

Effects of the Quality Construction of Public Construction in Taiwan to Implementation Three Levels Quality Management Institution

Authors : Hsin-Hung Lai, Wei Lo

Abstract : Whether it is in virtue or vice for a construction quality of public construction project, it is one of the important indicators for national economic development and overall construction, the impact on the quality of national life is very deep. In recent years, a number of scandal of public construction project occurred, the requirements of the government agencies and the public require the quality of construction of public construction project are getting stricter than ever, the three-level public construction project construction quality of quality control system implemented by the government has a profound impact. This study mainly aggregated the evolution of ISO 9000 quality control system, the difference between the practice of implementing management of construction quality by many countries and three-level quality control of our country, so we explored and found that almost all projects of enhancing construction quality are dominated by civil organizations in foreign countries, whereas, it is induced by the national power in our country and develop our three-level quality control system and audit mechanism based on IOS system and implement the works by legislation, we also explored its enhancement and relevance with construction quality of public construction project that are intervened by such system and national power, and it really presents the effectiveness of construction quality been enhanced by the audited result. The three-level quality control system of our country to promote the policy of public construction project is almost same with the quality control system of many developed countries; however our country mainly implements such system on public construction project only, we promote the three-level quality control system is for enhancing the quality of public construction project, for establishing effective quality management system, so as to urge, correct and prevent the defects of quality management by manufacturers, whereas, those developed countries is comprehensively promoting (both public construction project and civil construction) such system. Therefore, this study is to explore the scope for public construction project only; the most important is the quality recognition by the executor, either good quality or deterioration is not a single event, there is a certain procedure extends from the demand and feasibility analysis, design, tendering, contracting, construction performance, inspection, continuous improvement, completion and acceptance, transferring and meeting the needs of the users, all of mentioned above have a causal relationship and it is a systemic problems. So the best construction quality would be manufactured and managed by reasonable cost if it is by extensive thinking and be preventive. We aggregated the implemented results in the past 10 years (2005 to 2015), the audited results of both in central units and local ones were slightly increased in A-grade while those listed in B-grade were decreased, although the levels were not evidently upgraded, yet, such result presents that the construction quality of concept of manufacturers are improving, and the construction quality has been established in the design stage, thus it is relatively beneficial to the enhancement of construction quality of overall public construction project.

Keywords : ISO 9000, three-level quality control system, audit and review mechanism for construction implementation, quality of construction implementation

Conference Title : ICSEEE 2016 : International Conference on Sustainable Energy and Environmental Engineering

Conference Location : Singapore, Singapore

Conference Dates : September 08-09, 2016