



Application of Construction Engineering Economic Management in Engineering Management

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Abstract

The development of the construction industry is an important foundation for China's economic development, and to a certain extent, it guarantees the sustained and stable growth of the national economy. However, the sustainable development of the construction industry also faces huge challenges. Among them, the effective integration and innovation of construction work in the economic management of engineering construction has become inevitable. With the continuous deepening of China's economic system reform, relevant engineering departments have used a series of management methods closely related to engineering projects in their work, which have promoted the development of the construction industry. This article analyzes and discusses from multiple levels such as construction units, engineering management and project managers, in order to provide reference and reference for the management of the construction industry.

Keywords

Construction engineering; economic management; project management

Economic management of construction projects is an important method for comprehensive management of construction projects. This paper mainly focuses on how construction units can carry out economic benefit analysis of construction projects. Combined with the current status of construction engineering technology in China, it discusses the current status and development trend of economic management of construction projects in China. With the continuous development of science and technology, Chinese enterprises are facing many challenges while becoming bigger and stronger. The management of construction costs must be effectively controlled, and the professional knowledge training of relevant staff must be strengthened to ensure that they have a more comprehensive and scientific understanding of new technologies, thereby ensuring that Chinese enterprises will not be eliminated. With the continuous expansion of China's economic scale, competition among enterprises is also increasing. In order to obtain higher profits and competitiveness, reasonable and scientific management must be carried out. The focus of economic management is to comprehensively analyze the various problems and challenges faced by different regions, enterprises and individuals in construction. From the main links in the construction process, the first thing to do is to control the equipment prices and material specifications of each enterprise and the personnel allocation management, and the second is to control the project cost and project profit to control the project investment, risk and cost control, etc. Finally, it is to build a sustainable economic pattern. In order to achieve the above goals, it is necessary to reasonably improve the economic benefits and competitiveness that enterprises need to effectively improve during the construction process.

1. Economic Benefit Analysis of Construction Engineering

In the process of construction project construction, we should reasonably use the methods and means of economic management. The most important thing for construction project management is project investment decision. Its role

is to maximize the benefits between different projects, so as to ensure that enterprises can obtain higher economic benefits. For investment decision, it is necessary to investigate from many aspects. First of all, we should make an overall assessment of the construction project, including equipment, materials and other aspects. In addition, it is necessary to strictly control the construction quality of the project, such as analyzing and evaluating the quality of various engineering materials; secondly, we should conduct a comprehensive analysis of the technology and equipment used. For example, according to the types and specifications of the materials and equipment required for the project, it is necessary to determine the specifications, models and quantities used, so as to effectively play the role of various equipment or parts. For on-site control and organization of construction, it is necessary to comprehensively consider the problems, analyze the situation and take measures to organize and manage the site according to the construction process. Among them, the organization and management of the site includes formulating detailed plans and goals for various work tasks and supervising the implementation of work execution scenarios; then, we should train and guide the relevant personnel to ensure that they have sufficient professional ability to perform on-site supervision and coordination tasks, so as to ensure the continuous improvement of the quality of on-site work; finally, we should reasonably manage the actual construction progress and quality, such as optimizing the process, speeding up the progress and construction cycle. Generally speaking, the goal of maximizing benefits is achieved through scientific and effective management.

2. The Significance of Economic Management of Construction Projects

Construction units must follow scientific methods and combine the application of new technologies to achieve significant improvement in economic benefits when carrying out construction management. First of all, when construction is carried out on a construction site, advanced construction technology and tools must be used to ensure the quality and safety performance of the construction site. Train construction personnel to ensure that they have certain professional knowledge, and also control them according to the project cost and enterprise cost situation. Secondly, the economic management of the construction site must comprehensively optimize the construction technology, project management and personnel allocation in the construction project to maximize economic benefits. Only in this way can the enterprise maintain a good production and development environment. Finally, it is necessary to effectively control the construction cost. Comprehensively analyze each construction process to ensure that the project can achieve ideal results. Comprehensive analysis and control through economic management in the construction stage will reduce construction costs and increase benefits. Therefore, it is necessary to integrate construction project management into economic cost management to achieve the goal of maximizing economic benefits. In addition, it is necessary to strengthen the construction of internal resource control and utilization capabilities, focusing on increasing the output of related products, reducing product costs and quality, and reducing construction costs. Only in this way can the risk of engineering construction be reduced to the greatest extent possible, thereby effectively promoting the improvement of corporate and project benefits.

3. Problems in Current Practical Operations

With the continuous development of the times, the strength of Chinese enterprises is also constantly increasing, but some construction units have a weak awareness of engineering cost management, and cannot reasonably analyze the price and procurement links of building materials in actual operations in combination with the actual situation. Specifically, it is not reasonable and scientific in terms of material procurement and material procurement. Many units only focus on price and quantity, but ignore quality. In addition, there are many other problems, mainly reflected in the low efficiency of resource allocation and poor quality level. Only by achieving effective management can the survival and development of enterprises be better guaranteed. For construction units, they need to strengthen the procurement of building materials to avoid the waste of unqualified materials. Therefore, if you can master a good measurement and pricing method, you can ensure that the overall cost of the construction project can be reasonably controlled. Construction companies should also carry out scientific construction process design and management, and divide and evaluate the construction project as a whole effectively and reasonably according to the actual situation of the project and various related factors. In order to achieve the purpose of comprehensive cost control, cost optimization and efficiency improvement, it is necessary to combine a certain amount of construction data analysis and statistical content and methods. Therefore, for the economic management of a particular region and type of construction, it is necessary to learn and draw on the experience and results of other industries and reasonably transform them

to ensure that relevant engineering projects in my country can maintain a good development momentum during the construction process.

4. Management Strategies

4.1 Overall management of construction projects

In order to achieve better results in the process of construction project management, we need to work harder on the overall project management. Specifically, we can start from the following aspects: (1) Improve design efficiency and planning level. Many construction projects are completed in the design stage. During the design process, it is necessary to ensure that all design requirements are implemented and the intended results are achieved. In this process, designers need to improve their professional level by constantly learning and studying design knowledge. In addition, it is necessary to improve the construction quality by continuously improving the construction organization method to lay a solid foundation for ensuring the final construction effect. (2) Improve production efficiency and management level. In the current construction project management system, many management methods can be realized informatization and intelligence. Therefore, in order to achieve this goal, it is necessary to combine the development and application of information systems. In this way, the entire work process can be more perfect and the process more reasonable. At the same time, we can also strengthen market information feedback in combination with market demand to ensure that the entire management system achieves a more perfect implementation result.

4.2 Fund management

As the main component of building project investment, fund management is of great significance to construction projects. In the process of project implementation, it is necessary to strengthen fund management in accordance with the contract agreement to lay a good foundation for the smooth development of subsequent projects. Therefore, it is necessary to continuously strengthen the management of construction funds and promote the optimal use of funds. In the process of fund management, it is necessary to make good use of fund management tools and provide support for fund management through effective financial management measures. Therefore, it is necessary to strengthen the improvement and application of fund management. Through the management and application of the fund system, a strong guarantee can be provided for the development of the entire construction project. In addition, after the application of the fund system, issues such as investment structure and project progress can be well grasped. Because the budget is the basis of the entire construction investment plan, only by elaborating on these issues in detail can the entire fiscal budget plan be improved. At the same time, if the budget support work is not done well, there will be no effective control of the relevant budget expenditure amount and fund proportion. Therefore, it is necessary to implement effective support work for the project budget in order to reduce the amount of fund budget expenditure and the proportion of budget expenditure.

4.3 Construction project budget management

The traditional method of budget management for construction projects is usually to calculate and compile based on actual costs. However, this can easily lead to inaccurate cost accounting and cause unnecessary losses to construction companies. Therefore, the existing engineering statistics method should be actively changed, and reasonable construction project budget management measures should be formulated according to actual conditions. According to the requirements of national laws and regulations, strict review should be conducted on construction project-related work. Therefore, it is necessary to conduct comprehensive training and guidance on construction project-related staff, and reasonably manage the project budget work according to actual conditions. In addition, the requirements of the state on the project budget review mechanism should be strictly implemented. And in actual operation, the state and enterprises should actively promote the improvement of the project budget review mechanism. At the same time, it is also necessary to strictly implement the relevant national laws and regulations and the clear provisions of departmental documents, and effectively improve the bidding and tendering work of construction projects and contract signing and other relevant laws and regulations to strengthen the relevant contract approval work mechanism and legal and regulatory requirements. At the same time, the implementation and efficiency of the contract signing between the construction unit and the construction unit should be strengthened to ensure the effective promotion and implementation of the market competition development in the construction industry. Therefore, in the actual

application process, effective investigation, research and analysis should be carried out on the actual situation of the construction market, and scientific evaluation and correction should be carried out in a timely and accurate manner to provide a good basis and support for the budget management of construction projects.

5. Development Trends

After experiencing rapid development, China's economy and society have undergone a series of changes. On the road of China's economic development, China will continue to increase its construction efforts and gradually achieve sustainable development. The country has put forward a series of policies and guidelines for the construction industry and implemented them into specific measures. Different local governments and construction projects need to formulate corresponding project management methods and gradually implement them in place. Lay a good foundation for construction companies to carry out project economic management. With the rapid development of science and technology, higher requirements have been put forward for engineering management. Engineering economic management is also constantly improving technology and methods to meet the needs of project construction and development. With the in-depth implementation of engineering economic management, enterprises can effectively improve economic benefits. Improving the level of project management and increasing the rate of return on investment can further reduce engineering costs. For construction companies, they should improve the construction quality management system, improve the material supply system, and improve the quality level of project construction, so as to ensure the improvement of engineering economic benefits.

6. Summary

At present, the scale of China's construction industry continues to expand, and the competition between the corresponding construction units and participating units is also intensifying. As a key link in construction projects, there are large differences in the application of economic management concepts between relevant construction units and participating units. It is necessary to strengthen the innovative application of working methods and means related to project management to improve the core competitiveness of construction units. In this regard, relevant construction units should continuously upgrade and optimize projects to adapt to the construction standards and requirements under the new situation. With the deepening of economic system reform, the engineering economic management model also needs to be continuously improved in practice to ensure that the relevant links can effectively improve the overall cost control level of construction units. Relevant functional departments should explore and innovate new concepts and methods of engineering economic management according to the specific requirements of economic system reform under the new situation, so as to better promote the improvement of engineering construction level and efficiency.

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