



## **Report**

On receiving the letter of permission from GVG paper mills limited, Vayallur, 110 students of II and III BSc., Chemistry with four faculty members went on an industrial visit to the factory on 12.10.2017. All students assembled at the college at 1.30 pm and left the college in a bus. The students reached the factory at 2.00 pm. Production engineer Mr. C.T.Srinivasan and shift in-charge Mr. Gopala Krishnan of production Unit I, received the students at the entrance and gave a brief introduction on various steps involved in paper production process. Then they took the students in four batches around the factory from one section to the next and explained interestingly the following processes involved in the making of news print paper.

### **Procurement of raw materials:**

Main raw material for the company is waste paper which is purchased through suppliers and used after fine checking and screening.

### **Manufacturing process:**

It involves four stages

#### **A) Pulping:**

Waste paper after cutting and dusting feed into the pulpers for pulping.

#### **B) Preparatory treatment of the stock**

Pulp as it is not fit for being converted into paper, it undergo some preparatory treatment depending on the end product. Before going to paper machine the stock must be reduced into fixed thickness with uniform properties in a uniform speed. The treatment is carried out in a apparatus called refiner and sizing agent like alum, dyes, loading materials are added in the process to develop its strength. The main flow of pulp which is freed from tailings in the vibrating screen and fine pulp sieved out from the tailings are put together and send to the centricleners which work efficiently in removing fine dust.

#### **C) Paper making**

Prior to going in to the paper making machine the stock has gone through necessary treatmnts, is diluted in the mixing box and down to the required consistency with the use of back water generated in the paper making process.

The paper making machine performs its function in this way :- In the pulp stock which goes over travelling wire the fiber is separated from water and sheets of paper is formed. The wet sheet is pressed dried and smoothened by going through several sets of roll machines. To get the Paper, the sheet is then passed through dryer which imparts glaze to the paper. Paper is finally wound up by means of pop-reel machines. The out put of a paper machine is determined by the trimmed width of paper, the speed of machine and grammage of paper.



#### **D) Finishing of paper :**

Paper and board intended for sale in reels and cut sheets is rewound & cut to certain fixed measurements. Defective paper and board sheets are removed. The rejected produce is returned to pulping section and mixed into the main flow of pulp stocks.

#### **Dispatches**

Reels so prepared, is then wrapped by plastic cloth and clipped with the help of plastic strips. Supervisor on duty mark a serial number, size and grammage on each reel for the purpose of identification. Wrapped reels are then weighted through electronic weighing scale. Weight as shown on the display is written in the reel by the supervisor. Supervisor also maintained a register in which he entered weight of each reel.

The students left the premises at 5.00 pm. It was informative, interesting and a successful visit.

#### **Experience from the Industrial Visit**

‘See & know’ is better motto than ‘read & learn’.

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 12<sup>th</sup> 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.