

# Municipal Construction Engineering Quality and Construction Technology Management Path

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**Abstract:** The promotion of economic level will change people's production and living needs, but also enhance the development of urbanization requirements. As an important planning project in urbanization construction, the quality of municipal construction and construction management standards directly affect the overall quality of urbanization construction. In this paper, the municipal construction engineering quality and construction technology management path to explore, hoping to effectively enhance the level of urbanization construction.

**Keywords:** Municipal Building; Engineering quality; Construction technology; Management path; Exploration

## 1. Introduction

The increasing demand of people's living environment has driven the development of the urbanized municipal construction industry, and the scale of municipal construction projects is getting larger and larger, many practical construction quality problems appear in the implementation process of the project Project <sup>[1]</sup>. Only by strengthening the quality management and construction technology management of municipal engineering, can we promote the effectiveness of municipal engineering construction and steadily develop modern urban construction.

## 2. Research on Management Path of Municipal Construction Project Quality

### 2.1 Implementing Strict Quality Control over Materials

The quality of building materials is the necessary precondition to decide the orderly development of municipal construction engineering. The implementation of strict material quality control is also a reliable guarantee for the overall quality of municipal construction engineering <sup>[2]</sup>. In the whole process of construction of



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municipal building engineering, the material quality inspection and management in strict accordance with construction standards can directly affect the effectiveness of municipal building construction. In order to meet the requirement of quality standard of municipal construction project in the new era, we must carry out strict material screening management and quality control.

In order to carry out strict material quality control in municipal construction engineering, we should pay attention to the quality level of materials in construction. Therefore, in the process of purchasing building materials, the relevant construction personnel should not only pay attention to the resource qualifications of the building materials suppliers, but also pay attention to the quality and performance of the building materials in the transportation of the materials, as well as in the construction operation of municipal projects, regularly carry out quality sampling inspection of construction materials to ensure the quality and storage of construction materials used in construction. The implementation of strict material screening management can effectively ensure the orderly implementation of municipal construction projects. The effective management of material quality inspection is beneficial to the development of construction problems in the process of construction, and to take prompt and effective measures to avoid unnecessary construction material quality problems.

## 2.2 Choosing the Optimized Construction Scheme

The design of the construction scheme of the building project provides the scientific reference for the construction operation of the municipal building. The construction planning in the design scheme also directly affects the construction level of the whole municipal building project<sup>[4]</sup>. Choosing the optimized construction scheme can avoid the construction quality problems on the premise of ensuring the construction safety. The optimized construction scheme not only reduces the excessive waste of the project cost, but also ensures the scientific and energy efficiency of the engi-

neering technology operation.

Many construction quality problems can not be found before the construction starts, and once the construction plan is out of line with the actual construction needs, it will have a strong negative impact on the overall construction quality. Choosing the optimized construction scheme also facilitates the overall management of the construction project, enhances the feasibility of the project construction, and can not only reliably achieve the construction standard of the municipal construction project, it can also meet the needs of the layout and planning of the urbanization construction, so the municipal construction project must select a scientific and reasonable design to carry out the construction operation<sup>[5]</sup>. Choosing optimal construction scheme in engineering construction can analyze the actual conditions and operation techniques of construction more comprehensively, and arrange the solutions to various technical and quality problems in the process of construction accurately, the optimized construction scheme can also make effective arrangement for the quality management of the building materials, and control the quality of the municipal construction as a whole.

## 2.3 Real-time Project Quality Supervision

The municipal construction project is planned by many different construction links, the project quality supervision carried out in the construction process can reliably guarantee the overall construction quality of the project construction. The safety problem in construction is always the most important problem in project engineering, but in reality, some construction enterprises do not pay attention to the quality level of project engineering, and keep the construction of municipal buildings at the surface, it not only causes the low efficiency of construction technology and quality management, but also causes the excessive waste of construction resources<sup>[6]</sup>. The superficiality of construction projects in construction enterprises is also the main reason for frequent accidents of safety and quality in construction process, and it also has a great nega-

tive impact on the quality level of municipal buildings. Therefore, the real-time construction quality supervision in municipal construction projects can effectively eliminate the hidden dangers of construction safety.

In order to improve the real-time supervision of municipal construction engineering quality, it is necessary to improve the personal comprehensive quality of construction workers. In the construction operation of municipal buildings, because of the difference of the construction site and the construction nature, the construction personnel's work will involve the multidirectional space of water, land and air<sup>[7]</sup>. The construction operation of different work space needs the assistance of different technical equipment to carry out smoothly. The complicated construction operation types not only bring difficulty to the construction of the project, in addition to the construction of municipal construction time and short duration of the special, but also enhance the construction of municipal construction personnel professional literacy standards. In order to meet the needs of municipal construction and carry out real-time quality supervision, not only the construction personnel need to have professional technical operation and safety construction awareness, it also requires the construction personnel to uphold good professional and moral quality.

To carry out real-time engineering quality supervision, to enable construction personnel to carry out construction operations on the premise of safe construction awareness, is conducive to the completion of construction preparation, it can reduce the error rate and unnecessary labor cost in construction operation, and give full play to the active energy efficiency of construction. Therefore, to enhance the construction personnel's personal comprehensive quality and correct construction awareness, is to carry out the implementation of the project quality supervision necessary management measures. Real-time engineering quality supervision not only facilitates the orderly operation of the construction process, but also implements the construction responsibility of the construction person-

nel and ensures the follow-up of the construction process. Also can perfect and perfect the municipal construction project management mechanism, increases to the project quality management dynamics.

### **3. Municipal Construction Technology to Explore the Management Path**

#### **3.1 To Implement the Management of Scientific and Technical Personnel**

The technical personnel is the key core of the municipal construction work, and the implementation of scientific technical personnel management is an inevitable measure to promote the municipal construction. If we can not manage the technical personnel scientifically, we can not effectively avoid the technical problems in the technical management, nor can we organically combine the personnel training with the technical management, it strongly hinders the orderly implementation of municipal construction technology management.

The implementation of scientific management of technical personnel and optimization of the management structure of technical personnel will help to enhance the scientific and effective management of technical personnel<sup>[8]</sup>. To carry out scientific management for technical personnel, technical personnel need to constantly learn and innovate their own professional operation technology, always have a safe and scientific technical concept and implement high-quality technical operation. The implementation of scientific technical personnel management can enable technical personnel to have professional technical principles and high-level professional literacy.

In addition, municipal construction enterprises can carry out scientific management of technical personnel through regular education and training of technical personnel and technical practical training. This kind of management mode can not only improve the individual ability of technical personnel, but also train the comprehensive professional quality of the personnel themselves. The implementation of scientific technical

personnel management in municipal construction project not only increases the efficiency of municipal construction work, but also avoids the occurrence of man-made technical accidents to a large extent.

### 3.2 Adopting Advanced Construction Technology

The content of municipal construction engineering technology management is very complex, with the characteristics of diversification, the use of advanced technology construction technology, can enhance the municipal construction management of data and intelligence, it is helpful to the technical management of municipal construction engineering projects. The adoption of advanced construction technology is an efficient construction measure to innovate, optimize and scientifically develop the municipal construction industry. The use of new science and technology in municipal construction plays an active auxiliary role, effectively ensuring the construction efficiency of the project.

The adoption of advanced construction technology is the premise of scientific project engineering management, and also the key to improve the overall quality of municipal construction engineering. The introduction of innovative technology, but also improve the technical management system of municipal construction projects, more conducive to the realization of effective science and technology management of construction projects. The adoption of advanced construction technology optimizes the technical structure and operation of construction, and improves the execution of construction projects during construction, it can also better handle the technical operation problems in the construction process, and further provides the development space for the scientific and innovative development of municipal buildings.

### 3.3 Operating a Sound Technical Management Mechanism

The rapid progress of social economy has expanded a bigger development platform for the development of municipal construction industry, but because the mar-

ket of municipal construction in our country starts late, there are still some unsound management phenomena in the technical management mechanism of construction project, which result in the technical management loophole of the project and greatly reduce the construction level of municipal construction project. In order to ensure the steady and circular development of the municipal construction industry, we must do a good job in the management of municipal construction technology, in the construction of a sound technical management mechanism.

In order to achieve high quality construction and technical management, scientific technical management must be carried out in order to meet the needs of municipal construction. Running a sound technical management mechanism is the key to the implementation of quality management. In the project, at the same time, the advanced technical experience and technical resources to the municipal construction project management, can be efficient in the construction of municipal construction projects complete technical operations, conducive to the implementation of science and technology application and safety management. A sound technical management mechanism can implement systematic integrated technical management before construction, during engineering work and during acceptance stage, and permeate management into the overall technical operation of municipal construction, it can avoid the technical problems and make the whole process of engineering technical supervision more effective. Perfecting the system of engineering technology management, strictly supervising the technical operation of the whole municipal construction project, systematic technical construction operation can guarantee the orderly development of the construction engineering technical operation, it can effectively deal with the technical operation problems in the construction and reduce the hidden danger of technical safety in the construction process.

## 4. Conclusion

The increasingly prominent quality management problems in the construction of municipal construction projects require construction enterprises to pay attention to the quality and construction technology management of municipal construction projects, and to change the traditional architectural ideas, strengthen the effectiveness of technical quality management as far as possible. It is believed that the implementation of the above management measures can effectively solve the quality problems in municipal construction projects, steadily improve the overall quality of the project, and better promote the innovative and scientific development of urbanization.

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