

Research on Construction Site Management and Optimization in Construction Project Management

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Abstract

With the rapid economic growth, the scale of construction projects is gradually expanded, and the difficulty of construction is also increasing. Only do a good job in the construction project management, strengthen the construction site management, timely deal with the problems and shortcomings in the construction process, ensure the construction efficiency and quality, in order to achieve the standards and requirements of the construction project. This article mainly takes the construction engineering as the research object, analyzes the construction site management optimization and perfect related content in the project management, in order to improve the construction quality and benefit, and promote the sustainable development of the construction industry.

Keywords

Construction Engineering; Project Management; Construction Site Management.

1. Introduction

Construction site management as an important foundation of the whole construction project management is the key factor to determine the level of construction. In order to improve the safety and stability of the construction project, it is necessary to do a good job in the construction and grasp the quality of each link in the construction stage. Therefore, it is necessary to strengthen the attention and attention to the construction site management, through the modern management mode and management measures, constantly improve the management level, to ensure the smooth construction of the construction project.

2. Principles of Site Management in Construction Projects

2.1 The Principle of Scientific Rationality

In order to ensure the safety and quality of the construction project, it is necessary to carry out the principle of scientific rationality in the construction site of the construction project, and maintain the principle of scientific rationality in all aspects. First of all, the principle of scientific rationality should be maintained in the personnel structure. The appropriate number of personnel should be arranged in each position, and the personnel should be composed of professional construction personnel and employees with safety awareness, which can ensure that various safety problems in the construction project can be solved. Secondly, we should reasonably arrange the construction schedule, make a good construction plan before construction, and roughly implement it according to the construction plan to ensure the rationality of the construction schedule. It can not only indirectly improve the profits of the construction enterprise, but also increase the reputation of the construction enterprise. Finally, it is necessary to carry out scientific and reasonable cost control, which can ensure the quality of the construction project, and will not lead to the construction of some false materials in the later stage of the construction if the cost exceeds the expected cost in the early stage. Implementing the principle of scientific rationality in the process of construction project management can make the

whole construction process scientific and professional, can ensure the continuous progress and optimization of construction projects, strengthen the quality of construction projects.

2.2 Principles of Standards and Norms

With the growing construction industry system, the enterprise standard also in constant progress, many companies also established their own corporate system, the relevant provisions of the used to improve the enterprise staff in operation in the process of construction engineering specification, and staff involved in daily life of some of the living standard and so on, the system is more and more standardized, the presence of construction enterprises Comply with the relevant national requirements for construction projects. And in the era of increasing competition, enterprises to stand tall in the industry, not only have excellent construction quality assurance, but also need to have standard rules and regulations for construction personnel and construction site constraints and regulations, in order to improve the core competitiveness of construction enterprises in the market.

2.3 Principle of Benefit Maximization

Construction enterprises also exist for profit, and they all want to make profits through construction projects, which is understandable. Therefore, the construction site of construction projects should comply with the principle of benefit maximization, so that enterprises can make profits from the construction of a better building, so as to form a good cycle. Therefore, the manager should strengthen the management and optimization of the construction site to ensure the maximum benefit of the construction project. For example, the reasonable arrangement and control of the construction personnel, the choice of construction personnel with higher comprehensive quality can greatly reduce the labor cost, in the selection of construction materials should also be carefully selected, choose to meet the construction requirements and can control the construction cost of building materials. The control of raw materials and personnel on the construction site is the main, but also let the construction personnel have a certain sense of saving, ensure the saving of construction materials, and do a good job in the control of construction time and construction progress, which are the key to maximize the benefits of construction enterprises.

3. Problems Existing in Construction Site Management in Construction Project Management

3.1 The Quality Management Consciousness of Construction Units is Weak

Construction unit to play a dominant role in the project implementation stage, but from the actual situation, the attention of many construction units for economic efficiency is higher, the lack of consciousness of quality management, lead to all sorts of construction quality problems, there are different management level and management measures, such as management basic differences between the management efficiency, virtually increased the difficulty of the construction site management, It is difficult to guarantee the quality of the project.

3.2 The Comprehensive Quality of Managers Needs to Be Improved

In the construction site management of construction projects, the comprehensive quality and professional ability of management personnel are the key. In the concrete construction management process, the management personnel's comprehensive quality level exposed the quality of low, management ability is not strong problems, reduce the work efficiency and quality. At the same time, the management of their own sense of responsibility is relatively weak, the importance of construction site management is not high, resulting in the construction site management work is too formal, fragmented, is not conducive to the construction site management work smoothly.

3.3 Inadequate Supervision of Building Materials

For modern construction project, has certain rigidity, material selection and use of building materials of large volume, usually use more, in order to guarantee the construction convenience, often will most of the building materials piled up at the construction site, construction site confusion reflects two

aspects of the management problems at the same time, one is the material purchase and use of plan is not comprehensive, May cause a large amount of material waste, increase the project construction cost; The second is that the materials are stacked directly on the construction site, and there is a lack of special custody, which will have all effects on the quality and performance of the materials, and will also affect the quality of construction.

3.4 Lack of Perfect Safety Management Mechanism

Safety management mechanism is the basis of safety management work, but also to ensure the construction quality, progress and cost of effective control of the prerequisite elements, but many construction units lack a perfect or even lack of safety management mechanism, the actual construction process is difficult to ensure its safety, there are many hidden dangers and problems. For example, a building project construction process, there is no perfect safety management mechanism, leads to the lack of normative operation, construction personnel behavior to transfer into material, were piled material, and not to take any fire prevention, moistureproof measure, cause material appear mildew, deformation, etc., influences the construction of the overall quality and operational performance.

4. Optimization Strategy of Construction Site Management in Construction Project Management

4.1 Strengthen Project Management Awareness

Project management with the rapid development of construction industry constantly improve, to ensure that effect to the project construction management requirements, it is necessary to strengthen the awareness of project management, make all staff the importance of adequate management, so as to achieve the management effect of get twice the result with half the effort, in order to avoid management problem from the source, to perfect the management mechanism as the basis, To effectively restrict and standardize the management behavior, through strengthening the training of management consciousness, to ensure the effectiveness of management work to the greatest extent.

4.2 Improve the Comprehensive Ability of Site Management Personnel

For construction projects, the quality of construction site management is determined by the comprehensive ability level of the management personnel. Therefore, attention should be paid to improving the professional level and their own accomplishment of the management personnel, ensuring that the management personnel have certain practical experience, so as to give full play to the maximum efficiency of the management personnel. In addition, professional training for site managers should be carried out regularly, and some advanced management skills and concepts should be infiltrated into the construction site management, so as to improve the management level. In order to ensure that the field management personnel can master the application of knowledge and skills, the practice management can be tracked, monitoring and evaluation methods can be adopted, and the management personnel can be urged to constantly improve themselves, so that the overall quality of the management personnel can be improved. But special attention should be paid to the development of management training to the construction site situation as the fundamental starting point, targeted, purposeful design training content, for the realization of difficult construction site management to create favorable conditions.

4.3 Strengthen the Management of Construction Materials on the Construction Site

Do a good job in the management of construction materials, ensure that the quality of construction materials meet the construction standards and requirements, avoid the construction material quality problems caused by the impact on site management.

According to the construction situation of the construction project, clear procurement requirements of construction materials, timely grasp the market price of construction materials, put an end to quality

problems of construction materials into the construction site, improve the safety and reliability of construction materials.

In the process of construction material management, it is necessary to ensure the stability of construction material supply, ensure the sufficient supply of materials, and do a good job in the storage of construction materials, reduce the waste of construction materials, improve the quality of construction engineering, and promote the smooth development of construction site management.

4.4 Establish a Sound Management Mechanism

Construction engineering project implementation process, perfect management mechanism is indispensable, in order to guarantee the quality and effectiveness of management, project management, to comprehensively examine all aspects of the project, formulate corresponding and perfect management mechanism, to ensure that project management mechanism will cover all construction stages, starting from the project until the end of completion of the construction whole process plays a role of supervision and management. At the same time, the emergency treatment plan should be formulated, combined with the current situation of the construction project, analyze the possible problems or hidden dangers, and put forward the high feasibility of the treatment countermeasures, to ensure the completion of the project on schedule. For example, at the beginning of the project, the cost involved in the construction process should be accurately calculated, and the construction team and technical personnel that match the construction project should be selected. Construction of the middle of the real-time feedback schedule management, safety management and construction conditions, thus forming a complete management organization, to avoid the production of construction problems, and to develop a strong reference for construction key and difficult problem mechanism, so as to indicate the direction for the implementation of the management work, ensure that the management through each construction details, So that the construction management more scientific and normative.

5. Conclusion

In a word, in order to improve the technical level of the domestic construction industry, it is necessary to improve the construction site management of construction projects, give play to the advantages of new construction technologies and new management concepts in practice, effectively control them from the overall or macro level, and do fine management at the micro level. Relevant units to effectively control the construction quality, strengthening safety management measures from various angles, to enhance the rationality of cost management work itself, the construction site for the inside of a construction project management work smoothly to lay the solid foundation, to make it better and faster development, truly realize the construction unit economic and social benefits.

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