

Opinions on Measures for Strengthening Project Quality Supervision in Construction Management

Lili Xiao
Xi'an Fanyi University
Xi'an, China

Abstract—During the construction of a building, the quality of the building is directly affected by the effect of supervision carried out. Therefore, the construction enterprises need to actively carry out supervision on the quality of the building projects to a detailed and sound extent. As construction project has an extensive supervision work involving a wide range, it is difficult to carry out the supervision work. At present, the supervision on construction is at not that high level and has many intervention factors. As a result, the supervision on construction has been greatly hindered. Therefore, the supervisors and management personnel need to analyze the problems existing in the work and take effective measures to strengthen quality supervision so as to guarantee the quality of the construction project.

Keywords—*construction management; engineering quality; regulatory measures*

I. INTRODUCTION

Nowadays, China is paying more and more attention to the quality of construction project. However, in the actual construction process of project, there will be quality problems of whichever nature so that enterprises engaged in engineering construction were seriously affected in development. Therefore, it is necessary to strengthen the quality management on construction projects so that the quality of construction projects can be effectively guaranteed. In the process of construction management, the strengthening of quality management on the project should be involved in the whole process of construction of the construction project. The quality supervision should be carried out at all construction stages of the construction project so as to increase the safety indicator in construction of the construction project and further effectively guarantee the project quality. Thereby, it is necessary to know about the status quo of quality supervision in relevant construction project and actively explore related regulatory measures.

II. STATUS QUO OF SUPERVISION ON PROJECT QUALITY

A. Supervision Personnel Lack Consciousness of Good Quality

The consciousness of quality directly affects the quality supervision on construction projects. At present, the personnel responsible for supervising the quality of construction project lack quality consciousness, so that the

quality of construction project cannot be effectively guaranteed. Leaders responsible for management of the construction project lack paying attention to the quality of supervision personnel very much and cannot strictly require and supervise and urge such personnel to build up quality consciousness [1]. If the leaders and the supervisors lack quality consciousness very much, the construction project quality supervision effect may be seriously affected. Therefore, it is difficult to obtain effective guarantees for quality of construction project.

B. Lacking a Sound Project Quality Supervision System

In the construction of construction project, it is usually very easy to have quality problems in the process of building construction. A few enterprises engaged in construction project have made deepened analysis and scientific research on the quality of construction project and established quality supervision system based on the management structure of construction project in effective combination with experience of quality supervision personnel of construction project. The quality supervision mechanism of this kind of construction project is very targeted and detailed. However, such system seriously is seriously inadaptable to the quality supervision state of construction project and shows much lagged characteristics.

C. Lacking Clear Division of Quality Supervision Responsibilities

When conducting quality management on construction project and supervision on project quality, there is a lack of detailed division of responsibilities, it is difficult to effectively supervise the quality of the project and the project quality supervision effect will also be seriously affected. Currently, most enterprises engaged in engineering construction have many small organizations to make supervision management on quality of project under their construction. But the number of such organizations is very small so that subordinate bodies of construction project quality supervision department is very complicated, it is very easy to cause the construction project quality supervision very complicated and cause the supervision responsibility puts the cart before the horse.

III. ANALYSIS OF PROJECT QUALITY SUPERVISION CONTENT

A. Construction Personnel

In construction of construction project, construction personnel are very important factors in the construction project, are important participants in the construction and decide the quality of the construction project. The supervision on construction project quality plays a key role in conducting management on construction personnel of the construction project [2]. So, building construction enterprises should pay attention to management on construction personnel. For example, before construction of a construction project, the construction company needs to arrange the construction personnel to take part in regular training, so that construction personnel can effectively improve the construction level and build up the consciousness of safety construction; then, the construction company needs to take the construction plan as a standard, give rational instruction to construction personnel. When constructing the construction project, the project management personnel should reasonably guide the construction personnel to complete the project with high quality.

B. Construction Equipment

The construction of construction project is inseparable from using equipment. In such construction, using modern construction equipment can effectively improve application efficiency and level of such equipment to enable the smooth construction of the project. Before carrying out the construction project, the construction personnel need to check the quality of the mechanical equipment in service, so that the equipment can work orderly and normally and better serve the construction of the construction project. In addition, building construction enterprises need to strengthen the extent of management on construction equipment, regularly check the construction equipment in use, timely discover the existing problems and make maintenance in time in order to prolong the service life of the equipment and effectively improve the construction efficiency.

C. Construction Materials

Construction materials are the most critical part in the construction of construction project. It is the basic work of a project. The quality of construction materials may directly affect the quality of construction project and promote getting the construction quality effectively improved. The construction personnel of the construction project need to strictly control the quality of construction materials. Quality of construction material is very important for selecting, purchasing and applying such materials and thus it is needed to strengthen the extent of quality management [3]. In addition, when making supervision and management on the project quality, relevant workers also need to make a rigorous investigation on the suppliers and rigorously check the construction materials. Only after all items are qualified can it be allowed to make acceptance.

IV. SPECIFIC COUNTERMEASURES FOR PROJECT QUALITY SUPERVISION

A. Getting the Quality of Construction Materials Under Control

There are many factors that may affect the quality of a construction project. Wherein, the most basic factor is the quality of construction materials. Therefore, construction materials directly affect the quality of the project. The construction unit needs to get the quality of construction materials under good control so that the quality of construction materials in use meets the requirement in relevant standard. Hence, it is needed to pay more attention to purchasing and entry and storage of construction materials so as to effectively improve the quality of construction materials for building project. The procurement level and comprehensive quality of construction materials procurement personnel need to be extremely high. Only in this way can it be available to judge the quality of the construction materials purchased. Therefore, it is necessary to keep the purchased construction materials consistent with the standards of construction project so as to guarantee the quality of construction project and avoid construction enterprise from subjecting to economic loss. At the same time, technical personnel need to strictly check the quality of construction materials and timely change any construction material found disqualified to provide an effective guarantee for the safety and quality of construction project [4]. In addition, the construction enterprise needs to establish an inspection system to ensure the accuracy of the inspection result and record and check the source of supply of any construction material found disqualified with the standards of construction project and timely report to the superior leader and then terminate the cooperation with the corresponding manufacturer.

B. Making Clear the Supervision Responsibilities

Many management departments are involved in the quality supervision of construction project in China and are jointly responsible for making quality supervision on construction projects. Therefore, the construction enterprise needs to pay attention to the work responsibility of each department. It is necessary to not only clarify the department's job responsibilities but also pay attention to the coordination of the department's job responsibilities, so that all departments in the enterprise can complement and coordinate with each other, clearly sort out the work processes of each department in the enterprise, promptly find the problems in the supervision work, effectively put into practice the project quality supervision system, refine the responsibilities of workers and avoid mutually making excuses for its work..

C. Establishing a Sound Project Quality Supervision System

When supervising the quality of construction project, construction enterprise needs to establish a quality supervision mechanism as soon as possible and take actual situation in the construction process as the basis to perfect

the project quality supervision mechanism, regularly make exchange activities to make detailed analysis on shortcomings in the quality supervision system of construction project. Only by formulating a quality supervision mechanism consistent with the construction project can it be available to effectively improve the construction efficiency of construction project [5]. At the same time, the quality supervision department of the construction project needs to summarize and sort out the quality problems and safety accidents appeared in the process of the construction, formulate the content of the quality supervision system and prepare for early stage of the construction project and make emergency measures to effectively deal with what happened during the construction process.

D. Realizing Information Supervision

When supervising the quality of construction projects, it is necessary to provide quality supervision workers with relevant skill training and cultivate their quality and safety consciousness. Those who want to formally work on this post must pass relevant evaluation. At the same time, construction enterprise needs to establish an evaluation system. Quality supervision workers must make quality supervision on the basis of relevant standards and norms, and then get the working performance and achievement of the supervision personnel effectively linked together to further effectively improve the enthusiasm of quality supervision workers in the work [6]. In addition, enterprises should effectively improve the quality supervision on construction project, use information management method to ensure the quality of the construction project, and then establish a computer supervision mechanism, perfect the information supervision mechanism, collect and sort out and make summary on quality information of construction project, use computer to make analysis on the risks in quality supervision of construction project and then take effective measure to deal with the risks.

V. CONCLUSION

All in all, during the construction of a building, the quality of the building is directly affected by the effect of supervision carried out. Therefore, the construction enterprises need to actively carry out supervision on the quality of the building projects to a detailed and sound extent. It is necessary to strengthen the quality management on construction projects so that the quality of construction projects can be effectively guaranteed. In the process of construction management, the strengthening of quality management on the project should be involved in the whole process of construction of the construction project. The quality supervision should be carried out at all construction stages of the construction project so as to increase the safety indicator in construction of the construction project and further effectively guarantee the project quality.

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