

KONERU LAKSHMAIAH EDUCATIONAL FOUNDATION

INDUSTRIAL VISIT REPORT

Pearl distillery Limited

Singarayakonda, Prakasam District, Andhra Pradesh, India

<https://www.pearldistillery.com/>

An Industrial visit to **Pearl distillery Limited**-Singarayakonda, Prakasam, Andhra Pradesh, was organized by the Biotechnology Department of KLEF on Saturday, 21st of January 2019. 3 faculty also accompanied the students for that visit.

First, we visited the factory and then visited the research institute IOPR where the research is carried out. The purpose of the visit is to know the processes of extraction of oil from palm and to know how the research is carried to produce HYV of palm. The products and services offered by this industry are Industrial Water Treatment Plant, Home Water Treatment Systems, Water Softner System, Water Purifier System, RO Water Purifier Accessories. We have gone through every product shown by them in the industry.

The company manufactures are of industrial water treatment plant, home water treatment systems & water softner system and we have known the techniques of those treatments. Industrial water treatment is classified in two main ways: waste water and process water. Lamor provides solutions and services for both areas. Industrial water treatment challenges differ from municipal water treatment in various ways. The industrial sector typically consumes less water than the municipal sector, but the water may need more specialised treatment and the challenges are much more demanding.



In the above picture scientists explained us how to operate the whole industrial water treatment where its is so complicated to handle by every individual.

A water softener is a whole-house filtration system that removes hardness-causing calcium and magnesium minerals from your water through a process called ion exchange. A water softener addresses one of the most prevalent and devastating water problems: hard water. Hard water wreaks havoc on the modern home. Scale builds up in our pipes, clogging them and decreasing water pressure. Scale dramatically shortens the lifespan of appliances like dishwashers, coffee makers and ice machines. Hard water destroys hot water appliances. The higher the temperature of the water, the more calcium and magnesium will solidify and harden into solid deposits inside your hot water heater. If we live in hard water territory, it can sound like your water heater is popping popcorn. This is because scale has attached itself to the heating element. As the temperature of the heater rises and the tank expands, the calcified rock deposits crusted on the heating elements start cracking and stretching. Hard water-induced scale is the culprit of that popcorn popping sound.