

# CHALLENGES FACED BY THE CONSTRUCTION INDUSTRIES IN INDIA

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## ABSTRACT:

The construction industries in India in past few decades have faced the several issues. Being the second largest contributor to the GDP the sector has lot of expectation. The stakeholder of the sector are expecting the sector to provide the excellent projects at the minimum cost at the same time the labours and the material cost is not in the control of the industry. The construction industry is going through the multiple challenges where the skills of the labours are to be enhanced; the technology to be improved, cost must be controlled and the quality to be improved. The enrichment in any one of the factor stated above has several concerns associated with it. Authors have offered the overview of the problems faced by the Indian construction industries in this manuscript.

**KEYWORDS:** Construction industry, building technology, challenges in construction projects Sustainable progress, etc.

## INTRODUCTION:

One of the fastest growing sectors is construction in India. For the year 2017 it has contribution of around 8% in the GDP. The growth in any sector always comes with the extra added pressure and the responsibilities to fulfil the expectations of the community. The second most contributing sector i.e. construction has the responsibility of economical growth of India. The social economic growth of India is depended on the construction sector. In this article, the overview of the problems associated with the construction field is presented in brief.

## LABOUR SKILLS:

It has been discussed several times but this issue remained unaddressed. Most of the labours in Indian construction companies belong to the small towns. Most of them are not literate to the school level. The people are really working hard to fulfil their daily needs. The complete front end activities on site are handled by these labours. It's not the management but the labours of the company leads to the success or failure of any construction industries. Simple expected skills for the construction workers are:

- Body Strength
- Basic knowledge of construction
- Communication skills
- Team work
- Individual learning capabilities
- Comfortable with machinery
- Coordination

Most of the construction industries are facing the problems with the skilled workforce. Government must start the professional courses to develop the future skilled labours for the construction industries. At the same time the construction industries must also work for the benefits of the workers. In current situation no literate person is willing to join construction sector as a labour.

#### **LOW PROFIT:**

The heavy competition and the small scale industries have made it difficult for the making a huge profit in construction projects. The investment, market scenario, bank loan interest, and the cost of the material these are the major factors affecting the cost of the projects. The shortage of budget leads to the late delivery of the project. It ultimately results in increase in the cost of projects many times.

#### **LACK OF TECHNOLOGY:**

Most of the small scale construction industries in India are lacking in terms of effective technology. The proper planning of the projects is not scientifically done. The owners of the small industries are not using the scientific approaches and depended on the thumb rules. In some cases the technology is not affordable to the small industries. The manufacturers of the construction machineries should concentrate on design and manufacturing of the low cost machinery affordable for the small industries.



Fig.1: Machineries used for construction

The technology helps the project right from planning stage to the execution. The proper planning needs the development plan of the project to be prepared with all the consideration. The software's available for the design, planning and execution schedule preparation of the construction projects can help in this regard. The machineries can improve the performance of the project in terms of the timely delivery of the project thereby improving the efficiency of the project.



Fig.2: Machineries used in construction projects

### SAFETY OF WORKERS:

The construction sites are the open invitations to the accidents. The machineries, material and everything is almost messed up when the construction work is in progress. The safety of the workers is one of the important concerns for the construction company. Every year many accidents took place on the construction sites and results in losing the lives of the workers. Many workers get the severe injuries on site. There are the safety norms defined by the government in India. The safety norms must be followed by the industries in order to avoid the accidents happening on construction sites. The accidents also results in dreadful publicity of the projects in India.



Fig.3: Safety wearable for construction labours

### TIME CONSTRAINTS:

The reputation of any construction industry in India is depending on the track record in terms of timely delivery of the projects. The companies completing projects in time and delivering to the customers can be most trusted. There are several factors affecting the timely delivery of the project. There is a huge pressure on the manager of project to complete the project in time. After considering the delays in operation due to several reasons, there is very short time for the company to complete the project in time. The delay in projects is increasing the cost in terms of the labour charges and the investment.

### ENVIRONMENTAL ISSUES:

Government has clearly defined rules and regulations to be followed by the construction industries related to the environmental issues. The permissions to the projects are delayed several times upon non-fulfilling the

environmental norms. The strict norm several times further increases the investment in the project. Apart from the direct expenses, the project cost involves the cost for fulfilment of the norms such as planting the trees, providing the rain water harvesting projects, solar thermal systems and clean water and air arrangements to the projects. These expenses are out of the commitments of the construction companies but due to government norms companies have to fulfil these requirements. Few of the important aspects of the environmental norms are:

- Site selection
- Controlling air pollution
- Waste water management
- Water conservation
- Rain water harvesting
- Waste management
- Energy conservation
- Solar Photovoltaic Systems (SPV)
- Heating, ventilation and air conditioning
- Using energy efficient equipments

### CONCLUSION:

The problems faced by the construction industries in India are the scope of this manuscript. Authors have offered brief knowledge about the causes of the various issues related to the construction projects. The adverse effect of these problems on cost of the project is discussed. Losses of the industry in terms of money are discussed in this paper. The project completion can be done in much stipulated time with the use of the technology for the projects. The delay in project delivery can be avoided with proper planning and execution of the projects.

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