

Current Situation and Countermeasures of Water Conservancy Construction Quality Management

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Abstract: The quality management level of water conservancy construction determines the success or failure of water conservancy projects and the improvement of the competitiveness of enterprises to a certain extent. The cause of water conservancy projects in China is booming with the needs of social and economic development, but with the rapid development of the industry, there are many hidden dangers in the quality management of water conservancy construction. Water conservancy construction management plays a role in ensuring the normal operation of water conservancy construction, and the livelihood of the people is also affected by the normal operation of water conservancy construction to a certain extent. This paper mainly analyzes the corresponding measures through the problems existing in the current water conservancy construction management, so as to provide a reference basis for the water conservancy construction management.

Keywords: water conservancy engineering; quality management; current situation; countermeasures; management order

1 Introduction

With the continuous development of China's social economy, water conservancy projects, as the infrastructure of water conservancy construction, are constantly keeping pace with The Times, and the quality of water conservancy projects is also constantly improving. However, at the same time of development, we should constantly realize that no matter how large-scale the construction project of water conservancy project management, there are many problems, which need to be solved urgently.

2 the importance of strengthening water conservancy construction management

The quality of water conservancy projects directly reflects the level of China's water conservancy engineering technology, is also an embodiment of the national economic level, is an important symbol of China's science and technology. Because water conservancy projects generally involve a wide range of construction areas, the process is relatively complex, affected by factors such as drawing design, material control, different geological topography, hydrology and meteorology, construction operation methods and supervision system, will have a certain impact on the construction quality of the whole water conservancy project. The quality of water conservancy project directly affects the use benefit and service life of water conservancy project in the later period, light reconstruction or maintenance will produce, large amount of economic loss; serious accident, will be a serious threat to China's water conservancy projects and people's life and property [1]. Therefore, water conservancy projects must strengthen the management of water conservancy construction to ensure the construction quality. If, after the completion of the project, the quality problems are found, and then to remedy them, it is bound to cause great economic losses. Therefore, it is particularly important to strengthen the construction management of water conservancy projects.

3. Problems in water conservancy construction management

3.1 Lack of construction personnel management

At present, the common problem in China's water conservancy construction projects is that the professional quality of the construction personnel is not high. Many construction enterprises still retain the traditional management system and system, relax the review of the professional quality of construction personnel, resulting in many construction personnel on the construction cost, construction progress and construction quality management and other lack of serious awareness [2]. The professional quality of the construction personnel is directly related to the quality of water conservancy construction management, which brings a great negative impact

on the whole project. It not only reduces the quality of water conservancy construction management, but also increases the cost to the construction enterprises. At the same time, some construction enterprises do not analyze the technology that each construction personnel is good at. Sometimes, there are personnel who are good at management in front of the construction, and those who are good at construction technology are put in the management, resulting in the construction personnel can not make the best use of their talents, the employment structure is chaotic, and pull down the quality level of water conservancy construction management.

3.2 Lack of construction site management

As one of the important contents of water conservancy project quality, the construction site management is of great significance to the whole water conservancy construction management. At present, many construction enterprises are facing the construction site management is extremely irregular, many site construction links tend to be formalized, the lack of site construction supervision and scientific nature. At the same time, due to the lack of professional quality, the site construction management personnel to the problems in the site construction management can not make the right decision, the site supervision and organization work cannot implement to the specific location, lead to water conservancy construction site management work serious lag, and part of the construction personnel exist fluky psychology, work with, no will focus in the first [3].

3.3 Lack of construction schedule management

For the construction progress, many enterprises in order to save costs, there is the phenomenon of catching up with the progress, which has a serious impact on the quality problems of water conservancy construction. The reason is divided into the following two points: first, the rapid development of economic market, the competition in all walks of life is becoming more and more intense, water conservancy construction enterprises to get the chance of survival, must put its

economic benefits first, so appear part of the construction enterprise after progress, but at the same time, the construction progress will undoubtedly have a negative impact on construction quality, slow work, more haste, less speed, these words is if blindly pursue progress, will reduce the construction quality of the project [4]. In addition, part of the construction enterprise construction personnel lack of management, in order to their own desires, they privately speed up the construction progress, has a certain degree of impact on the construction quality.

3.4 Lack of construction supervision and management

The lack of construction management and supervision is mainly reflected in the irregular supervision market and the lack of supervision strength. The supervision market is not standardized, and the supervision work cannot be implemented, the professional quality of the supervision unit is not high, and the sense of responsibility is not enough, resulting in the scope of the supervision work cannot cover the whole construction project. In addition, the supervision work lacks effective supervision methods and means, resulting in the low efficiency of the supervision work. Insufficient supervision, reflected in the relevant supervision laws and regulations are not sound, quality problems when no effective means to deal with, punishment measures also lack of implementation, and some supervision personnel neglect supervision work, detection methods lag behind the modern new technology, lead to test results authority is not high for supervision work often happen a lot of can not deal with.

4 Specific countermeasures to strengthen the construction quality management of water conservancy projects in China

Water conservancy project and ordinary construction project has the essential difference, it belongs to China's people's livelihood infrastructure engineering, in the face of excessive population growth and the present situation of water resources utilization is not high, and the deteriorating ecological environment and the serious situation of energy depletion, to improve water conservancy project construction

quality is not only very important for construction projects, and for the national economy and people's livelihood has strategic significance. The factors affecting the construction quality management include the factors of human quality and the factors of the management system. Starting from the needs of the development of the new era, the author takes the professional quality of the management system as the starting point, and puts forward specific countermeasures to improve the construction quality management level of water conservancy projects [5].

4.1 Innovate the construction management system of water conservancy projects

To solve the problem of construction management system is the source to ensure the construction quality of water conservancy projects. In order to improve the safety and quality of water conservancy project construction, it is necessary to reconstruct the market management order of water conservancy project construction and create a stable competitive market environment.

(1) As a construction unit, it shall strictly implement the construction and management standards of water conservancy projects. To strengthen the construction process of the various subcontracting and subcontracting behavior, the project supervision personnel should consciously fulfill the obligation of supervision.

(2) The government should change the traditional focus on administrative intervention and respect and play the role of market regulation.

(3) Enhance the moral and legal concept of the project leader, and carry out regular legal training activities for the project leader, so that the project leader can establish a high sense of social responsibility and legal awareness, and actively undertake the responsibility of project quality control.

(4) Clearly delineate and improve the quality coordination and standardization system of water conservancy projects, strictly implement the responsibility investigation of construction project legal person, project bidding, project site supervision and contract management system, and further innovate the construction

management and supervision system of water conservancy projects. It should be emphasized that to strengthen the energy efficiency of the construction management process, we should stabilize the market and avoid any unnecessary impact reaction during the qualification, contractor and project management system in the future; secondly, strictly investigate and deal with illegal behaviors such as borrowing and selling licenses or qualification attachment, try to maximize the energy efficiency of products and equipment in the building materials market, avoid all kinds of shoddy and genuine contracting on the construction site, and ensure the quality and specification of the incoming materials without any defects, and ensure the material security work of the construction project [6].

4.2 Improve the means of on-site construction safety and quality testing

If we want to ensure that the level of construction quality management of water conservancy projects rises to a higher level, so as to ensure the realization of the final quality and use of the construction project, it is not only necessary to check and supervise the common internal common technology and construction organization, but also to use modern testing technology to deploy various structural units. To improve the quality inspection of the site, the site must be as follows: First, it can provide accurate data for the construction process of the water conservancy project, and timely use the accurate technology to check the safety hidden dangers in the construction process one by one, and the hidden dangers should be timely remedial and rectification. Secondly, the quality of the test should effectively enter the site, deep into the site, the site of the construction site materials inspection, to ensure that the immediate use of construction materials can meet the standard, to avoid the safety risks and project quality problems caused by the material quality does not meet the standard. To pay special attention to the quality sampling process, this detection method has the characteristics of strong assault, flexible, can minimize the artificial shoddy, fake behavior, for the guarantee of construction quality to increase the weight [7]. In general, the quality inspection workers of water conservancy projects should understand their responsibilities, and their work is related to the

energy efficiency of water conservancy projects. Therefore, it is suggested that quality inspection personnel should regularly test construction materials on a regular basis. The increase of detection frequency means that the guarantee of construction quality is more secure.

4.3 Improve the professional skills and responsibility awareness of the construction personnel

The root cause of the quality of water conservancy project is the dereliction of duty of the construction personnel, and to fundamentally solve the problem of the construction personnel, it is necessary to strengthen the training of professional skills for the construction personnel, and regularly carry out continuing education activities for the professional ethics of this group. Now have to do is to put the relevant training activities into the focus of the daily assessment, through modern education technology, the engineering quality caused by serious accident to show, can be simulation animation, also can be a video data, let each construction personnel deeply feel their responsibility, realize the importance of water conservancy project quality management [8]. Should be, responsible for the training of the construction personnel training, to the previous construction practice non-standard phenomenon and behavior of summary, and one by one to improve, and formulate a unified construction operation process and guidelines, to ensure that every construction personnel in accordance with the specification rules for construction operation.

4.4 Strengthen the quality management of materials in the project construction

The materials required for the construction of water conservancy projects are the material basis to ensure the construction quality of water conservancy projects, which cannot be replaced by any factor. Once the quality of the construction materials in the construction site, or the materials are not used according to the construction plan, the function of the water conservancy project can not be effectively played. The project construction unit has the obligation to issue the

material quality certificate and acceptance report before the engineering materials enter the site. The personnel responsible for the management of incoming materials shall strictly check the specifications and quality of incoming materials according to the regulations, and accept according to the procedures. Important construction materials should be carried out on site experiments to ensure that the construction raw materials conform to the construction regulations, but also to avoid the safety risks caused by improper use. The preliminary work of water conservancy projects should also be paid full attention to, such as engineering survey and design work. Engineering survey and design is the basis that determines whether the water conservancy project can be constructed normally and the normalization of delivery after the completion of the construction. So before the specific project construction, to the best engineering survey and design work, the key is to improve the professional quality of relevant designers, attaches great importance to the survey and design talent reserve and training, in the process of investigation to strengthen the social responsibility, specific survey work to do rigorous, ensure the construction of water conservancy project construction is scientific and feasibility.

4.5 Training of relevant management personnel in terms of technical quality

It is necessary to strengthen the project construction party must strengthen the skills and quality training of quality management related personnel and strictly assess the content and standards, so that the technical quality and professional skills of quality management staff can be continuously improved, and enhance the awareness of quality management. In order to improve the quality management level in the construction process of water conservancy projects, promote the progress of the project, ensure the quality of the project, achieve safe and civilized construction, and reduce the incidence of project accident. At present, there are many problems in the quality management of small water conservancy projects. The main reason is that the comprehensive quality of the water conservancy personnel at the grass-roots level is not high, and the ability of quality management is still insufficient. In order to fundamentally solve the above problems, all levels and departments must attach

great importance to the construction of professional talents and talents related to water conservancy at the grass-roots level, and do a good job in talent selection and further study in a planned and batch way, so as to adapt to the job needs and market standards to the greatest extent.

5 Conclusion

Construction management in water conservancy project is an important link, the quality of construction management directly determines the final quality of the water conservancy project, and in today's rapid development of, improve the quality of construction management is imminent, for common problems and timely discovery and make correct treatment, to ensure the quality of water conservancy construction, to follow the pace of the current social development.

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