Problems and Countermeasures in the Process of Construction Engineering Cost Control Management

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Abstract: Engineering Cost Management is a dynamic, complex, comprehensive and systematic management activity that runs through the entire implementation process of the construction project. At present, China's engineering cost management system is not standardized and perfect, which makes it difficult to guarantee economic and social benefits in the market economy system and construction projects. This has become an urgent problem to be solved in the construction project management. Therefore, research on the control and management of construction project cost control is carried out, and it is of great significance to give greater play to economic and social benefits in China's engineering construction. This paper first analyzes the development of Wang Cheng's cost control process management and some management methods: Secondly, it combines the actual case to introduce the process control of China's engineering cost from five stages: investment decision stage, design stage, bidding stage, construction stage and completion stage. Some problems existed in the management; finally, the solutions and measures for the project cost management control were put forward for the existing problems. I hope that I can provide a basis for future theoretical research on Wang Cheng's cost control management, and use these theories to better guide practice.

1. Introduction

In order to ensure the versatility and intelligence of the modern project, modern projects have a large floor space with a long construction period. The development of the building has laid the foundation for social progress, but at the same time it has made the project cost control. With greater difficulty, cost management needs to be guaranteed at the scientific and rational level, otherwise it will affect the normal construction of the project due to problems in cost management. The project cost is all the cost of the project from the preparation of the project to the time of delivery. The effective control of the project cost is of great significance for maximizing the investment and social benefits. Long-term and sincere, due to the impact of the budgetary quota management system in the planned economy period, China's Engineering cost control management is mainly based on the pre-planning. With the advancement of China's market economic system reform since the reform and opening up, especially after joining the WTO, China began to gradually implement the engineering quantity list pricing model and the Wang Cheng cost control process management model. Regrettably, so far, the whole process of project cost and all aspects of the control management model have still not received the attention of most construction units, and the project cost work still remains in the calculation of engineering quantity, set quota, accounting project total cost, etc. Obviously, it cannot meet the requirements of China's engineering cost and international standards, nor can it meet the requirements of current construction projects for project cost control. In recent years, the incidents of "bridges" and "crusty buildings" that triggered social attention have once again sounded the alarm for the construction cost management of construction projects.

2. Insufficient cost management work in project construction

The work on cost management affects all aspects of project construction. At the same time, the cost management work also penetrates the whole process from the project decision-making stage to

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the project completion stage. In order to complete the cost management work, it is necessary to handle the project. The cost management and control work of the design link, the construction link, and the completion acceptance check. These links together constitute the cost management work. The lack of any link will affect the quality of the cost control work. However, in the current stage of actual project cost control, the control of the cost of each link is disconnected, which directly causes the investment personnel of the project to invest in the budget of the project, the design budget of the design personnel to the project, and the construction of the project personnel. In the stage of construction cost management, the cost control and control work of these links failed to develop in a coordinated manner. Although the staff at the current stage can communicate the approximate cost of the project, they have not been able to effectively formulate a detailed cost control plan, especially in the case of incomplete communication between the staff in each link. Bad effects. There are even some projects that lack the complete communication of the design or construction work of the follow-up links due to the lack of communication management of the various links, and then start to work with the supervisor experience, and ultimately the project will Construction progress and construction quality have adverse effects.

As China attaches more importance to project cost management, its personnel engaged in project cost management work has also increased, but there are relatively few professional talents with nationally awarded engineering cost engineer qualifications, while comprehensive quality management talents and seniors professional management personnel are very scarce, leading to a situation in which the number of employees in the engineering management market in China is increasing but the job quality is low.

3. Countermeasures and measures for project cost control

The project feasibility study refers to the construction unit to organize experts or entrust professional institutions to investigate, analyze and study the technical, economic, environmental, engineering and other contents of the proposed project according to their own development and market needs, and comprehensively consider the practicability of the proposed project. Economic, reliability, necessity and feasibility, economic and social benefits after completion. Advising on whether the proposed project is worth investing and how to proceed with it, thus providing a scientific basis for the final investment decision. Feasibility study is an important work content in the investment decision-making stage and a key basis for final decision-making. Therefore, it is necessary to seriously carry out the feasibility study of the proposed project.

The construction standards of the project include a number of indicators such as process equipment, construction standards, labor quotas, and supporting projects. The establishment of construction standards has a major impact on project cost, and will have a major impact on the final grade and function of the project. At the same scale, the cost of a five-star hotel is much higher than that of a four-star hotel, and the cost of a first-class road is much higher than that of an ordinary road.

The foundation of the project construction scale benefits is advanced technology and equipment. Technical and equipment factors include production processes, floor plan solutions, production equipment, and more. The correct choice of production process should balance the applicability, advancement and economy, and adopt the advanced technology that meets the needs of the enterprise as much as possible, while pursuing the most economical effect. The rational design of the layout plan helps to achieve the effect of saving land, reducing the amount of work, and speeding up the construction progress, so that the project can be put into operation as soon as possible, and the investment benefits can be realized earlier. The scientific selection of production equipment is of great significance to construction projects, especially industrial projects. In the process of project construction, under the premise of satisfying the function of use, the selection of project equipment should consider the performance, applicability and economy of the project equipment, select the equipment with higher cost performance, and combine the influence of equipment on the choice of project construction plan. Choose the best construction plan.

The overall planning and design of the project is the starting point of the whole project, and it is

also the link that has the greatest impact on the cost management. The designer needs to coordinate the relationship between the project quality and the project cost to ensure the smooth construction of the project. At present, people are generally keen on the construction of intelligent, high-rise buildings, but these types of buildings are more susceptible to environmental factors and construction unit level factors during construction. Therefore, these factors should be estimated when designing. In order to control the cost of the project within a reasonable range. In addition, the building materials of the building are gradually enriched, and the material appearance, material properties, and material composition are different from the traditional materials, so that the design unit must be able to design according to the building strength and appearance. The most suiTable material for the needs and structure needs.

The work of modern cost management has strong complexity. It not only needs cost management personnel to have certain professional qualities, but also has the ability in economics, construction and comprehensive management to handle project cost control. Everything needs. Especially in the current rapid development of building technology, it is even more necessary to have such a group of management talents with strong comprehensive capabilities. To cultivate such talents, educational institutions and industry management organizations should work together to cultivate the cost management talents that enterprises need. In the development process of construction enterprises, we should actively strengthen the emphasis on cost-cost work. Construction cost control is an important part of the project development process. Under the premise of ensuring the quality of construction projects, we must purchase various materials and staff salaries. Arrange to ensure that the construction project funds are fully utilized and the waste of engineering costs is reduced. In view of the fact that some enterprises are not paying much attention to cost control work, modern enterprise development must strengthen the study of market economy situation, and combine modern enterprise management concepts to actively carry out cost control management, such as recruiting more professionals. Technical personnel, improve the cost control management system, and strengthen the promotion of the importance of cost control in the entire enterprise, so that all members of the enterprise can realize the cost control and enterprise cost control and engineering control and the importance of quality control. Cost control is a dynamic management process. It is not static. As the construction industry continues to develop, the limitations and constraints of traditional concepts become more and more obvious. In the new era, it is necessary to actively strengthen the innovation of traditional cost management control concepts. Change, in the implementation phase of the entire construction project, cost control management should be carried out to promote the improvement of the cost control management level. Specifically, it can be started from the following aspects: Cost control during the tendering phase.

The bidding is the beginning of the project. At present, the level of management of the bidding stage in China is not enough. The cost management process in the bidding stage is relatively extensive, and there is no scientific and reasonable planning for various detailed matters in the bidding process. During the cost management process of the tendering stage, some irregular behaviors are likely to occur, resulting in excessive project cost. With the continuous development of the construction industry, the requirements for the construction industry are becoming higher and higher. In the bidding process, the control of the bidding process should be actively strengthened. The bidding enterprises should be strictly examined according to the bidding process, and the project cost should be planned. To ensure the smooth progress of the project bidding, the project cost can also be reflected in the bidding documents, reducing various additional costs in the later construction process. Comprehensive management of various costs. First, control the cost of materials. In the construction process of construction projects, materials are the basis of construction, and material cost is the main content of engineering costs. It is necessary to actively strengthen the control and management of material costs, rationally purchase materials, and prevent the occurrence of illegal procurement. Cost control under the premise of material quality.

4. Conclusion

Cost control is of great importance to the cost control of engineering projects. In the construction

process of construction projects, we must actively strengthen the emphasis on cost control management, form a dynamic control concept, and establish a high-quality cost management team to improve the cost of engineering projects. Cost control management level to improve the economic efficiency of enterprises.

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