

REPROT ON INDUSTRIAL VISIT

DATE :21-09-2013

K.Sai Prasanna

Asst Prof S& H,

Rise Krishna Sai Prakasam Group of Institutions,

Ongole.

Mr.U.Mohanchand

H.O.D ,S&H

Rise Krishna Sai Prakasam Group of Institutions,

Ongole.

Dear sir,

Sub: Report on one day Industrial visit.

We receive the letter of permission from MSR Liquor factory ,Singarayakonda,100 students with 7 faculty members i.e., U.MohanChand, K.Sai Prasanna, ,N.V Siva Rao,Sd.Thaseen,Anuja,B.Maheedar Reddy,Vijaya Bhaskar went to industrial visit to the factory on 21-09-2013.

We are assemble at the college at 10 A.M and left the college by bus we reached the factory at 11.30 A.M. The chemical engineer, incharge of R&D received us at the entrance and gave a brief information about the factory.And he allotted us one session to observe the factory. And explain the process involved in the preparation of Alcohol .The workers are doing their work concentratedly . Everyone has wear safety clothes.

He showed which type of raw materials are used they are Sugarcane, starch materials,molasis.In this industry the main alcoholproduct is from molasis. HE explained molasis is syrup left after the separation of cain sugar from concentrated juice . It is dark coloured liquid it contains about30% un chrystalisable sucrose and about 32% over invert

sugar this mixture is diluted with water until a concentrated of 8 to 10% of sugar is obtained and add dilute H_2SO_4 to adjusted the pH above 4 to 4.5 it is safe for furment's growth. And a small quantity of Ammonium Sulphate is added. Which act as a fod of furment cell i.e. Yaest cell. The dilute content is taken in big fermentation tag and yeast is added the mixture is allowed to stand for two days maintain the temperature at 30 degree centigrade then fermentation starts and engyme invertise converts the sucrose into, Glucose and fructose which are them converted into Ethanol by enzyme zymase.

The fermented liquor called wash. The wash is subjected to fractional distillation to get rectified spirit .It contains 95% of alcohol that can be stored in a big tank and the waste material is used for generation of electrical energy.

Finally the alcohol is collected and filled in the bottles and labeled. Now they are ready for transporting. The students understood each and every step involved in the preparation. And they feel very happy with this trip.

Thanking You

