

Visit to Tulasi Seeds Private Limited on 02-05-2024

Third year students of KL College of Agriculture, KL deemed to be university, Vaddeswaram undergoing B.Sc. (Hons.) Agriculture Programme registered the course Principles of Seed Technology (GPBR 314). As a part of the course, we conducted visit to Tulasi Seeds Private Limited, Aminabad (Post), Phirangipuram (Mandal), Guntur (District) on 02-05-2024 (Thursday). About 200 students and 8 faculties visited the Tulasi Seeds Private Limited Company. The main aim for the visit is to emphasize the student knowledge on the Seed Production, Seed Testing, and Seed Processing. We started at 9:40 AM and reached the seed company at 10:45 AM & returned at 5:00 PM from the seed company. At first, we interacted with Dr. Subba Rayudu, Laboratory Head & Dr. Balakrishnan, Plant Breeder and explained about the purpose of visit. They interacted with the students and practically explained the identification of buds & process of emasculation in cotton. Then, we interacted with Mr. Hanumantha Rao, Plant Manager, he told us about the history of this company and its progress in present scenario. He along with some staff demonstrated the process of ginning, delinting, seed drying, seed cleaning & upgrading with the help of machinery which work based on difference in seed weight, seed size & shape, etc, seed treatment, seed packaging & till seed storage. He also emphasized on the usage & capacity of equipment that needs to be taken, storage capacity & time of seed storage for a definite quantity of seed. He stressed on the kinds of precautionary measures to be taken during harvesting & processing so that there is no admixtures which result in decrease in quality of seed.

Later, students were exposed to the biotechnological lab to gain knowledge about Seed testing procedures & equipment. Dr. Subba Rayudu explained the procedures of ELISA, Gel Electrophoresis, Bt test, Germination test, Grow out test. He showed the various equipment's & reagents used in the process. Polyhouse unit & farm including different crops like cluster bean, okra, vermicomposting, Egyptian sandal wood were observed by the students.

Outcomes of the visit:

- Students gained knowledge on various methods practiced in seed production.
- They have practically observed the usage of different cleaning & grading equipment.
- Kinds of machinery & equipment used in processing of cotton seed from ginning to storage.
- Precautions taken while seed production, processing & testing to avoid admixtures.
- Learnt various lab procedures & conditions to perform the experiments.

Vote of thanks: We faculty, KL College of Agriculture take this opportunity to sincerely thank Dr. Ramachandraprabhu, Chairman, Tulasi Seeds Private Limited, Dr. Yogesh Chandra, Managing Director, Dr. Balakrishnan, Plant Breeder, Mr. Hanumanth Rao, Plant Manager, Dr. Subba Rayudu, Laboratory Head for providing permission to the visit and

taken keen interest and patience in explaining about various procedures & practices followed in seed production, processing & seed testing & also for their timely planning & execution of the visit. We humbly thank our director Dr. P Ratna Prasad and HOD Dr. B. Balakrishna for their interest in arranging the visit, providing administrative permissions, arranging buses and lunch for the students. We wholeheartedly thank our KLEF management for providing necessary permission and transport facilities for the visit and making it grand success.



Students of B. Sc (Hons) Agriculture Y21 Batch Section 3



Separation of cotton fibres from seeds (Ginning)



Removal of fuzz from seed coat (Delinting)



Process of Cleaning & Grading by using Gravity separator & Needle Sorter



Educating our students regarding Bt test, ELISA, germination test



Seed Treatment and Packaging of Cotton Seeds