

Research on Construction Management Strategy of Civil Engineering Based on Modern Concept

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Abstract: The rapid economic and social development drives the increase in the number of construction projects, which also puts forward higher requirements for the quality of civil engineering construction. The quality of construction project management determines the market share of the enterprise. Only by occupying more market share can the enterprise continuously develop and grow. Reasonable and scientific management of civil engineering construction site is of great significance to properly handle the combination of financial, material and human resources in the construction of engineering projects. Only by raising the consciousness of civil engineering construction site management and reaching a consensus can we jointly promote the scientific and civilized construction. Under the goal of construction management, civil construction units are trying their best to improve their own construction management level. This article will take the modern concept as the development background, the civil engineering construction management as the main content of this article, through the elaboration of the civil engineering management status, analyzes its future development and construction management strategy.

1. Introduction

Over the past two years, China's economic development has been continuously improving, and the construction industry in China has also been making continuous progress. Therefore, continuous reform of civil engineering construction management is required. The quality of civil engineering construction site management is an important measure to ensure the smooth completion of construction, which plays a decisive role in the construction process [1]. The rapid development of civil engineering construction has a great impact on the quality of construction projects, so strengthening the quality management of civil engineering construction is the main problem that construction enterprises need to pay attention to. High-quality on-site management is an important prerequisite to ensure the smooth progress of construction projects, and at the same time helps to improve the construction quality of construction projects and realize high investment returns and social benefits [2]. Carry out all-round construction management for civil engineering construction, and improve the economic benefits of civil engineering enterprises with the best construction mode and economic benefit mode [3]. Constantly improve the social reputation of the enterprise and win a broader living space for the development of civil construction enterprises. While improving the quality of civil engineering construction, we should actively explore the problems existing in the management of civil engineering construction sites and put forward corresponding solutions to solve these problems [4]. Under such overall construction management goals, civil construction units are doing their utmost to improve the enterprise's own construction management level.

The rapid development of construction engineering has a great impact on the quality of construction engineering. Strengthening the quality management of construction engineering is the main issue that construction enterprises need to pay attention to [5]. Good and orderly construction site management is conducive to strengthening personnel management and raising awareness of safety precautions. Reasonably and effectively manage the progress of various elements in the construction process of the project, with a view to optimizing the allocation of resources. The construction stage of civil engineering is the most important stage of the entire civil engineering, and the civil engineering construction management is the most important factor affecting the quality, duration and cost of the entire civil engineering [6]. In the management of civil engineering

construction, the application of modern construction management concepts and management models is very important. Only by applying modern management concepts and models, combined with the actual construction experience of the project, can we fundamentally improve the management level of civil engineering. Reasonable and scientific management of the civil engineering construction site is of great significance for the proper handling of the combination of financial resources, material resources, and human resources in the construction of engineering projects [7]. This article will take the modern concept as the development background, and take civil engineering construction management as the main content of the article. By explaining the current status of civil engineering management, the management strategy for its future development and construction will be analyzed. In the process of civil engineering construction management in the future, we will use rigorous and scientific work attitudes to perfect the construction management work as much as possible, and actively integrate modern management concepts into our daily work.

2. Development Status of Civil Construction Management

2.1. The construction market mechanism is not transparent

Judging from the development status of civil engineering construction management, many managers can't realize the importance of supervising the construction site and often neglect the implementation of construction management, which is mainly affected by the relatively outdated ideas and other factors. In the construction of civil engineering, if there are safety problems, the cost will be lost if it is light, and the project will be interrupted if it is heavy, which will not proceed smoothly, even affect the external image of construction enterprises and inhibit the development of construction enterprises. Project contract is one of the foundations of project construction. In order to realize its own interests, Party A often formulates unequal contract terms. However, China's construction market mechanism is not transparent. Even if there are unequal contract terms, Party B will generally accept them. However, in the process of construction, it will cut corners for profit and make up for the losses of the above clauses from other aspects. In the process of civil engineering construction, if you want to ensure the quality, you need financial support [8]. Under the current situation, the problem of funds is an important one that affects the management of civil engineering. Relevant civil engineering managers often lack financial support in the process of civil engineering management, which makes the management of civil engineering incomplete and the corresponding management facilities insufficient. In construction, construction enterprises should cultivate staff safety awareness, safe construction and civilized construction. However, in the actual construction of civil engineering, the phenomenon of safety management taking the form is very serious, which brings many potential safety hazards to construction engineering and safety threats to staff. As far as civil engineering itself is concerned, its construction conditions are relatively difficult. The construction personnel usually live in the open air, not only in the field, but also away from home all the year round, requiring great sacrifices.

2.2. The management system is not in place

Inadequate management system is a common phenomenon in civil engineering construction management. In order to reduce labor costs, the staffing of civil engineering construction management positions is not in place, and one person often takes on the management of multiple positions. In the process of actual work, a set of perfect and effective management plans should be formulated for the use of construction materials and equipment for distribution and management to ensure the quality of construction materials and the normal use of equipment to the greatest extent. In the actual production process, the effectiveness of civil engineering is not clearly reflected. And has a lower rate of return. Judging from the current development of the industry, in the actual construction process of civil engineering construction, the main force is mainly migrant workers, some small or temporary construction teams, not only the quality of their constructors is poor, but also the managers lack macro management awareness. It plays an important role in the overall construction progress of civil engineering, the overall construction quality of civil engineering, and

the management and control of civil construction. Engineering supervision should be a multi-faceted supervision from the whole process of project feasibility study, design, construction and delivery.

3. Effective Measures of Civil Engineering Construction Management

3.1. Improve the safety inspection system

The primary task of project management of modern civil engineering construction enterprises is to make full use of the concept of modern civil engineering construction project management in the development of civil engineering construction management. Promote the smooth development of project construction, effectively improve the control and management of the project construction process. Perfect management mechanism is the premise for any enterprise to survive [9]. Of course, civil engineering management is no exception. At present, the most prominent problem in the field of construction is that management is not standardized, and the security situation is still serious. The signing of the contract is not standardized, and both parties change the terms of the contract at will, which causes great confusion to the construction management. In order to ensure the use efficiency of civil engineering materials and reduce the project cost, the project management personnel must strengthen the management and strict control of the materials and their use on the construction site. Using the existing technology to establish a multi-mode collaborative work environment. A collaborative work support platform with integrated multimedia mode. The operation flow of cooperative design is shown in Figure 1.

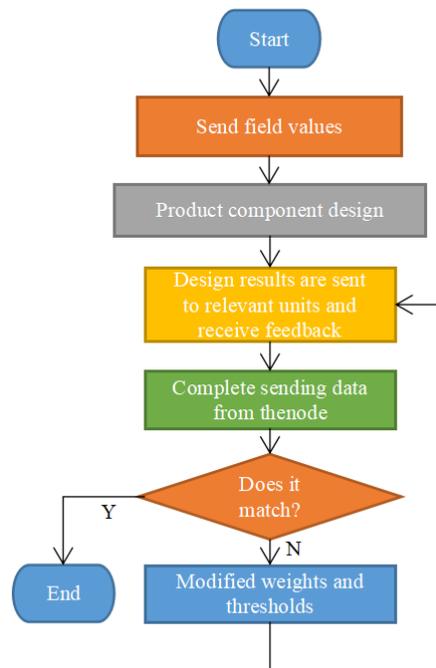


Figure 1 Civil engineering cooperative design and operation process

In the process of making safety inspection, in order to ensure the smooth development of the system, the first thing to do is to improve the safety production responsibility system, and to carry out the work, strictly require the construction personnel to carry out the construction in accordance with various standards, to ensure the overall quality of the construction. To enable civil engineering management departments to have sufficient funds to carry out renovation, so as to fully play the role of civil engineering. The construction unit does not pay enough attention to the construction management, and many civil construction enterprise management and control systems are not complete. Based on the accumulation of experience and subjective assumptions, the lack of necessary theoretical verification, this kind of construction management does not meet the requirements of modern economic development.

3.2. Improve the work quality of managers

Construction personnel play a very important role in the construction of construction projects. In the whole construction management process, the management of construction personnel is also a link that cannot be ignored. Civil engineering has brought a lot of benefits to people's lives. Managers are the main constructors in civil engineering. Therefore, managers should improve their understanding of civil engineering [10]. In the process of civil engineering construction management under the modern concept, in order to improve the working quality of management personnel, the professional ability of candidates can be assessed during the recruitment process, and management personnel can be regularly arranged for training. Improper execution system and operation of process management will reduce the construction quality of actual projects and greatly affect the safety of construction projects. The problems that may exist in the construction cannot be predicted in time, and the prevention awareness of the construction is weak. Construction enterprises should establish a certain reward and punishment system to fully mobilize the enthusiasm of management personnel. In order to achieve this goal, the first job is to improve the comprehensive quality of civil engineering management personnel. Managers should actively build construction management teams to ensure that key positions are taken care of by special personnel, clarify the responsibilities and obligations of their respective positions, and implement the practice of responsibility to people and responsibility to posts. All posts should blame themselves and do their jobs within the scope of authorization. The regulations on real-time recording of construction records shall be implemented so that the construction records are true and effective and can truly reflect the construction situation.

3.3. Improve the quality control system

Civil engineering construction is the key point of modern engineering project construction enterprise management. Its management is an important part of the whole project management. However, the current situation of engineering supervision in China mainly focuses on the quality supervision of construction site and the quantity approval and signing of work inspection and pricing. In terms of the civil construction site management in the construction field of our country at this stage, the environmental protection and site management of most construction projects are not standardized. Civil engineering has the characteristics of many construction technologies and large scale. In the process of actual construction management, in order to ensure the overall quality of civil engineering, we should comprehensively manage civil engineering. If the management method is too simple, it will affect the overall quality of civil engineering [11]. Problems such as disorderly stacking of construction materials, insufficient material protection measures, random use of materials and disordered material management not only affect the construction progress, waste of construction materials and increase construction costs, but also lay down potential safety hazards for construction safety. In the process of construction, according to the design drawings and the objective conditions of the construction environment, it is necessary to carry out the inspection to ensure its safety. Regularly invite professional personnel to check and test them, and make actual mobilization of on-site equipment. Based on this, do a good job in dynamic adjustment of engineering construction, and provide basis for other similar projects.

4. Conclusion

In the process of promoting the research on civil engineering management problems based on modern concepts, it is necessary for the industry to start with its actual development status, aiming at the existing deficiencies in the industry, promote the continuous improvement of its own construction, and then effectively improve the management efficiency. This paper discusses the problems existing in the current civil engineering construction management and puts forward the corresponding key technologies. The whole process of construction management is a systematic and organic process. The control of construction safety management is a key point of site management. To ensure the quality of construction projects, we must establish a strict quality assurance system

and a strict quality management responsibility system. It is difficult to ensure the construction quality and safety of the project only by relying on the past traditional construction experience and construction technical measures. Therefore, the application and management measures of information technology have become an important part of civil construction project management. In order to ensure the rational use of various resources on the construction site and ensure the construction quality, progress and safety of the staff, the construction management should be strengthened to make the construction site more standardized and complete the designated project control objectives. With the further implementation of engineering construction project management, the research on it will be further deepened and gradually perfected.

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