



Manufacturing units:

SOLVENT EXTRACTION PLANT

Sakthi Soyas has its Seed Preparation Plant with the State of the Art Technology of Buhler Brothers, Switzerland and Solvent Extraction / De oiled products through an innovative system named "FLASH DESOLVENTISING SYSTEMS" besides the DTDC technology of Extechnik, Germany. It has a capacity to crush 350 MT soybean seeds per day. The flash desolventising system de-solventises the spent soybean flakes in a couple of seconds thereby retaining the enzyme activities with minimal protein denature.

OIL REFINERY

The Oil Refinery features technologies of both Westfalia and Extechnik of Germany and also Ama Filters of Holland. It has a capacity to refine 60 MT per day of the solvent extracted soybean oil.

FLOUR MILLING

At Sakthi Soyas the high grade fine soya flour is produced using various kinds of milling systems depending upon the end product requirements such as Air Classifying Milling System (ACM), Hammer Mills and Roller mills. The composite milling capacity is to mill around 100 MT flour per day.

TEXTURISED SOYA PROTEIN SECTION

Sakthi Soyas has facilities to produce Texturised Soybean Protein Products of different sizes, shapes, colours and textures. These products are manufactured using High Temperature Short Time Cooking (i.e. Extrusion Technology). The facility has the ability to produce 100 MT of Texturised Soya Protein products per day.

REPORT ON INDUSTRIAL VISIT TO SAKTHI SOYA

Objectives of Industrial Visit:

Industrial visit provides the students an opportunity to learn things practically in a real-time functional environment through interaction, witnessing the working methods and clarifying the doubts from experienced workers. There is a lot of difference between the information we get from books and what we learn by seeing. Visiting different companies actually help students to build a good relationship with those companies. This will always help the student to gain a good job in future. Students will be more concerned about earning a job after having an industrial visit.

About Sakthi soya:

SAKTHI SOYAS is part of well known SAKTHI GROUP - a popular name in Southern India that has multifarious business activities including Sugar, SG Iron foundry, Industrial Alcohol, Textiles, Transport, Finance, Dairy, Coffee Estates and Soya processing. Soybean Processing Complex was set up in 1989 at Marchinaickenpalayam, Ambarampalayam Post - Pollachi, Tamilnadu, which later was merged with Sakthi Sugars Ltd. as it's 'Soya Division'. This is the only soybean processing plant in Southern India which intergrates the world's best technologies to process soybean and produces value added products. The manufacturing facilities are constructed on 70 acres of land comprising The Seed Preparation Plant (Buhler Brothers, Switzerland), Solvent Extraction Plant facilitated with Flash Desolventizer (Extechnik, Germany), Oil Refinery (Westfalia and Extechnik, Germany and Ama Filters, Holland), Flour Milling Plant and Texturized Soya Protein Plant.

The Soya products manufactured by Sakthi Soyas have wide applications in confectionery, baking, pharmaceuticals and downstream products such as protein isolate, protein concentrates, etc. Alongside having a good reputation for product quality, the products are being exported to many countries. The Texturised Soy products under the brand name "Soya Sakthi", is the first product of its kind to have the license to use the ISI quality mark from the Bureau of Indian Standards. "Soya Sakthi" is a widely acclaimed food nourisher among the south Indian populace.

On receiving the letter of permission from Sakthi Soyas limited, 100 students of I and III BSc., Chemistry with four faculty members went on an industrial visit to the factory on 25.10.2017. All students assembled at the college at 9.30 pm and left the college in a bus. The students reached the factory at 10.15am. Production engineer Mr.Selvaraj received the students at the entrance and gave a brief introduction on various steps involved in soya production process. Then they took the students in two batches around the factory from one section to the next and explained interestingly the following processes .

PACKING SYSTEM

Soya Flour (Bulk Packing) - Buhler, Switzerland make Auto weighing scale with pneumatic controls.

Soya Flour (Pouch Packing) - Samarpan make Form Fill Seal Machine has volumetric filling of soya flour to pack in pouches.

Refined Oil (Pouch Packing) - Samarpan make Form Fill Seal Machine has volumetric filling.

Refined Oil (Tin Packing) - Avery India make.

TSP (Pouch Packing) - Tetrapack Nichrome make Form Fill Seal Machine.

Quality control lab has all the facilities so that the standard and quality is maintained.



Experience from the Industrial Visit

During industrial visit the students feel very much satisfied by acquiring information of various departments & knowing many new things. The industrial visit helps how to translate theory into practical. It was a good learning experience. They are using new technologies that help us to understand about the role of advanced technology in productivity of manufacturing good.

Conclusion

We extend our heartiest thanks to GVG Paper mills pvt limited for making 12th October 2017 a day to cherish by providing an opportunity to visit such an esteemed organization. We want to thank the General Manager and engineers for guiding and sharing information about organization profile and manufacturing process at GVG Paper mills private limited.




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