

REPORT ON SITE VISIT OF FRAMED STRUCTURE AT UMABHAVAN, ANAND

On 27th of February, we, including 2 staff and 8 students of 6th sem from the Civil Engineering Department visited the ongoing construction site of a Framed type Mercantile Building at Umabhavan, Anand.

We reached there at 1.00 pm and at that time no construction work was going on due to the lunch break. So we had a site tour at that time. Site Engineer Mr. Vishal explained about the structure. The structure is a multistory building and consists of a ground floor, basement parking and four other floors. One of the peculiarities of this building is that, apart from other construction materials, they have used AAC (Autoclaved Aerated Concrete) blocks for masonry work. Autoclaved Aerated Concrete blocks are fast replacing traditional bricks in the construction industry.

The foundation is upto 7feet below the basement. The footing methods used are as per requirements of the buildings and the types adopted are mass footing, trapezoidal footing, isolated column footing. The steel reinforcement used is 6mm, 8mm, 10mm, 12mm, 16mm, 20mm, and 25mm per requirement of the building. The estimated cost of construction of this building is around 5.5 crore. Also, we got an opportunity to meet the structural engineer of this project, Mr. Girish. M. Patel. He shared his professional experiences with us and also showed us a demo of how software is used for structural work.

IMAGES OF OUR SITE VISIT



Front elevation



ACC block



Finished Wall



ACC block Masonry Work



Ongoing Arch Work



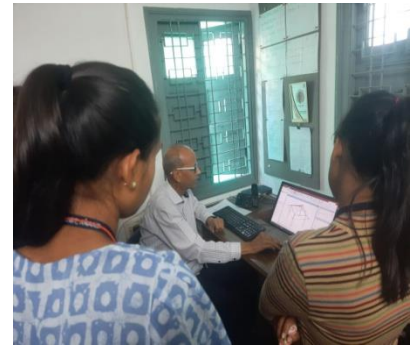
Working Drawing Analysis



Reinforcement Bars



Discussion with site Engineer



Software Demonstration

Faculty Members Visited

1. Asst. Prof. Keyur Panchal
2. Asst. Prof. Lakshmi. C R

Students Visited

1. Valand Dhaval M (210820106516)
2. Gamit Archana (210820106503)
3. Rathod Ranjan N. (210820106504)
4. Modiya Rajshree (210820106515)
5. Choudhari Mahima (210820106505)
6. Rathva Dileep (210820106502)
7. Rathva Kamlesh (210820106522)
8. Vasaiya Jashvant (210820106501)

Thanking You,

Report Prepared By

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