

INDUSTRIAL TRIP

Manufacturing unit of PARLE Raipur(C.G.)

SOS of Electronics and Photonics conducted a one day educational industrial trip to manufacturing unit of Parle G biscuit in Mowa Raipur on 13-02-2019. This Trip is fully fun filled and students also got the opportunity to know something different from their field.

PARLE: - Parle is a famous biscuit brand of India. It has about more than 10 varieties of biscuit, candies and snacks. Parle was started in India by Mr Mohan Lal Dayal in 1929 at Parle in Mumbai. Parle has more than 125 units all over India. In Raipur unit there are more than 200 workers for daily work and the production is over 70 ton per day. The manager of the Raipur unit is Mr Naveen Singh. In Raipur only Parle-G biscuit's production is taken place.

The manufacturing unit has mainly four parts which are:-

1. Mixing and Moulding unit
2. Baking and cooking unit
3. Packing and storing unit
4. Testing and printing unit

1. **Mixing and Moulding Unit:** - In this unit mixing of raw materials such as milk, wheat powder, glucose and etc. are performed. Glucose is made by the unit itself from sugar and water. After mixing of the raw materials it is moulded and printed. The printer has dye of the size and name on it. which printed about 200 biscuit at a time. The printer is rotating Machine and controlled manually. In this section we also know that NH_3 is also mixed in biscuit to make it crispy.

2. **Baking and Cooking Unit:** - After moulding and printing process biscuits pass from baking and cooking unit. Baking and cooking is performed by an Oven. The length of the oven is 252 feet. The temperature of the oven is from $200^{\circ}C$ - $300^{\circ}C$ at the beginning of cooking temperature is $200^{\circ}C$ and gradually increases to 300 and then decreases also. The maximum temperature of oven is $300^{\circ}C$. For baking and cooking purpose propane gas is used.

3. **Packing and Storing Unit:** - In this unit first the biscuits are cooled by passing it from 2-4 containers. In summer season 4 containers are need to cool down the biscuits but in normal days 2 containers are sufficient for cooling. After cooling there is assorting of biscuit which is performed first by man

power and then by machine also. There is a metal detector which detects any size of metal particle and stops the whole process. After assorting, packing of these biscuits are performed by the help of machines and workers. After the packing all boxes are stored in storing section. In storing section every day's production is placed separately.

4. **Testing and Printing Unit**: - Laboratory is the unit where testing of raw material and printing of packet rapper is performed. Testing is performed before mixing of raw materials. After production testing is again performed to check that there are no harmful particles, taste is good, shape and size is correct. in lab printing of rapper is done by machines. Quality of rapper plastic is also checked in lab.



After visiting manufacturing unit we went to auditorium where two video clips are shown to us. In one clip all the processes involved in manufacturing of different varieties of Parle biscuit and candies. Other clip is based on clean India motive. The theme was that our elders always taught us to clean our surroundings but they their selves forgot about it.

Then Mr Naveen Singh manager of the unit taught us some important lessons for life and to be success. He said that adaptability is the key thing to be success in industries and life also.

After this he also distributed mango bites, melody, kismi candies with a packet of PARLE-G biscuit between us and we all enjoyed it. Taste of fresh and hot biscuit is awesome, candies are tasty we all loved these candies from our childhood. At last we all rore Parle-G, G means genius.



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Note: - we are instructed to not take photos and videos inside the unit.