

Shreeyash College Of Engineering & Technology Aurangabad,  
Dr. Babasaheb Ambedkar Technological University Lonere Raigad,  
Deepartment Of Civil Engineering 2020-2021.



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# Internship Report

on

# Residential Apartment G+6

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College : SYCET , AURANGABAD MAHARSHTRA.



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# INTRODUCTION :

- The basics need of human existences are food, clothing's & shelter. From times immemorial man has been making efforts in improving their standard of living. The point of his efforts has been to provide an economic and efficient shelter. The possession of shelter besides being a basic, used, gives a feeling of security, responsibility and shown the social status of man.
- Every human being has an inherent liking for a peaceful environment needed for his pleasant living, this object is achieved by having a place of living situated at the safe and convenient location, such a place for comfortable and pleasant living requires considered and kept in view.
- A Peaceful environment.
- Safety from all-natural source & climate conditions
- General facilities for community of his residential area.
- The engineer has to keep in mind the municipal conditions, building bye laws, environment, financial capacity, water supply, sewage arrangement, provision of future, aeration, ventilation etc., in suggestion a particular type of plan to any client



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# OBJECTIVE OF INTERNSHIP :

- OBJECTIVES OF SUMMER INTERNSHIP PROGRAM
- 1. To familiarize with proper planning, design and field operations.
- 2. Plan should include construction methods to be adopted for different construction activities.
- 3. To get exposure with the management and communication functions performed within a construction project.
- Construction projects are executed based on the drawing and specifications.



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# MY ROLE :

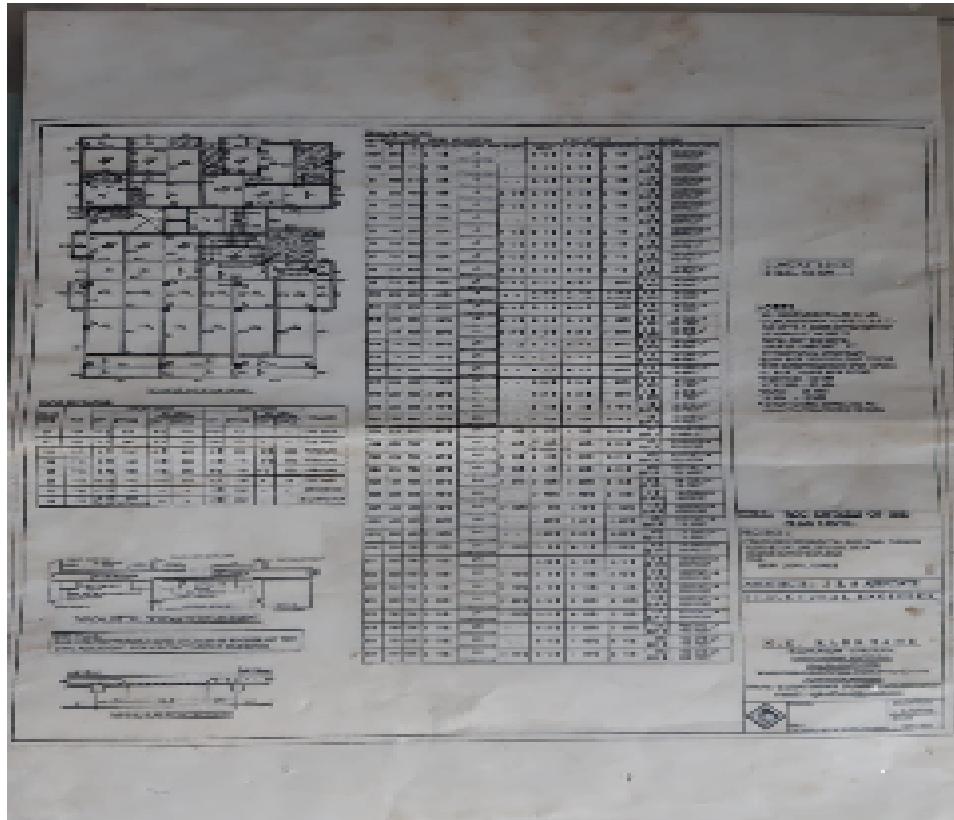
- checking steel quantities for accuracy of calculation .
- observation that all materials used and work performed are as per specification .
- observation correct implementation of works according to contract ,design, quality of materials workmanship.



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# PERSONAL OBSERVATION DURING INTERNSHIP :

- In office work , i had learned how to study
- and understand the drawings ,
- notation which are used in the drawings.



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# SITE OVERVIEW:

- Name of work: Construction of Residential apartment Location: garkheda ,ulka nagri Aurangabad
- Name of engineer: Er.CHINMAYGOYAL
- Name of company ; SAI BUILDERS Structure: R.C.C Framed Structure Estimated Cost:61 LAKHS / apartment
- Duration of completion: 14 months
- Living Room:
- Floors: Marble Flooring External
- Doors and Windows: Window steel frame with wooden shutters doors. Internal: Oil Bound Distemper
- Bedrooms:
- Floors: Laminated Wooden flooring
- External Doors and Windows: Window steel frame with wooden shutters Doors Internal doors: Enamel painted Flush doors



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# SOME PICTURES OF US WHILE SURVEYING THE WORK ON SITE :

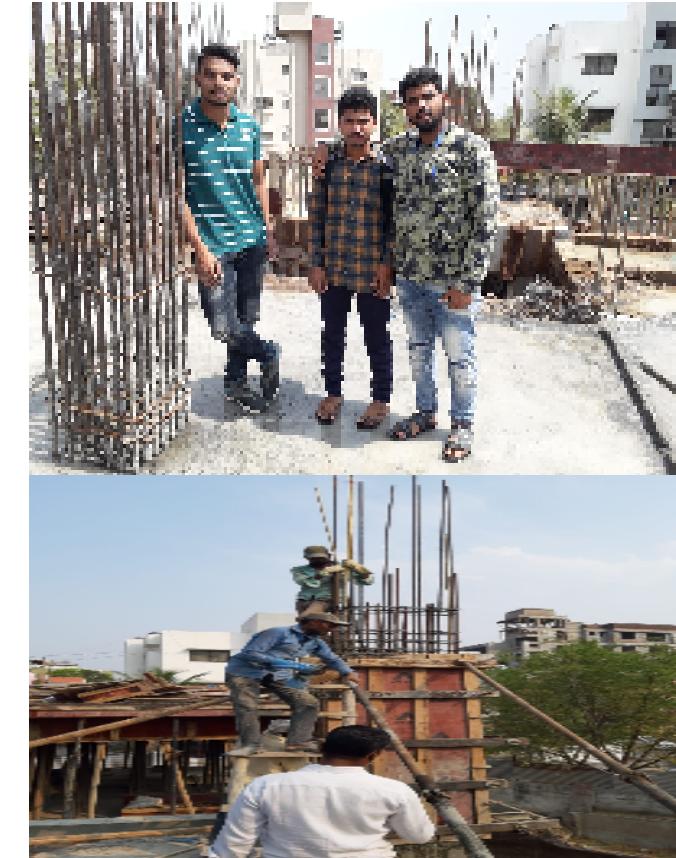
• CEMENT :



STEEL :



COLUMN :



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• STAIRCASE



PLINTH BEAM :



SLAB :



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# READY MIX CONCRETE :



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# DETAILS OF RCC :

RCC stands for reinforced cement concrete. To enhance the load carrying capacity of the concrete it is reinforced with steel bars of different diameters provided in an appropriate manner. Such concrete is called reinforced concrete and the bars are called the reinforcement. These bars are provided at various locations to resist the internal forces, which are developed due to the loads acting on the structure.

Reinforcing steel contributes to the tensile strength of the concrete. Concrete has low tensile, but high compressive strength. The tensile deficiency is compensated by reinforcing the concrete mass through insertion of plain or twisted mild steel bars. During construction make sure that steel reinforcement is provided exactly as the engineering design



- CONSTRUCTION MATERIALS :
- 1. Cement:
- Cementing materials are being used since the period when man started construction activities. Cementing means any substances, which acts as binding agent for different materials. 53 grade ordinary Portland cement was specified for block masonry as well as for concrete item.
- 2. Fine Aggregate:
- The aggregate passing through 4.75 mm I.S. sieve is termed as 'fine aggregate' Natural sand is the fine aggregate chiefly used in concrete mix may be obtained from river, lake or pit. Sand when used in a concrete mixture, it should be properly washed and tested to ascertain that it is free from clay silt and other organic matter. Sea sand is not directly used in its natural state for R.C.C. work. The salt present in sea sand is liable to attack the steel reinforcement.



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- 3. Coarse Aggregate:
  - The aggregate which retain at 4.75 mm I.S. sieve is termed as 'Coarse aggregate. The maximum size of coarse aggregate for mass concrete is 20mm and for plain concrete is 60 mm. Crushed hard stone and gravel are common materials used as coarse aggregate is usually obtained by crushing granite, crystalline lime, Stone and good variety of sand stone.
- 4. Steel Reinforcement:
  - Steel is the one of the largest used material in field of construction though strong in compression, concrete is extremely weak, in tension on the other hand steel is strong in tension and extremely weak in compression. Thus, the combination of steel and concrete has proved to take up stresses

# STRUCTURAL ELEMENTS :

- ❖ Buildings are an assembly of structural elements designed to transfer loads to the earth
- ❖ Can be defined simply as:
  - Beams
  - Columns
  - Walls
  - Connections



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# EQUIPMENT USED IN CONSTRUCTION :

- . HOE
- . HEAD PAN
- . MASONARY TROWEL
- . MEASUREMENT TAP.
- . PLUMB BOB
- . WHEEL BARROW
- . CONCRETE MIXER
- . VIBRATORS
- . RUBBER BOOTS
- . SAND SCREENING MACHINE
- . GLOVES
- . FLOAT
- . ETC,,,



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# OFFICE WORK :

- civil engineers fall into two types:
  - 1 consulting engineers and
  - 2 contracting engineers.
- Consultants are responsible for the design work of projects and work predominantly in an office.
- Contractors then take the designs and implement them during construction. Contractors work on site, managing the construction of the structure.



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# OFFICE WORK :

- Depending on whether you are a contractor or a consultant, work activities can include:
- undertaking technical and feasibility studies including site investigations
- undertaking complex calculations
- compiling job specs and supervising tendering procedures
- resolving design and development problems
- managing budgets and project resources
- scheduling material and equipment purchases and deliveries
- making sure the project complies with legal requirements, especially health and safety
- assessing the sustainability and environmental impact of projects
- ensuring projects run smoothly and structures are completed within budget and time

# CONCLUSION :

- In this practical course of field training we exposed to direct field/practical experienced with actual civil engineering work processes such as column orientation, bars placement, mixing, quality control, reinforcement (i.e. cutting, bending, placement), measurements, compaction, opening passage, multitasking, brick masonry, slabs, load distribution,.etc.
- We also gain knowledge about various documents require for new construction work, bank loans, processing etc. In this course we came across varies difficulties at various site and learned how to tackle and solve the problem in a technical manner.



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THANK YOU



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