

**Industrial visit report**  
**03/09/2019**  
**Amul Chocolate Unit-Food Complex**  
**Mogar**

**In time: 10:30 a.m.**

**Out time: 12:30 p.m.**

It was a pleasant morning for the students of the final year, Mechatronics department. The department had organised an industrial visit to the “**Amul Chocolate Unit-Food Complex**”, situated at Mogar, Anand.

Prime Minister Shri. Narendra Modi inaugurated a new chocolate plant of the Gujarat Co-operative Milk Marketing Federation (GCMMF), owner of the dairy giant Amul in Gujarat.

On reaching the plant we were welcomed graciously by their delegates. Soon, we were directed to their chocolate manufacturing unit. Students were divided into two batches and learning started from there onwards. The pleasant and salubrious aroma of chocolates followed us throughout the visit. Firstly, we were preliminary briefing about the entire plant. The plant comprised of 5 core departments: Amul chocolate plant, Bread spread plant, ready to use Therapeutic food, Malted milk products and finally Bakery department.

After this, we proceeded towards the main manufacturing unit. At the beginning we observed the range of ingredients involved in the making of chocolate. Moving ahead, we went through the processing of cocoa nibs into fine liquid form. This liquid was further processed and other ingredients were added depending upon the flavour requirement followed by the churning process which was by ball mills. The made batch was later stored in CONCH where it was heated at 65 °C temperature. With the help of pipes this mixture was transferred to rotary depositors to inject mixture into mould plates to produce bars of chocolate. The moulds are then stored at 7 °C to 8 °C temperature to let it solidify. Then with the help of twisting and hammering equipment the bars were removed from the mould plates and were ready for packaging. They moved on conveyors to the packaging department where robotic arms are being utilised. The entire plant was completely automated. Being the only fully automatic chocolate

manufacturing plant in India it was worth a visit for the students. At last the visit was ended with delicious chocolates given by representative as a token of love and some group photographs. Surely the visit was fruitful in terms of knowledge and we are thankful to “AMUL” that they have allowed us to visit their Unit.