INDUSTRIAL VISIT REPORT

Name of Industry: Hi-Rich Seeds Pvt. Ltd

Address of Industry: Hi-Rich Seeds Pvt. Ltd., Village Dhabla Rehvari, Agar Rd, Dist. Ujjain, Badarkha Babaji, Madhya Pradesh – 456006

Date: Monday, 17 February 2025 & Friday, 21 February 2025

Time: 8:00 AM – 2:00 PM

DETAILS OF THE JOURNEY

India's agriculture sector is experiencing significant growth, with foodgrain production expected to reach record levels in 2025. While challenges persist in the production of pulses and oilseeds, various government initiatives, including new missions and schemes, are focused on enhancing productivity and achieving self-sufficiency. The adoption of advanced technology and strong government support are driving this progress. India remains a global leader in agricultural production, ranking first in pulses, jute, and milk; and second in rice, wheat, sugarcane, groundnuts, fruits, and vegetables. The country also holds a prominent position in cotton and tea production, making it the second-largest global food producer by calorie content.

The SGSITS Department of Computer Science, Indore, organized an agro-industry visit to Hi-Rich Seeds Pvt. Ltd., Village - Dhabla Rehvari, Agar Rd, Dist, Ujjain, Badarkha Babaji, Madhya Pradesh 456006 on Monday, 17 February 2025 and Friday,21 February 2025. The visit aimed to provide students with an opportunity to explore and understand the implementation of technology in agriculture, covering aspects such as research, crop yield optimization, manufacturing, and packaging. It was organized for B.Tech III-year and M.Tech I-year students, with a total of 100 students and 20 faculty members participating.

The journey commenced at 8:00 AM on both the days with students and faculty departing from the college campus by bus. Upon arrival at 10:00 AM, security checks were conducted, and students were divided into two groups (Group 1 and Group 2) to ensure a structured and efficient learning experience. Considering the hot weather, the company graciously provided head caps to all participants as a thoughtful gesture.From 10:00 AM to 12:30 PM, students visited the research fields, processing plant, and laboratory, where they gained insights into crop production, seed processing, and quality control techniques.

i)Visit to Research Fields (Chickpea and wheat experiments): Students gained information and knowledge about crops, their production, processing, yielding, and crop disease. Different varieties of wheat and chickpeas were planted in the field in the crossing block. Dr. Jagdish Kumar, vice president of Hi-Rich Seeds, shared his knowledge with the students. He also mentioned that the government is focusing on the production of high-yielding crops with high protein content, i.e., Biofortified crops.

ii)Visit to Processing Plant: The processing plant was divided into different units, and each unit was dedicated to a specific function. First seeds are separated based on weight using a sensor-based machine. Then, High-Quality seeds are sent to the coloring section where seeds of different varieties are colored so that seeds can be easily differentiated. Packaged seeds are sent to the cold storage section. After this process seeds are sent to the packaging section, where packets are ready based on the required net quantity.

iii)Visit to Seed Quality Laboratory: In the seed quality laboratory samples of seeds are examined under various parameters such as physical purity, germination, genetic purity, and moisture content based on Government standards. Seeds are kept in an incubation center to check their germination probability based on size, color, and packaging in different quantities, from very small to very large amounts.

At 1:00 PM, the Managing Director, Mr. Ravindra Kakani, delivered a presentation providing further industry insights. This was followed by a networking session and lunch. After an engaging and informative experience, the group departed for college at 2:00 PM, carrying valuable knowledge about the role of technology in modern agriculture.

STUDENTS OBSERVATIONS/SUGGESTIONS

- The visit provided exposure and a comprehensive understanding of agriculture.The students got an opportunity to see various aspects related to agriculture such as research, seed processing, seed quality assessment and technological advancements.
- The visit emphasized the importance of farmers as the backbone of the country and the need to improve their livelihoods.
- Students learned about seasonal crops, seed filtration, and preprocessing, enhancing their knowledge of modern agricultural practices.
- The significance of different seed varieties and sorting techniques was demonstrated through hands-on observations.
- Discussions on protein-rich chickpeas and biofortified crops highlighted the role of nutrition in agricultural production.
- Students realized the necessity and importance of technological integration in farming, including IoT, AI, and data analytics, was explored to understand its impact on efficiency and productivity.
- Students observed various stages of agricultural infrastructure, from research and development to market selection and quality control.
- Students understood processes such as segregation in chambers, rigorous quality checks, and seed rejection based on standards ensured high-quality output.
- The method of seed separation and the role of cold storage in preserving seed quality were key takeaways.
- Women empowerment in agriculture was noted, with mechanization replacing manual labor to enhance efficiency.
- The visit sparked discussions on challenges in agriculture, including gaps in technology adoption and India's global ranking in the sector.
- Gained valuable insights into entrepreneurship opportunities in agribusiness and the potential for innovation in farming.
- The visit highlighted the importance of research in developing new seed varieties and improving agricultural productivity.
- Observing real-world agricultural processes helped bridge the gap between theoretical knowledge and practical application.
- Overall, the visit provided students with a deeper understanding of the agricultural industry and its vast potential for future advancements.

BENEFITS TO STUDENTS

- **Real-World Industry Exposure**: Students gained firsthand experience in the agriculture and seed processing industry, bridging the gap between theoretical learning and practical applications.
- **Understanding Crop Research & Biofortification:** Learning about high-yielding and biofortified crops provided insights into government initiatives for nutritional and food security.
- **Knowledge of Seed Processing Technology:** Observing sensor-based seed separation, coloring, cold storage, and packaging helped students understand modern processing techniques used in the industry.
- **Quality Testing & Standards Awareness**: Exposure to seed quality testing parameters such as germination, genetic purity, and moisture content educated students on the importance of regulatory compliance.
- **Interaction with Industry Experts:** Engaging with Dr. Jagdish Kumar (VP, Hi-Rich Seeds) and Mr. Ravindra Kakani (MD, Rich Seeds Pvt. Ltd.) allowed students to learn from experienced professionals and gain career insights.
- **Encouraging Innovation & Research:** Students were introduced to advanced agricultural practices, inspiring them to explore research opportunities in precision farming, biotechnology, and agribusiness.
- **Practical Learning in an Outdoor Environment:** The field visit provided a hands-on learning experience, making it easier for students to retain and apply knowledge in their coursework and future projects.
- **Career & Internship Opportunities:** Exposure to industrial processes and networking with professionals may open doors for internships, research collaborations, or careers in the agriculture and agritech sectors.
- **Enhanced Problem-Solving & Analytical Skills:** Observing the challenges and solutions in agriculture helped students develop a problem-solving mindset for future technological advancements in farming.
- **Teamwork & Professionalism:** Traveling, working in groups, and participating in structured visits enhanced students' communication, teamwork, and professional etiquette, preparing them for future workplace environments.

CONCLUSION

The industrial visit to Hi-Rich Seeds Pvt. Ltd., Ujjain, was an enriching experience, offering valuable exposure to agricultural research, seed processing, and quality testing. The initiative helped students understand the technological advancements in agribusiness while providing insights into potential career opportunities in the field. The visit was a successful step toward integrating technology with agriculture and motivating students to explore the possibilities of innovation in the farming sector.

NOTICE

Shri G. S. Institute of Technology & Science, Indore

Department of Computer Engineering

Notice

Date: 14-02-2025

An Industrial Visit is organized for B.Tech. III Year and M.Tech. I Year students at Hi Rich Seeds Pvt. Ltd., Agar Road, Ujjain, an Agrotech Company on 17-02-2025 and 21-02-2025. To supervise the students, following faculty and Staff members team will accompany for the visit:

On 17-02-2025:

1. Prof. D. A. Mehta
2. Prof. Urjita Thakar
3. Prof. Anuradha Purohit
4. Prof. Vandan Tewari
5. Prof. Surendra Gupta
6. Ms. Swati Mishra
7. Ms. Priya Jijnodiya
8. Mr. Chandresh Tatawat
9. Mr. Naresh Shrivastav

On 21-02-2025:

1. Prof. Rajesh Dhakad
2. Ms. Himani Mishra
3. Ms. Teena Dubey
4. Ms. Ritambhra Patidar
5. Ms. Mamta Gupta
6. Mr. Ranjit Vishwakarma
7. Ms. Jyoti Chouhan
8. Ms. Meghna Chandel
9. Ms. Ashwini Pahade
10. Ms. Poornima Jeriya
11. Mr. Sumit Manoriya
12. Mr. Prince

Head

PHOTOGRAPHS

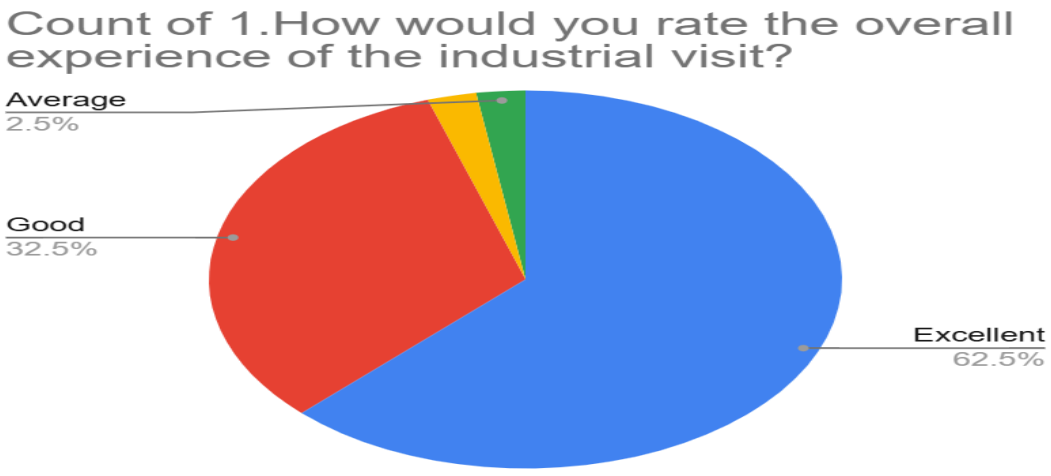

GPS Map Camera
Badarkha Babaji, Madhya Pradesh, India
7r89+f7q, Badarkha Babaji, Madhya Pradesh 456006, India
Lat 23.266643° Long 75.819934°
21/02/2025 11:05 AM GMT +05:30
Google


BROWN RUST RESISTANT WHEAT
GPS Map Camera
Badarkha Babaji, Madhya Pradesh, India
7r89+f7q, Badarkha Babaji, Madhya Pradesh 456006, India
Lat 23.266678° Long 75.819977°
21/02/2025 11:05 AM GMT +05:30
Google

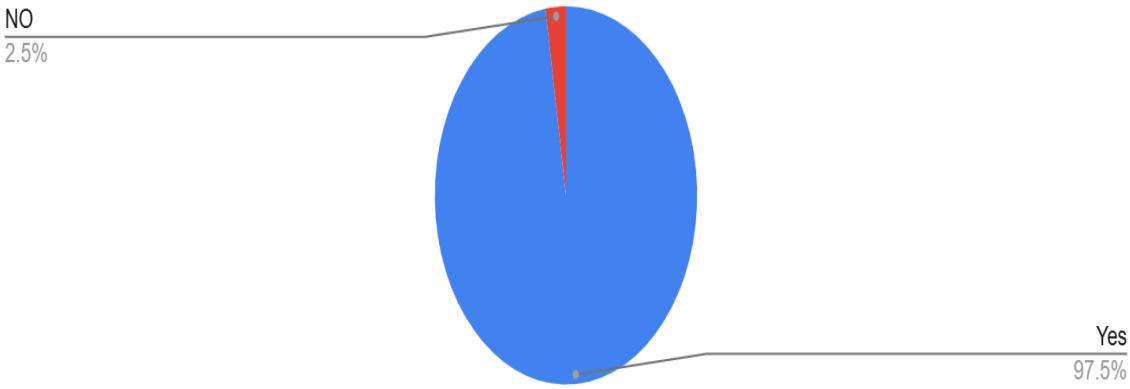

GPS Map Camera
Check In
Badarkha Babaji, Madhya Pradesh, India
7r47+2hc, Badarkha Babaji, Madhya Pradesh 456006, India
Lat 23.254382° Long 75.814081°
17/02/2025 12:20 PM GMT +05:30
Google


GPS Map Camera
Check In
बदरखा बाबाजी, मध्य प्रदेश, भारत
7r47+2hc, बदरखा बाबाजी, मध्य प्रदेश 456006, भारत
Lat 23.25514° Long 75.81365°
17/02/2025 11:57 AM GMT +05:30
Google

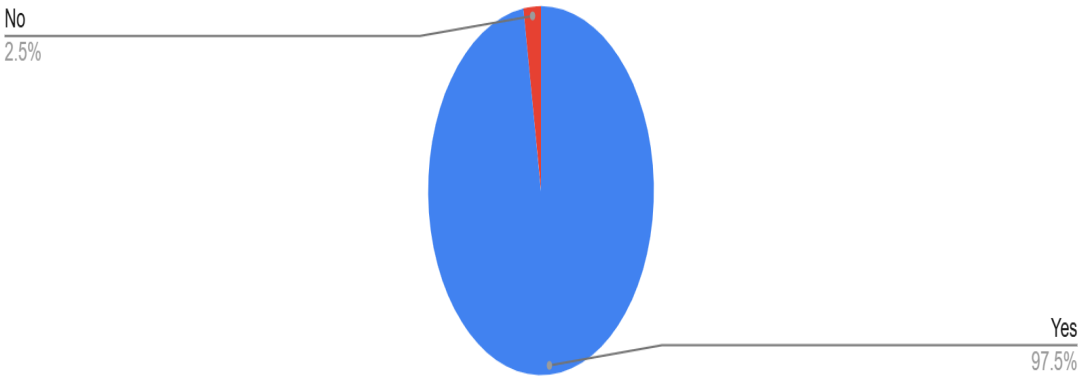
STUDENTS FEEDBACK ANALYSIS:



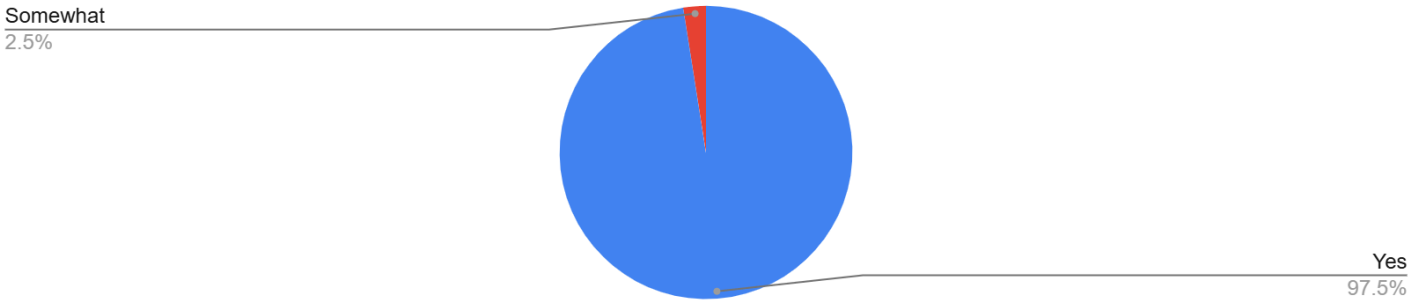
Count of 2.Was the visit well-organized?



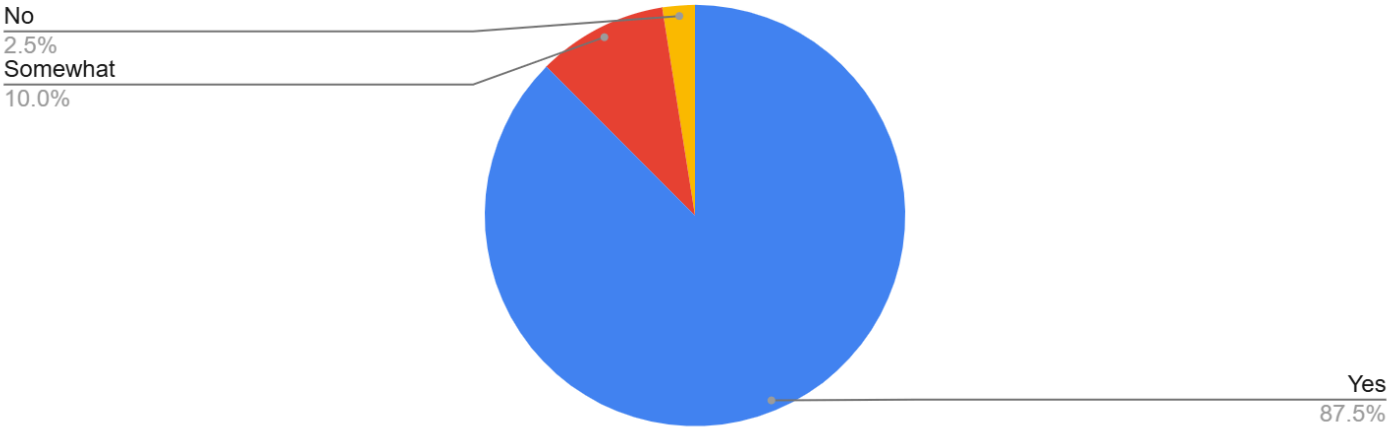
Count of 3.Did you learn something new about Agrotech innovations and technologies?



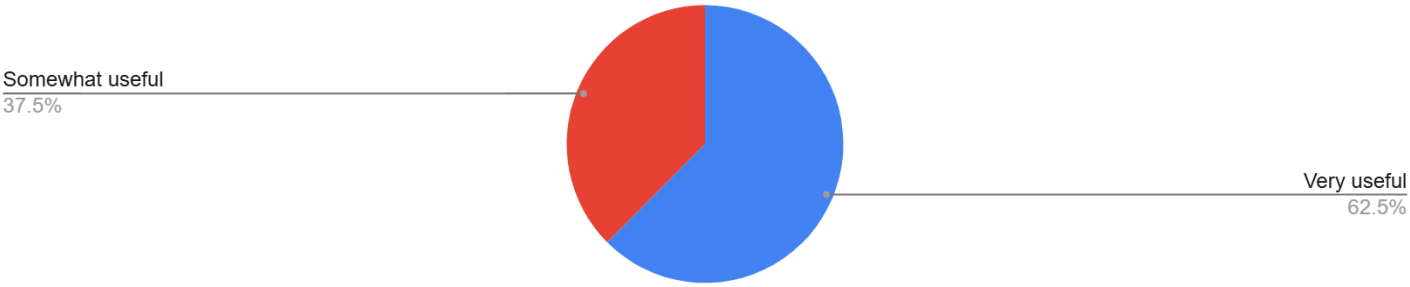
Count of 4.Was the information shared during the visit easy to understand and helpful?



Count of 5.Did the company’s research and development practices impress you?



Count of 6.How useful do you think this industrial visit was for your future career in engin…



Count of 7.Would you recommend such an industrial visit to your peers?