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CAREER EPISODE 3

PROJECT: CONSTRUCTION OF RESIDENTIAL SOCIETY

INTRODUCTION:

3.1: To practically utilize my knowledge of Civil Engineering I joined Jagdamba Contractors & Builders Ltd. subsidiary of Omaxe Ltd, India which is one of the leading real estate builders of the country, in 2012. I served the organization as a site engineer and my contribution towards the project involved to look after the structural work and the finishing of the homes. I started this project of 3 bedroom house construction in March 2014 where it was a stretch of 10 months and completed in January 2015.

The project overall involved around 57 workers and I contributed as a team leader of material department along with other responsibilities. All the project relevant work was carried out at the project site with the consent of the owner while working along with the architect.

BACKGROUND:

3.2: This career episode enlightens my involvement in the construction of the residential societies located in Ambala Haryana, India. The project was concerned primarily with the construction of homes for local residents. The company I was working with was offering 2 or 3 bedroom apartments. In this particular project I

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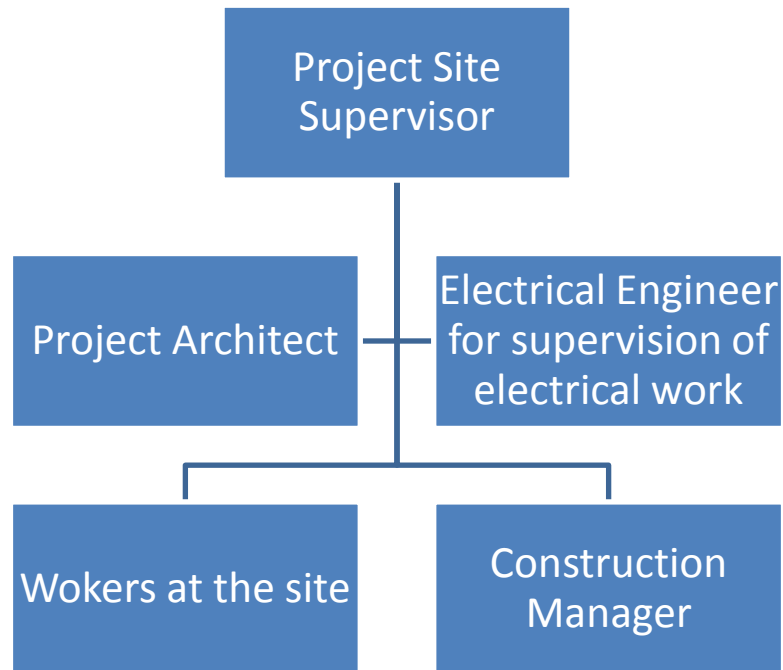
have worked on the construction of a three bedroom apartment with the total covered area of 1630sqft. It consists of 9 building/tower/blocks which is stilt (car parking) plus four floors each block. Since there were 270 families already living in the building hence we also had to be mindful of their comfort. I was responsible for carrying out the following activities:

- To supervise all the operational work of the project
- To submit and prepare the schedule reports for the project activities
- Selecting, purchasing and ensuring the quality of the material
- To manage the site workers

3.3: I supervised all the structural work and submitted the related reports to the project manager. I arranged sources for acquiring the necessary amount of formwork, concrete, steel and other materials requested. As I was the leading the material department therefore I was also in charge of the materials citing and buying service. I examined the materials in line with the customer specification and selected the most expedient store to purchase the materials. Materials were checked off the instant they arrived on the site to ensure they met the demands and conforming to what was ordered initially.

I understood and used specifications, construction methods, procedures, plans and drawings of the project. I was also in charge of constructing the structures corresponding to the contractual and design requirements on site and performed in accordance with the troupe's standards. I evaluated and observed the slipups made by the crew working under me.

3.4: Project Reporting Mechanism:



I had to prepare a monthly statement report and submit it to the project manager covering the work performance of the workers and the percentage of completed and remaining work. I organized the site labor by examining the number of workers we needed at the site to complete the work according to the chronology. I collaborated with architects, planners, supervisors and general site labor.

PERSONAL ENGINEERING ACTIVITY:

3.5: Before starting the project I had few meetings with the project owner, concerned architect and the electrical engineer responsible for all the air-conditioning and electrical work of the house. We planned and discussed all the stages of project while the owner briefed us about the project features and specifications. After understanding the scope and the project requirements I headed towards the research work to gather necessary information. I explored and utilized the knowledge of two major books; one enclosed the information about the kinds of foundation while other elaborated the concrete structures. Also I consulted the specification books prepared by engineers who had formerly worked on somewhat analogous projects. The book confined the information such as organizing the site, type of foundation, material and type of structure, etc.

The knowledge I acquired through my academic courses of Civil Engineering, Engineering Material, Survey and Site Design and Engineering Material was essentially utilized to accomplish the project goals.

3.6: My first stage of the project execution involved the preparation of the ground which we did by removing the shrubs, trees and large rocks. After doing all the cleaning I reached a contractor to do the filling of the landscape. The manager of the project demanded us to fill every layer because we were required to form a report on density and compaction through Proctor Test. Since we were concerned about eliminating and avoiding damp in the building hence I utilized my theoretical understanding regarding the Proctor compaction test which is a laboratory process of practically analyzing the optimal level of moisture, the point at which soil achieve its highest dry density. To calculate the density and sand mass to fill the container I used the formula as:

$$Ds=Ms/V$$

$$Ms=M1-M2-M3$$

Subsequently we started to level out the area and setting out the building.

3.7: The time I reached the stage of structure of the building, after getting done with the foundation part I started to evaluate the specifications and the drafts such slab of ground level and columns along with the entire forms that molded the concrete beam. During the project the most tedious part I found was the preparation of the slab for the ceiling level because we transported the concrete on wheel barrows with the help of a ramp. This stage turned out to be little costly because I had to offer extra payment to the workers and lots of extra hours were spent to get the part done with no schedule slippage. I was really appreciated by the project manager and the company owner for completing the part successfully on time. I was supervising the brick work, plumbing, roofs and all contactors on daily basis while the electrical part was directed by the electrical engineer on weekly basis.

3.8: The last stage of the project work was characterized for, decoration, the electrical and air conditioner works, finishing, painting and furniture. For me this

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stage was a bit stressful because I could see the deadline heading and I had to wind up the work before the promised date of completion so I had to spend more hours working while missing my sleep hours to avoid the slippage of chronology.

In this project we used bricks from regulated company, used artificial sand to make concrete, and reused the wood along with the nails and the screws as many times as it was possible. Since in this project we did not have any safety technician hence every day I checked and made sure that the workers had all the safety tools and were working within a safe environment.

SUMMARY:

3.9: Through this project I learned how to bring about a large number of employees at the same place, how to deal with the complications caused by the worker and resolute the minor internal conflicts. I successfully fulfilled all my responsibilities for being crowned as the team leader of the material department.

I performed all the activities in the light of engineering code of ethics and achieved all the goals that were promised at the time of project proposal. I planned everyday work of the project and sequenced the activities, established schedules and arranged meetings to complete every month's objectives.

I supervised my crew on daily basis and completed the project on time for which I was awarded by the company owner.

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CAREER EPISODE 1

PROJECT: CONSTRUCTION OF RESIDENTIAL SOCIETY:

INTRODUCTION:

1.1: After completing my graduation in Civil Engineering from Punjab Technical University in 2011, I joined Jagdamba Contractors & Builders Ltd. subsidiary of Omaxe Ltd, India which is one of the leading real estate builders of the country, in 2012. I served the organization as a site engineer and my contribution towards the project involved to look after the structural work and the finishing of the homes. I started the project on March 2012 where it was a stretch of 10 months and completed in January 2013.

The project overall involved around 50 workers and I contributed as a team leader of material department. All the project relevant work was carried out at the project site with the consent of the owner while working along with the architect.

BACKGROUND:

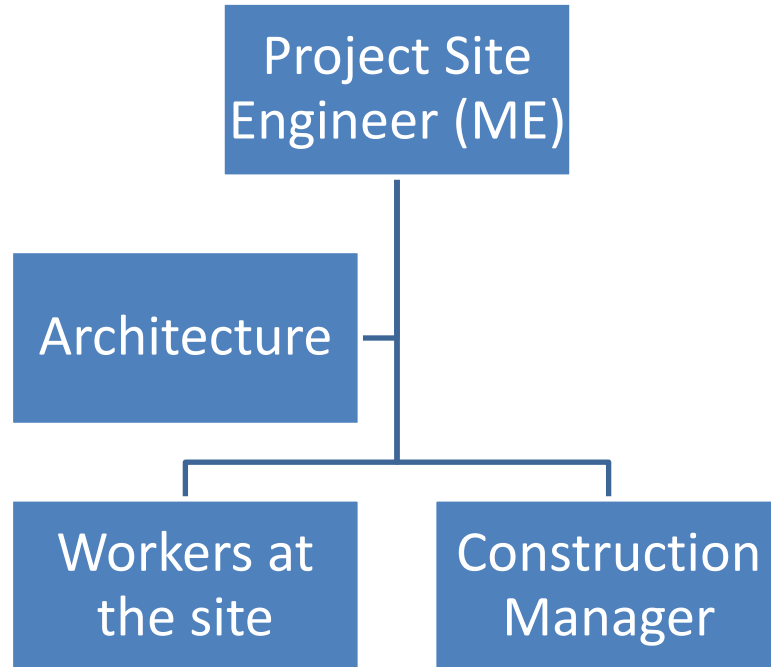
1.2: In this career episode I have explained about my contribution in the construction of the residential societies located in Ambala Haryana, India. The chief concern of the project was the construction of homes for local residents offering 2 or 3 bedroom apartments. In this particular project I have worked on the construction of a two bedroom flat with the total covered area of 1302sqft. It consists of 9 building/tower/blocks which is stilt (car parking) plus four floors each block. Since there were 270 families already living in the building therefore we had to take their comfort into consideration as well. I was responsible for carrying out the following activities:

- Analyzing the project's structural and finishing work of all the buildings

- I examined the sequence of events of the Project while bearing in mind the services and percentage of work after each month that was supposed to be accomplished as per the planned project of the company.
- Formulating the project cost plans
- Scrutiny and confirming the quality of the material.

1.3: In order to estimate the entire project cost and to form a detailed cost plan I deliberated the architectural and engineering sketches and specifications. Since I was the group leader of the material department hence was also accountable for the materials citing and procurement service. I examined the materials in line with the customer specification and selected the most expedient store to purchase the materials. Materials were checked off the instant they arrived on the site to ensure they met the demands and conforming to what was ordered initially. I evaluated and observed the slipups made by the crew working under me. I was responsible to review the drafting and interpreted specifications to educate the construction manager and the suppliers to use the precise information and procedure on the construction site. Whenever something ambiguous was spotted I had to bring it up instantly with the builder. To manage the project I had to be very mindful of the quality of work and to point out the faults instantaneously.

1.4: Project Reporting Mechanism:



I had to prepare a monthly statement report and submit it to the project manager covering the work performance of the workers and the percentage of completed and remaining work. I organized the site labor by examining the number of workers we needed at the site to complete the work according to the chronology. I collaborated with architects, planners, supervisors and general site labor.

PERSONAL ENGINEERING ACTIVITY:

1.5: Prior to the project execution I met and had a couple of sittings with the architect and the owner to understand the scope including the features of the house and the type of material to be used on the project. After generating the transparency of the vision I headed towards the research work to gather necessary information. I explored and utilized the knowledge of two major books; one enclosed the information about the kinds of foundation while other elaborated the concrete structures.

The knowledge I acquired through my academic courses of Civil Engineering, Engineering Material, Survey and Site Design and Engineering Material was essentially utilized to accomplish the project goals.

1.6: Initially I received the architectural sketch from the architect to create a structural project. The software I used for making the structural part was Concerto 100 and for electric and sanitary systems we made use of AutoCad software.

I supervised the entire construction of the building, the foundation part, slabs, columns and beams. To construct the slabs I used a pre molded slab which I bought from some other company. A day before concreting the slab, I checked all the reinforcement bars and slab assembly to certify warranty from the slabs. Since I used wood formwork for the columns and beams hence I needed to check all formwork prepared by the carpenters including width, thickness and length to confirm that the structure was in line with the architectural design of the project.

1.7: One of the major problems I faced during the project development was that the architect had projected the house with two different levels so in order to handle the heavy masonry of bricks from the upper level I had to project more beams. Those beams were positioned in the middle of the ambient and to hide them I had to make use of some ceiling covers.

I also checked all the material before actually using it for the project. I had couple of meetings with the suppliers as well and whenever a minor fault was detected in the material it was then sent back to the supplier for replacement. In this project we used bricks from regulated company, used artificial sand to make concrete, and reused the wood along with the nails and the screws as many times as it was possible.

Since in this project we did not have any safety technician hence every day I checked and made sure that the workers had all the safety tools and were working within a safe environment.

SUMMARY:

1.8: The project I carried out and met all the safety requirements. In this design I managed to estimate, calculate and picked all the materials that I found appropriate and in accordance with the customer's requirement. Although I faced

many problems while working at the site but utilizing my decision making skills and with the assistance of my crew I managed to resolve them successfully.

Keeping in mind the company's policies and the regulations of the community I performed all my project work as I also had to look after for the comfort of almost 270 families being already living in the society. I performed all the activities in the light of engineering code of ethics and achieved all the goals that were promised at the time of project proposal. I sequenced the activities, established schedules and arranged meetings to complete every month's objectives.

It was a great learning experience for me in terms of team work as well because I contributed effectively while working in a team which highlighted my teamwork capabilities. I managed my team while acting as team leader of the material department I ensured sound coordination among the team mates and ensured proper safety of the workers. I also strengthen the work relationship among the employees to avoid the situations and conflict.

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CAREER EPISODE 2

PROJECT: CONSTRUCTION OF RESIDENTIAL SOCIETY

INTRODUCTION:

2.1: In 2011 I completed my B.Tech (Civil) from Punjab Technical University, India whereas to practically utilize my findings I joined Jagdamba Contractors & Builders Ltd. subsidiary of Omaxe Ltd, India which is one of the leading real estate builders of the country, in 2012. I served the organization as a site engineer and my contribution towards the project involved to look after the structural work and the finishing of the homes. I started this project of 3 bedroom house construction in March 2013 where it was a stretch of 10 months and completed in January 2014.

The project overall involved around 57 workers and I contributed as a team leader of material department. All the project relevant work was carried out at the project site with the consent of the owner while working along with the architect.

BACKGROUND:

2.2: In this career episode I have illustrated about my contribution in the construction of the residential societies located in Ambala Haryana, India. The prime objective of the project was the construction of homes for local residents. The company I was working with was offering 2 or 3 bedroom apartments. In this

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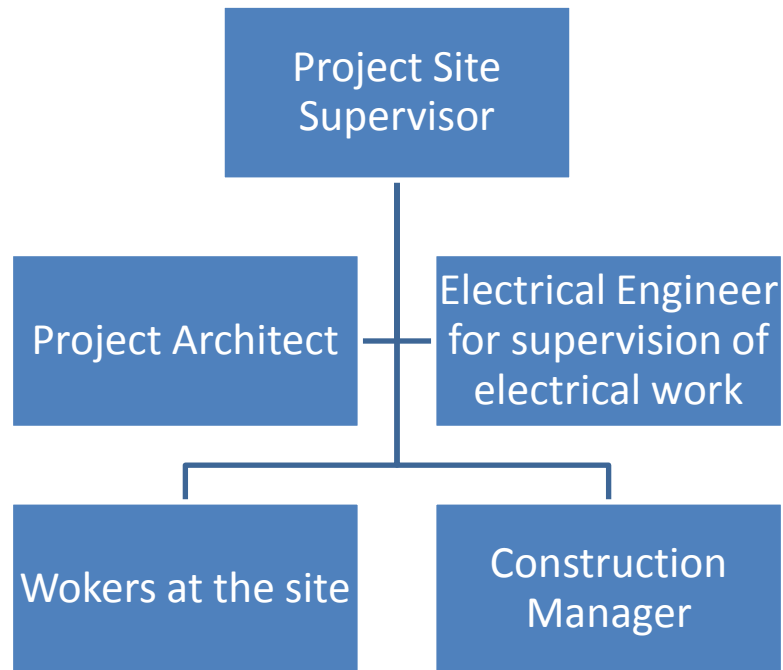
particular project I have worked on the construction of a three bedroom flat with the total covered area of 1630sqft. It consists of 9 building/tower/blocks which is stilt (car parking) plus four floors each block. Since there were 270 families already living in the building hence we also had to be mindful of their comfort. I was responsible for carrying out the following activities:

- Deciding and purchasing the appropriate material for the project.
- To monitor all the stages of project construction
- To manage and organize the labor at the site
- To analyze the project chronology.

2.3: Different communities have their own regulations which are mandatory to be addressed. In this project we had to follow some particular rules for which I approached the local regulatory who alarmed me about that the ground level of the house must not exceed 20% of the total area. So abiding by the law I ascended my project work. I scrutinized data to work out with the structure design and all necessary calculations. I carefully chose the applicable equipment and materials to get along with the specifications.

I put into play my effective communication skills to establish negotiation with the customer concerned for the approval of the decision. Employing my knowledge and working experience, I presented some changes and perfections in the design. I was acting as a leader of the crowd that was in charge of the material quoting and buying service. I opted for the most convenient store for purchasing the material and also I checked the entire supply the instant it arrived on the site.

2.4: Project Reporting Mechanism:



I had to prepare a monthly statement report and submit it to the project manager covering the work performance of the workers and the percentage of completed and remaining work. I organized the site labor by examining the number of workers we needed at the site to complete the work according to the chronology. I collaborated with architects, planners, supervisors and general site labor.

PERSONAL ENGINEERING ACTIVITY:

2.5: Before starting the project I had few meetings with the project owner, concerned architect and the electrical engineer responsible for all the electrical work of the house. We discussed all the stages of project while the owner briefed us about the project features and specifications. After understanding the scope and the project requirements I headed towards the research work to gather necessary information. I explored and utilized the knowledge of two major books; one enclosed the information about the kinds of foundation while other elaborated the concrete structures. Also I consulted the specification books prepared by engineers who had formerly worked on somewhat analogous projects. The book confined the information such as organizing the site, type of foundation, material and type of structure, etc.

The knowledge I acquired through my academic courses of Civil Engineering, Engineering Material, Survey and Site Design and Engineering Material was essentially utilized to accomplish the project goals.

2.6: I started off my project work by categorizing the employees in various divisions with respect to their area of specialization to enhance the productivity and the efficiency of the operations. I was also responsible for the storage, site work and security and accommodation. Then I worked towards setting out the building, clearing the site and also to establish the datum level. I monitored the entire work and did the leveling of the land surveyor by examining the actual ground level for the land and indicated a survey peg for cables, pipes, drains and main sewerage treatment plant. We could not use soil for leveling the area instead used excavations so a huge number of soil trucks were utilized to clean out the site. I assisted the carpenter and the construction manager to set up the profile board after the main building line. Subsequently I evaluated the area to set up clear of the foundations trench spots to place the trench, column, foundation, walls and slabs.

2.7: Keeping in mind the load of the structure I used pile foundation using pile cap and piles. Before the foundation can be laid, I checked and made sure that the location, width and depth of every hole were in line with what was mentioned on the drawing. After the excavation I tested the concrete mix and the reinforcement bars to work on the foundation and the concrete mix. To determine the amount of concrete that was required for the project and demanded from the supplier I used the formula mentioned as:

$$\text{Volume of concrete slab} = w \times l \times t$$

$$\text{Volume of cylinder (foundation)} = \pi \times r^2 \times h$$

For preparing the ground floor before pouring the concrete I had to make sure that the entire surface was treated with shuttering oil and was adequately dampen with water because I was aware that through this way only water would stay at the concrete. When we reached on higher slab I observed that a

noticeable amount of parts were missing for which the company had to bear a loss of a little high amount.

2.8: The last stage of the project work was characterized for, decoration, the electrical and air conditioner works, finishing, painting and furniture. For me this stage was a bit stressful because I could see the deadline heading and I had to wind up the work before the promised date of completion so I had to spend more hours working while missing my sleep hours to avoid the slippage of chronology.

Since in this project we did not have any safety technician hence every day I checked and made sure that the workers had all the safety tools and were working within a safe environment.

SUMMARY:

2.9: Through this project I learned how to bring about a large number of employees at the same place, how to deal with the complications caused by the worker and resolute the minor internal conflicts. I successfully fulfilled all my responsibilities for being crowned as the team leader of the material department.

I performed all the activities in the light of engineering code of ethics and achieved all the goals that were promised at the time of project proposal. I sequenced the activities, established schedules and arranged meetings to complete every month's objectives.

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