologies has previously built the state of the art QC lab for Dhanuka in its Dahej Plant which is also company's largest plant till date.

## The Challenge

Dhanuka had a very big finished product warehouse in which they wanted to make a new lab. Warehouse is a totally different space compared to a lab and converting it to a fully functional R&D lab seemed a challenge for Dhanuka but the same challenge was just a regular job for Brinda Pharma Technologies.

## The Solution

Brinda Pharma Technologies started working on the project by understanding the key requirements from Dhanuka's top officials, project managers, scientists, engineers. Brinda Pharma Technologies drafted a conceptual design of the lab. Dhanuka's team was impressed by the initial concept of the lab. Soon after the initial concept the team sat wanted some minor modifications in design to suit their processes. After the discussion Brinda Pharma Shared the detailed design of the lab. The detailed design was approved by Dhanuka and the deadline was set for the project along with orders to Brinda Pharma Technologies

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**Working with Brinda Pharma Technologies was seamless. Their expertise, attention to detail, and collaborative approach ensured the R&D lab design met all functional and safety requirements, creating a cutting-edge facility.**  
Mr. R G Agarwal    Chairman

## Products & Services Offered

Brinda Pharma Technologies commenced the project by creating a conceptual laboratory design tailored to the specific needs of the R&D facility. Working closely with an architect appointed by Dhanuka, we prepared a detailed engineering drawing. Throughout the process, we maintained close collaboration with Dhanuka's team to ensure that the lab met all functional and safety requirements.

**Laboratory Furniture:** We designed customized laboratory furniture to meet the project's unique requirements, including ergonomics, safety, and efficient workflow. Furniture included cabinets, work benches, island benches, reagent racks, anti vibration table, desks for computers, lockers and cross over bench.

**Fume Hood Systems:** Both standard and walk-in fume hoods were installed, including automation systems for enhanced safety and operational efficiency.

**Safety and Storage:** PP chemical cabinets and integrated safety systems were installed to ensure secure handling and storage of chemicals, crucial for lab safety.



## Conclusion

The project was executed through close collaboration, ensuring the final lab design was not only functionally optimised but also fully compliant with regulatory standards. Today, the lab stands as a core R&D facility, effectively meeting Dhanuka's operational goals. Brinda Pharma Technologies delivered a comprehensive solution, from initial conceptual design to the fully operational laboratory.