



**Sandip Foundation's
Sandip Institute of Technology & Research Centre, Nashik
Department Of Civil Engineering
Academic Year 2018-19
Report on Site Visit**

- 1. Event Title:- Visit to RMC Plant at Ambad , Nashik**
- 2. Event Date:- 23rd August 2018**
- 3. Event Conduction Duration:- 10.30 am to 2.30 pm**
- 4. Event Venue:- RMC (India) Division , Plot No:- B-7, Ambad MIDC, Opp. Gabriel Company, PIN:- 422010, Nashik.**
- 5. Event Resource Person:- Er. Pooja Joshi. (Site Engineer)**
- 6. Name of Event Coordinator :- Prof. Anandrao S Jadhav**
- 7. Event Objective :-**
 - 1)To study the various units and working of R.M.C Plant
 - 2)To know properties of various ingredients of concrete and concept of mix design.

- 8. Event Summary : -** The students of BE Civil from SITRC visited RMC plant. The students learnt the following aspects:
 - 1.Working procedure of RMC plant
 2. Advantages and Disadvantages of RMC plant

Ready-mix concrete (RMC) is a ready-to-use material, with predetermined mixture of cement, sand, aggregates and water. RMC is a type of concrete manufactured in a factory according to a set recipe or as per specifications of the customer, at a centrally located batching plant. It is delivered to a worksite, often in truck mixers capable of mixing the ingredients of the concrete en route or just before delivery of the batch. This results in a precise mixture, allowing specialty concrete mixtures to be developed and implemented on construction sites. The second option available is to mix the concrete at the batching plant and deliver the mixed concrete to the site in an agitator truck, which keeps the mixed concrete in correct form. In the case of the centrally mixed type, the drum carrying the concrete revolves slowly so as to prevent the mixed concrete from "segregation" and prevent its stiffening due to initial set.

By using R.M.C we can save the time and money required for the labours. In following places ready mix concrete can be used:-

- 1.Major concreting projects like dams, roads, bridges, tunnels, canals etc.
- 2.For concreting in congested areas where storage of materials is not possible.
- 3.Sites where intensity of traffic makes problems.
- 4.When supervisor and labour staff is less.
- 5.To reduce the time required for construction etc.
6. Huge industrial and residential projects.

9. Event Outcomes:-

- 1)Understand chemistry, properties, and classification of cement, fly ash, aggregates and admixtures, and hydration of cement in concrete.
- 2)After visiting the site , students are able to understand the details & working of different units of RMC plant .

10. Event photos:

