



G H Patel College of Engineering & Technology (A Constituent College of CVM University) Vallabh Vidyanagar

REPORT ON VISIT TO “Dharti RMC Plant, Sunav”

Department of Civil Engineering, GCET had organized one day Educational visit to “**Dharti RMC Plant, Sunav.**” on 15th November 2022. 21 students, 2 faculty members and 1 lab assistant had visited the Ready-Mix Concrete Plant located at Sunav.

About RMC Plant:

The visit commenced at 1:30 pm with a brief discussion about the materials and basic concept of concrete which the students learn in theory subject. The manager had explained the students that to become a successful at least they have to work on site for few years to learn the practical things and fulfil industries requirements.

The students were taken to the Batching Plant. There was a mixing plant with an output of compacted concrete with a batch size of 750m³. The plant manufactures concrete grade from M15 grade to M50 grade. The concrete with higher grade is used in the substructure. The plant was automatic plant which measure materials by weigh batching. The plant was with the two silos for fly ash and cement. Both the silos had a capacity of 100 tones. The materials were mixed through weight batching with a mixing time of 15 seconds. The water used for mixing was kept at 4 degrees centigrade to control the heat of hydration. To keep water cool they have installed water chilling plant on site only.

The students had also visited bitumen plant which is located on same site. The bitumen plant was having 4 hoppers with capacity to produce 1000 tone bitumen in one day. Sir had explained the carefulness required for managing the plant. The different sizes of dust were mixed up with the chemical which gave heat to the material and after that material was mixed with hot damar and proper mixing of damar and dust make the bitumen.

Overall, the students learned many new things, new concepts and they were able to get a practical idea of what happens at a construction site. The visit was very helpful for the students in all aspects.

Aim of the visit:

The main aim of visit was to make students aware and to teach them about the mix design and concrete manufacturing process.

