

The problem and the solution in municipal building construction management

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Abstract: In recent years, with the progress of the society and sustainable development of national economy, to some extent for the stable progress of urbanization construction, as well as the municipal construction engineering scale and quantification of construction and development have created favorable conditions. As an important part of the municipal architectural project, its level and quality of the construction management not only concern the smooth implementation of municipal projects, but also reflects the construction quality and construction level of infrastructure in the whole city. Based on this, this article mainly from the perspective of management discuss the present condition of the construction management of municipal construction projects in China at present stage, probes into a series of suggestions to improve one by one, through the summary of the experience, and the quality of municipal engineering in our country overall construction management.

Keywords: municipal projects, construction management, current status, improvement

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1 Necessity of construction management in municipal construction projects

Different from ordinary construction projects, due to the particularity of its construction characteristics, municipal construction projects should be based on engineering properties, meet the features of publicity, service and others in municipal projects, and contribute to promote economic and social development. As the market construction industry closely related to urban development level, it represents the whole urban modern civilization construction achievements and construction quality, to some extent, it is also a “microcosm” of improvement of people’s living standard. But municipal construction project is a comprehensive and systemic strong engineering type, involves a wide range, complex building types and great technical difficulties, therefore, it is necessary to strengthen the control and research on construction management of municipal construction projects. The quality of construction management to a large extent determines the quality of a municipal construction project is good or bad, as a result, municipal engineering construction management to establish a complete set of safety management mechanism from the several aspects, to improve the professionalism and efficiency in the municipal engineering construction, so as to improve the construction unit construction quality and

construction schedule. In addition, in the construction process of municipal construction projects, the influence of natural conditions and objective factors is great, and the overall implementation of construction management can effectively avoid interference from external factors, for example, climate factors, etc. Therefore, in order to guarantee normal and orderly construction, relevant construction management work should be comprehensively deepened to make municipal construction projects reach stipulated quality.

2 Problems existed in municipal construction management

2.1 Poor construction site management

Usually, municipal engineering construction projects are mostly large-scale projects, and the site construction covers a large area, covering various fields in construction, which often leads to disputes and management loopholes^[1]. First of all, in the aspect of site construction, due to poor implementation of engineering construction supervision the management work is not practical, management often superficial form, letting the site operating personnel not make implementation strictly according to relevant operation standards, which virtually increases the impacts of various safety risk factors on construction personnel in the process of construc-

tion, leading to occurrence of all kinds of safety accidents. Secondly, in terms of electricity of construction, comprehensive electricity standard is lacked at the construction site, persons near the construction site or provisional electricians are employed to supervise electricity safety at the site, due to limitation of professional qualities of the electricity personnel, electricity accidents frequently occur to disturb sequence of engineering construction. In addition, in the aspect of materials procurement, systematically perfect management method makes procurement personnel lack strict and cautious procurement plan, surplus procurement phenomenon often occurs leading to the long time stacking and a serious waste of materials.

2.2 The construction personnel lack comprehensive professional qualities

Generally speaking, the professional qualities of the construction personnel determine the overall quality and construction progress of the whole municipal project^[2]. The key to the success of municipal engineering construction lies in the qualities of personnel. But from the current situation of municipal engineering staffing at the present stage in China, due to increase of project quantities, the construction unit eases the personnel employment standard, permits many non-professional personnel enter the construction site, and most of the construction personnel are from the remote and backward rural areas, who has not received a system of exercise and training, although they make personal contribution to the engineering construction, they lack the sense of construction safety and construction quality, do not make operation strictly according to relevant construction standard, which brings great hidden safety troubles, increases occurrence rate of safety risks. Meanwhile, due to the feature of slack personnel organization, there is big staff mobility, which is adverse to accumulation of experience, construction only relying on personal construction habit is easy to cause quality issues of municipal projects occurred during the process of actual construction, and safety and stability of the construction site are hard to get effective guarantee.

2.3 Poor sense of quality in construction unit

In China, municipal project belongs to one part of national infrastructure construction, in the process of construction, the governmental institutions play the dominant role, capital investment for the projects is mainly borne by the governments, which provide powerful capital support, during the process of facing investigation by the superior departments, perfunctory negative attitude is often adopted, the project construction period is over pursued, and then the project quality issues are put aside. At the same time, most construction unit are restricted by construction technique level, lack analysis on structure safety of the projects, for instance, drainage project, road project, etc., which result that there are constant new issues and new conflicts occurred during the process of using in the later phase, it is not only ad-

verse to effectiveness and stability of urban operation, but also generates serious resources and cost waste.

3 Solutions for issues existed in municipal construction management

3.1 Enhance sense of construction safety management of municipal projects

For a long time, "safe construction" is one of the everlasting important topics of municipal projects, safe and stable construction environment does not only need construction techniques as support, but also needs to enhance the sense of personal safety and sense of the quality of construction personnel^[3]. First of all, as the main practitioners and policy makers in the process of construction, the construction unit should adopt the mode of personnel training on a regular basis to intensify basic construction techniques and theoretical knowledge so as to ensure that the construction personnel master the latest construction techniques and construction process. At the same time, in the process of personnel training, in view of the different natures of work positions, training contents and training efforts are also different, locating and making up the deficiencies should be paid much attention to, construction techniques and knowledge level of the construction personnel should be comprehensively improved to enhance relevant emergency handling capacity of the construction personnel, they should grasp the safety hidden danger repeatedly occurred in the key part combining the actual construction site, and relevant personnel should be supervised to adopt relevant solutions. In addition, the relevant department can organize to hold technique training work, or organize relevant techniques discussion activities to promote personnel to enhance communication with others, exchange construction experience in the activities to make up their deficiencies, truly improve their personal professional quality and lay a solid basis for the production quality of municipal projects.

3.2 Strengthen management, adopt responsibility system and reward system

As many people are very passive in the management, which will greatly impact development of management work. Adoption of responsibility system means specific division of functions and responsibilities to every person, which can confirm the reward and punishment based on work engagement of every person. This type of competitive management means can greatly boost enthusiasm of management staff and development of management work^[4].

3.3 Intensify supervision function of municipal project supervision units

In order to further improve municipal construction engineering construction quality, besides strengthening management,

enhancing sense of management, supervision intensity and supervision scope of supervision units should also be expanded to further enhance supervision management work, gradually establish and perfect safe production rules and regulations based on safe production, and lay solid basis for effective safety supervision work of municipal construction projects^[4]. Meanwhile, as important part of supervision work, the supervision personnel should constantly improve their professional quality, specify their position duties, fully use the rights granted by the supervision work, and guarantee no occurrence of quality issues in every step of the construction process of municipal architectural project with meticulous work attitude. In addition, in the construction process of municipal architectural projects, the supervision department should take progress situation and quality of the projects into consideration, fully apply relevant laws and regulations, conduct powerful adjustment and control of the project progress, cost, quality and contract management. Every relevant unit should enhance daily communication, conduct trans-positional consideration, highlight problem orientations, and positively coordinate solving of issues in the engineering projects and promotion of the projects. At last, in order to normalize operation action of project supervision, strengthen construction of supervision team, training activities of supervision business should be organized in the municipal construction projects, it is not only beneficial to improve personal business quality of the supervision personnel, but also promote overall improvement of supervision service level.

4 Conclusions

As starting point and foothold of all the work of municipal construction projects, construction management still has many deficiencies in the aspect of management level at present, and needs constantly improvement. Furthermore,

due to influence of its own construction features of municipal construction projects, the management work is hard to conduct in the process of actual construction. Regarding to this situation, relevant management department needs to further enhance construction safety management sense of municipal projects, enhance construction safety management sense of municipal construction projects, and complete and perfect emergency management system to improve construction management level and management quality of municipal construction projects.

Conflict of Interest Declaration

No conflict of interest was reported by the authors.

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