

DOI: <https://doi.org/10.5281/zenodo.7140117>

THE RECIPROCAL EFFECTS OF TRIPLE CONSTRAINTS ON INFRASTRUCTURE PROJECTS: STAKEHOLDER'S REFLECTION IN VOLATILE SITUATIONS

Maxhobandile Ndamase & Yusuf Lukman

ABSTRACT

Adequate management of the triple constraints that majorly affect infrastructure project is at the forefront of all the variables that determine success and failure. Organisation must handle with care the triple constraints to achieve success in their projects from initiation to commissioning. Subsequently, failure to maintain balance in dealing with the constraints will not only result in delays but can immensely contribute to failure of the project. Preliminary investigation revealed that many projects have collapsed and some abandoned in the Eastern cape in South Africa due to managers inability to manage these variables. This study sought to establish the reciprocal effects of the triple constraints on infrastructure projects. The qualitative research method was used by the researchers. The study circumvents on three (3) distinct infrastructure projects in the in land of Eastern cape, Purposive sampling was used and interviews schedule was employed to collect data from the selected sample. The findings revealed that triple constraints (costs, time, and scope) as the main pillar of any projects, are pivotal in determining project success and must be heeded, studied, and managed aptly during planning and implementation phase of a project. Failure to pertinently maintain equilibrium in this regards can lead to failure in projects, even if other segments are on the highest standing. In a nutshell, the project team must comprehend and control these constraints to avoid/minimise misfortunes.

Keywords: Triple constraints, Infrastructure Project, Time Management, Cost Management, and scope Management.