

Discussion on Dynamic Management and Control of Construction Engineering Cost

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Abstract: Construction project cost management is the foundation of construction engineering. Because of the long cycle time and large investment amount of construction projects, it is necessary to manage the construction cost from all sides to prevent the occurrence of uncertainties. The project cost is generally long, and it will encounter a variety of climates, and the investment amount of construction projects is higher than that of general projects. Therefore, it is very important to carry out construction project cost management and control, plan the development of many possible factors, carry out cost management during the construction of the construction project, and adjust the control scope of the project cost according to the actual construction conditions of the construction project, aiming at ensuring the cost of the construction project within the controllable range, to ensure the effective implementation of construction projects. This paper starts with the concept of construction project cost, and briefly analyzes how to strengthen the dynamic management and control of project cost.

1. Introduction

With the rapid development of China's social economy, the gradual improvement of high-tech such as big data and artificial intelligence, and the accelerating process of urbanization, the construction engineering construction industry has also ushered in new development opportunities, and more and more development opportunities are Construction projects offer new directions for development. However, while seeing the opportunity, we must see the deep-seated problem, that is, the construction project cost problem, and the construction project cost problem directly affects the cost management and economic benefit of China's construction project. Therefore, it is necessary to strengthen the dynamic management and control of construction project cost. The dynamic management and control of construction project cost is effectively controlled from the initial decision-making of construction projects, project design, medium-term project construction to final completion settlement, and the overall control is to ensure the maximum benefits of construction projects. Therefore, the effective management and control of effective construction project cost can not only optimize the staff, save construction materials, allocate construction equipment, etc., but also have effective control over the construction progress of the project. The dynamic management and control of construction project cost is mainly carried out from the factors affecting the construction cost, in order to expect the smooth development of construction projects.

2. The dynamic management and control analysis of construction project cost

All the amounts involved in the initial decision-making phase and the new project design phase are estimates, but this phase is the most insignificant phase. It is important to pay attention to the dynamic management and control of this phase. A good start can be the whole The key to the dynamic management and control identification of construction project cost. The first is the initial decision-making of the project. In this stage, the cost of construction engineering should comprehensively analyze and evaluate all the factors that can cause the change of project cost, and put forward many feasible opinions and suggestions to guarantee the construction project. Planners can choose the most appropriate engineering manufacturing solution. In the initial decision-making stage of construction engineering, pay attention to the risk control of construction engineering,

conduct project risk analysis, understand the causes of possible risks and the impacts, and seek countermeasures in advance to expect to minimize the impact. Guarantee the real and effective construction cost, and ensure that construction projects can obtain maximum benefits. The second is the dynamic management and control of the project design stage. The construction engineering design stage is mainly divided into three stages: preliminary design, technical design and construction drawing design. The depth of cost management and control involved in the three stages is different. Gradually deepening, the cost management and control required will gradually increase. The preliminary design stage is the initial stage of the design. The stage is mainly that the design department needs to calculate the approximate cost of the project. On the basis of satisfying the construction quality of the construction project, the cost control is carried out to design the most reasonable construction engineering manufacturing plan. The technical design phase is carried out after the preliminary design phase is completed. The data provided in the preliminary design phase is analyzed to determine the clear engineering structure and construction materials. The construction drawing design phase is the most important step in the entire design phase. This phase is the result of preliminary preliminary design and technical design. This phase requires the predictive design of the construction drawing designer to find problems that may occur during the construction process. Scientific analysis of these problems, drawing construction engineering drawings in line with the actual situation, as much as possible to reduce the cost of the project construction process.

What needs to be done in the early stage of the construction phase of the construction project is to collect the data as comprehensively as possible and analyze the collected data, so as to ensure the estimated project budget is accurate, and it can provide for the future development of project cost management and control work. More reliable data support. The work carried out at this stage needs to ensure the authenticity and effectiveness of the data, to be more refined, to reduce the abuse, to ensure the true validity of the data, and to truly play the role of data analysis in the era of big data. And after the receipt of the receipt, the data must be kept in a certain amount. The construction industry is a highly competitive market. Construction materials are the most important basic factors in the construction engineering manufacturing industry. It is necessary to ensure that the prices of construction materials are always within the controllable range, and avoid the uncontrollable material market factors that lead to the increase in material prices. It is necessary to strengthen the professional quality of construction project cost personnel, comprehensively control the market, timely discover the price changes of construction materials, and effectively control the construction materials.

After the completion of the construction phase of the construction project, it is necessary to carry out the work of completion settlement. In the work process of completion settlement, the completion settlement needs to be divided into two aspects: quality verification and balance settlement. Quality verification is the quality and quality inspector according to the project design. The drawings and signed contracts control the quality of the construction project and the actual cost of the construction, thus ensuring all the planning and design stages in the early stage, the construction drawing design stage and the construction stage are effectively carried out, and finally the delivery of the construction project is realized. The balance of the balance is the construction project contract. Party A needs to deliver the amount to be paid to Party B according to the contract. The settlement price is compared with the specific cost price. It can clearly see the receipt of the balance amount, so that the actual Ensuring the commencement of inspection and acceptance of construction projects. Of course, the completion and settlement process of construction engineering enterprises also needs to carry out certain data preparation work, summarize all the data related to the cost settlement related to the construction, analyze with similar projects, and comprehensively analyze the advantages of the construction project and the previous projects. , what are the shortcomings, timely correction of the problems found, and the implementation of new systems in the dynamic management and control of new construction projects.

3. Improve the dynamic management and control measures of construction project cost

In today's economic environment, the calculation and analysis of construction project cost is basically carried out based on the current social assessment standards and industry assessment criteria. It is necessary for construction enterprises to combine construction projects with actual conditions and earnestly carry out construction project cost and find The boundaries of construction engineering, grasping the precise scope and function of the project, and relatively accurate assessment of the construction project under the premise of accurate grasp. To put it simply, the cost of construction engineering requires comprehensive control of the construction engineering cost department. However, although relatively reasonable design and guidelines have been formulated, many factors in construction engineering are unpredictable and uncontrollable during construction. There is also a frequent phenomenon that budget costs and construction costs cannot be unified. This phenomenon seriously affects the cost control of construction enterprises. Therefore, even if the most reasonable construction design drawings are drawn and the most reasonable construction plan is formulated, it is necessary to flexibly control the true direction of the building during construction and reduce the cost of the construction enterprise on the basis of ensuring the construction quality of the building. For construction projects, when the project design budget is completed, all the costs have been basically determined at the theoretical level. However, at the actual operational level, the construction cost is also affected by many factors. This requires timely raising of the awareness of construction enterprise decision-makers in the construction enterprise. Can decision makers pay attention to the information feedback from the construction layer and analyze the data to find the gap between the budget and the actual cost. influences. If the awareness of decision makers can be improved, the construction risk of construction enterprises can be effectively reduced, and the cost can be minimized under the premise of ensuring the quality of the project. Realize the realization of the interests of construction enterprises.

With the rapid development of the global economy, knowledge information is changing day by day. In the modern society where talents are scarce, construction companies must cultivate and hire excellent employees who can promote the progress of construction enterprises, and always pay attention to the staff of the enterprise engineering cost department. The construction engineering cost and investment analysis ability, among which the employees of the risk analysis department of the engineering cost department have always played an important role in the development of the enterprise. Attention should always be paid to the impact of the investment risk analysis department to enable the construction engineering cost department personnel to be more accurate in data collection and analysis, to ensure that construction companies have lower construction engineering costs, increase net profit, and achieve greater capital space for construction enterprises. Therefore, the first thing to do is to train the staff of the existing engineering cost department to strengthen their engineering design, material price control and risk analysis capabilities, so that the staff of these construction engineering cost departments can continue to Improve, improve their financial forecasting ability, but also improve the communication and coordination skills of the staff, improve employee risk analysis, capital operation strength, engineering cost design capabilities. Let it clearly manage and control the construction projects of the construction enterprises, and then regularly train these workers. During the training process, they will pay attention to the unique problems of each employee and solve the shortcomings of each employee individually. All have improved comprehensive ability, and will be assessed within a period of time after the completion of the training, to eliminate those employees who can not carry out dynamic management and control of construction project cost, so that the original construction cost management and control staff of the construction enterprise are It can control the project construction cost of the enterprise, ensure that the investment of the decision makers of the construction enterprise is kept within the scope of the plan, and make reasonable investment within the scope permitted by law, reduce the investment risk of the construction enterprise, improve the investment efficiency of the enterprise, and achieve a higher return on investment. Secondly, it is necessary to introduce new talents and absorb fresh blood. When recruiting, we must pay attention to raising recruitment requirements. We must pay

attention to whether candidates have professional competence, whether they have certain learning and thinking skills, and whether they can be competent for dynamic management of construction project cost. And control department's job requirements, and corresponding personnel to carry out professional knowledge ability test, test whether they can have their own ideas in construction project cost; can rationally use their knowledge to reduce construction enterprise investment risk within the scope of law; Provide advice for construction companies to control costs in the future; can provide valuable advice for the future strategy of construction companies. The construction company guarantees the dynamic management and control of the construction cost of the enterprise from the new members and the old employees, combined with the impulse of the new members and the stability of the old employees, comprehensively guarantees the working ability of the new and old personnel of the enterprise and promotes the development of the construction enterprise. .

With the improvement of the economic market and the gradual improvement of the modernization level, the realization of technologies such as big data and artificial intelligence, there will be more and more information on the construction cost of construction enterprises. How to collect more accurate construction cost data collection and analysis Construction project cost data, which is extremely important for the data analysis and processing of construction companies. The first thing to note is that construction companies should be able to update computer and computer control programs in a timely manner. From the hardware aspect, they should first adapt to the cumbersome phenomenon of construction project cost data that needs to be dealt with during the development of big data, and collect data that can be beneficial to the construction project cost department. The data is sorted and collected, and different business data are classified into files to form one information system after another. Subsequently, certain construction project cost data should be sorted out. Timely finishing work can improve the efficiency of the entire construction project cost department. When data is needed, the required construction project cost data can be extracted from the fixed data system in time. Secondly, it is necessary to strengthen the information confidentiality work of the construction project cost department, update the safety system of the construction project cost department on time, and maintain the company's own advantages. The aim is to construct a information platform for the construction enterprise to construct information processing for the construction enterprise cost engineering department. Let the construction project cost department truly analyze the past construction project cost data, control the current construction project cost plan, and coordinate the future construction project cost and other functions to play a comprehensive role and form a comprehensive departmental function. Allowing construction companies to have sufficient ways to solve different construction project cost risks. When the decision-making managers of construction enterprises make mistakes in decision-making, the construction engineering cost department can promptly point out the place where the decision-making is wrong, so that the construction enterprises can occupy High market share.

4. Conclusion

In summary, the dynamic management and control of construction project cost is a key research project of construction enterprises. With the continuous improvement of social economy, construction enterprises must follow the footsteps of market economy and formulate reasonable plans to carry out construction project cost. In the process of management and control, we must always adhere to the concept of dynamic control. At the same time, we must improve the comprehensive quality of the construction engineering cost department staff of China's construction enterprises, improve their ability to analyze risks and control risks, and achieve real-time control. Let the construction projects of the construction enterprises carry out under the conditions of sufficient funds, and ensure that the construction enterprises have sufficient profit return, so that the construction enterprises occupy a favorable position in the fierce market competition of the construction industry.

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