

THE EFFECT OF CONSTRAINTS IN COST AND SCHEDULE CONTROL BY USING PRIMAVERA: A COMMERCIAL BUILDING PROJECT CASE STUDY

KIRAN M SANNAKKI¹, T.M.MOHAN KUMAR² & ASHOK KUMAR³

¹Department of Civil Engineering, Nagarjuna College of Engineering, Karnataka, India

²Professor, Department of Civil Engineering, Nagarjuna College of Engineering, Karnataka, India

³Synergy School of Business Skills, Karnataka, India

ABSTRACT

Constraints in any project are evitable during planning, scheduling and tracking procedures. Constraints can be with respect to procurement, cash flow, skilled resource availability, contractors and sub-contractors etc. Constraints are conditions which are generally associated with activities and its relationships directly or with respect to the start and end dates. This paper presents a case study from the construction industry. Multiple semi-structured interviews and project documents have been used as sources of data. TOC Thinking Process logic tools and mainly the site knowledge were used to identify the core constraints that are affecting the progress of the cost.

KEYWORDS: Constraints, Commercial Project, Theory of Constraint, Flexible and Non-Flexible Constraints, Construction, Construction Management