

**GOVERNMENT POLYTECHNIC FOR GIRL'S**

**AHMEDABAD**

**CIVIL ENGINEERING DEPARTMENT**

**“CONSTRUCTION PROJECT MANAGEMENT”**

**( 3360603 )**

**Construction Team**

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## CONSTRUCTION TEAM



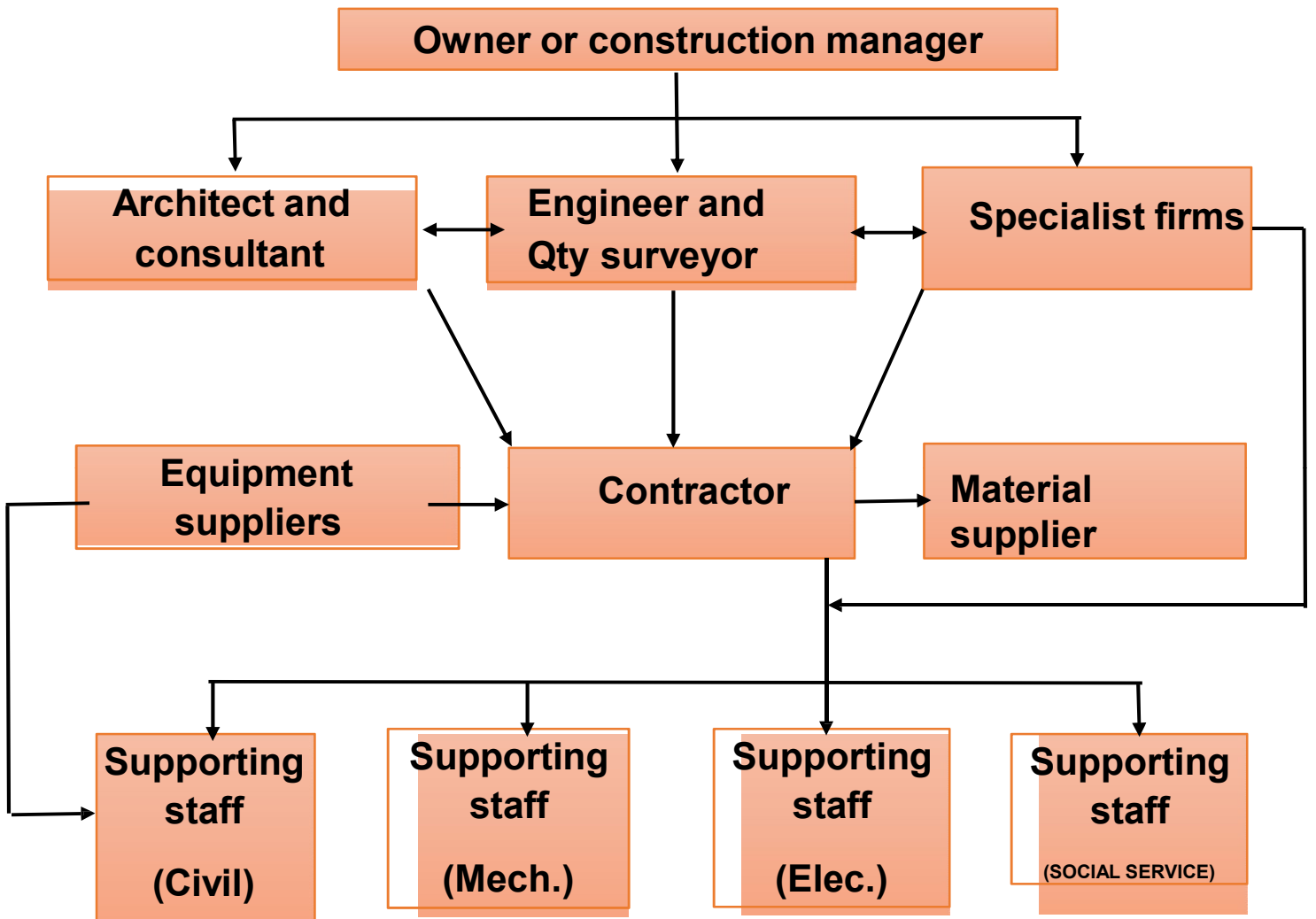
The term ‘construction team’ can have numerous interpretations in the industry. If it involves those roles that are needed to physically construct the project, it will be different than if it involves those who are responsible for the conception, planning and design of the project, such as the architect and structural engineer.

Very broadly, the construction team will include those project team members who are tasked with physically constructing what the design team has stipulated in its documentation and specifications. During the course of the project, the construction team may be subject to periodic checks and inspections by design team members to ensure the construction is on track to meet the specification and client requirements.

Typically, the construction team will comprise the following roles that will be mostly site based:

- Project Manager (responsible for delivering the project)
- Main contractor
- Site manager (clerk of works)
- Site engineer
- Sub-contractors

The construction team may comprise architects, civil engineers, structural surveyors, quality surveyors, engineers, builders and technicians. Members of the construction team may be required to give collateral warranties in relation to their work, the benefit of which can be passed to future owners of the constructed building.



**ORGANIZATION CHART OF CONSTRUCTION TEAM**

## Objectives of Construction Team:

- 1) Address interpersonal problems within the group.
- 2) Improve inter-team communication.
- 3) Enhance the productivity of employees.
- 4) Increased motivational levels among team members.
- 5) Inculcate leadership skills among employees.
- 6) Encourage out of the box & creative thinking.

## Goals of construction team:



### 1. BRINGING PEOPLE TOGETHER

As part of this change more and more companies are undertaking regular team building activities. These activities can range from a short, problem-solving activity to a retreat lasting a couple of days. And whilst some people see team building activities as a 'nice break' from work, they do have a serious purpose: and that is to develop the skills and knowledge of your staff.

If you can organise team building activities that have a purpose and objectives behind the planning then your organisation can

## 2. IMPROVE PRODUCTIVITY

Improving productivity is one of the most common goals of team building activities. Take the opportunity to identify ways to improve the three Ps (policies, processes and procedures) that can affect productivity. By encouraging employees to learn to work together more effectively and reduce duplication of effort your employees can work more efficiently.

## 3. INCREASE MOTIVATION

Construction team activities can help increase employee motivation and nurture a successful company culture in a number of ways. When a group of employees successfully complete a team building activity it creates momentum and makes them feel good about themselves, it increases employees' confidence in their, and their team's, ability and it also shows employees that the organisation is willing to invest in them.

## 4. INCREASED COLLABORATION

One of the most important benefits of a properly planned construction team activity is greater collaboration between employees. Collaboration is about knowing who has what knowledge (or can answer to a question), trusting them and their experience and being able to get access to that person when you need it. By creating activities that people enjoy and can experience as a group, employees can build relationships and develop networks of contacts outside their day-to-day role that will help them in the future.

## 5. ENCOURAGE CREATIVITY

To have a successful business based on creativity and innovation you need to employ different people with diverse perspectives and expertise in order to "cross-pollinate" the organisation with fresh ideas. Out-of-the-ordinary team building tasks give employees permission to use their imagination to come up with creative solutions, and they send the message that creativity in the workplace, and bouncing ideas off each other, is welcome.

## 6. POSITIVE REINFORCEMENT

Team building activities can also be used to provide recognition to employees by highlighting the work specific employees are doing and the behaviours that have lead to the recipient receiving the recognition. By incorporating recognition into the team building you can send a strong message to every attendee about your company values, and what that

## 7. IMPROVED COMMUNICATION

Perhaps the key benefit of a properly planned team building activity is improved communication between employees. Enjoyable, fun activities enable employees to get to know each other, create a better understanding of each other and break down walls of mistrust by encouraging people to focus on what they have in common rather than their differences.

Team building activities can be a powerful way to develop collaboration and trust, improve motivation, nurture strengths, and address weaknesses. However, they need to be had a real purpose and be properly planned in order to make a genuine impact, rather than just providing ‘a nice day out of the office’.

### **Necessity of construction team:**

1. Facilitates better communication – Activities that create discussion enable open communication among employees, and between employees and management. This can improve office relationships and in turn, the quality of work done.
2. Motivates employees – Team leadership and team building go hand in hand. The more comfortable your employees are to express their ideas and opinions, the more confident they will become. This will motivate them to take on new challenges.
3. Promotes creativity – Taking a team outside of an office setting and exposing them to new experiences will force them to think outside of their normal routine. Working together with other team members can ignite creativity and fresh ideas, which are great qualities to bring back to the office.
4. Develops problem-solving skills – In public relations a crisis can happen at any time. Team building activities that require co-workers to work together to solve problems can improve the ability to think rationally and strategically. Teams that are able to determine when a problem arises and know what they can do about it, can then effectively take charge when a real crisis occurs.
5. Breaks the barrier – Team building increases the trust factor with your employees. Often in corporate settings there is a disconnect between the leadership team and employees because the employees’ sense too large of a gap between the two. Team building exercises give leadership the opportunity to be seen as a colleague rather than a boss, which can do wonders for employee morale.

## Advantages of construction team:

- Identifying strengths and weaknesses.
- Direct towards vision and missions.
- Develops communications and collaboration.
- Establish roles and responsibilities.
- Initiates creative thinking and problem solving.
- Builds trust and moral.
- Introduces and manages changes.
- Facilitates delegation.
- Better productivity.

## Role of the owner:



The person “in charge” of the overall project is usually termed the “Owner” and is often the only nonprofessional in the entire project. It is critical for each Owner, until he or she has built numerous projects, to understand that they are operating under a significant handicap. Not only must they contend with professionals who do these types of projects (and create form contracts) for a living, but the various builders and suppliers have finite tasks while the Owner must assume financial responsibility for the success of the entire project.

### ➤ Owner duties and responsibilities:

1. Providing financing for the project.
2. Providing site surveys.
3. Securing and paying for easements.
4. Warranting the plans and specifications.
5. Warranting owner furnished materials.
6. Disclosing superior knowledge.
7. Acting on clarifications and changes.
8. Interpreting the documents.
9. Cooperating with the contractor.
10. Selecting all professionals on the project.
11. Interacting with various governmental bodies.
12. Interacting with real estate professionals to sell the finished project.
13. Interacting with title companies to facilitate the sales.

### **Role of an engineer:**



Engineer who plans, directs, and supervises large construction projects. Most construction engineers specialize in a specific type of project such as commercial buildings, heavy highway (bridges, tunnels, and underground wastewater plants), mechanical systems,



or electrical. Construction engineers operate as part engineering expert, part project manager, and part business manager. They creatively serve as a leader and middleman on construction projects to make sure everything about the project is safe, smooth, and structurally sound. Construction engineers usually work full time and may work longer 12-hour shifts seven days per week if they need to travel to a remote location to monitor project progress.

### ➤ **Construction Engineer Duties and Responsibilities**

While a construction engineer's day-to-day duties and responsibilities are determined by where they work, there are many core tasks associated with the role. Based on our analysis of job listings, these include:

#### 1. Develop Construction Plans

Construction engineers manage the planning and design stage of construction projects. They carefully evaluate the structural, electrical, and mechanical condition of each project. Engineers carefully inspect all drawings and designs before they are implemented. They plan personnel flows and decide how other contractors and subcontractors will support ongoing operations. The construction engineer also analyses a job's financial projections to ensure they are accurate and practical.

#### 2. Oversee Engineering Processes

Overseeing all the different engineering processes in a construction project is the primary responsibility of a construction engineer. They are expected to be subject-matter experts and complete routine tests to make sure that all legal regulations are followed. They keep an up-to-date understanding of all legal obligations and contract terms to prevent project delays, support all construction workers, and actively drive projects to completion.

#### 3. Manage Construction Projects

Construction engineers bring specific knowledge to construction projects, such as cost control, cost accounting, and management of project schedules. They constantly refer to schedules to make sure quality work is done on time. When needed, they facilitate discussions and create solutions between construction contractors and construction managers. It is their responsibility to eliminate disagreements in the field and misunderstandings about expected work outcomes.

#### 4. Draft Technical Support Documents

Keeping up-to-date logs, estimates, change orders, vendor forms, and surveys with different software is a key role of construction engineers. With documentation, they identify and spot technical problems in the construction process. If necessary, they secure more materials to keep construction going.

#### 5. Communicate with Team Leadership

Weekly meetings with all parties involved in a construction project are common for construction engineers. Part of their job is to provide necessary status updates and respond to questions from contractors, clients, and their own company leadership. Furthermore, they regularly assess all projects to suggest different cost-saving techniques for a project. Many construction engineers are also required to send weekly project reports to their construction manager.

#### **Role of the contractor:**



Contractors can serve a construction project from many different roles and positions. That of a general contractor (main contractor) is potentially the most influential of all.

A general contractor is responsible for a plethora of details in the course of a construction project. Finding the right people to get the job done is probably one of their most important missions. But it's not the only thing they have to do.

Taking care of materials, equipment, and any other services required for the smooth development of the project is part of their job. This is also where subcontractors can provide valuable help, as in most cases they have their own network which can support the progress of the project.

➤ **Duties and Responsibilities of Contractor.**

1. Building permits application
2. Property security
3. Providing (temporary) facilities on site
4. Taking care of generated waste
5. On-site personnel management
6. Site surveying
7. Site engineering
8. Schedule monitoring

Thank you