



**G H Patel College of Engineering & Technology, V. V Nagar**

**Department of Civil Engineering**

**Report on**

**Industrial Visit to Ready Mix Concrete Plant**

An industrial visit was organized for 2<sup>nd</sup> year Civil Engineering Students of GCET to Dharti Ready Mix Concrete Plant near Sunav on 9<sup>th</sup> February 2018.

57 students and 3 faculties had accompanied the industrial visit.

**AIM:**

The main objective to know the advantages of Ready Mix Concrete and disadvantages of Site mixed concrete and steps involved in preparing the ready mix concrete.

**About the Visit:**

As Ready Mix Concrete are widely using in bigger and medium project now a days. The visit should be very useful to know what are the steps to be taken to check the concrete in ready Mix, what is required to be specified, what is the information required in supplying the concrete.

During the Visit First, he explained us regarding the different size of aggregates used in plant, how they carry to plant, how to mix it by weight ,Concrete Mix Plant Capacity, Testing Unit of Concrete, Compressive Strength of Concrete, Transit Mixer Design parameters, etc.

He also shared some Knowledge about their Experience regarding to Concrete Mix. Then, He give some Technical Knowledge about Plant:

1. The plant produces 30 cmt concrete per hour.
2. Plant consists of automatic pressure gauge balance through which different size of aggregates is weight and mixed in the pan as per mix design.
3. Cement and fly ash are mixed in the pan through silos.
4. Weight batching process is used in preparing mix design.
5. Cement silo having capacity of 100 ton and Fly ash silo have 60 ton capacity in which they filled in loose form with vacuum pump
6. Admixture of Sikka Company is used if cement in one batch is more than 300 kg. The prepared concrete is taken into the truck having capacity of 7.5 cmt.

We also visited on-going construction of culverts where RMC is placed into formwork from a height of 5m.

From this visit, students understand the importance of water to cement ratio, compaction, segregation and bleeding when concrete falls from the certain height.

With this kind of industrial visit, we gained more knowledge on Concrete Technology application aside from the theoretical aspect learned from the classrooms and laboratory.