ABSTRACT

The basic objective of construction management is the delivery of a completed project in accordance with the required specification, within the time frame and budget cost and at the same time achieve a high safety record. Traditional methods of construction management adopt a fragmented approach in the pursuit of this objective by addressing each facet of the objective separately and independently.

The "Total Quantity Control" concept in construction management presents a comprehensive and unified approach in the attainment of the said goals. It is essentially an embodiment of two fundamental approaches namely; an underlying philosophy based on the Plan-Do-Check-Action principle and, in the methodology and tools that are at the disposal of management in the planning, execution, monitoring and controlling functions of construction management.

This dissertation attempts to study the introduction of the "Total Quality Control" concept in public housing construction projects in Singapore. The focus has been in the application of this concept in areas of construction management planning, production control, quality control, time schedule control and safety control.

An assessment has been made of the efficacy of this new approach in the context of the Singapore construction environment.