

INTEGRATING 4D-BIM WITH PRIMAVERA SOFTWARE FOR MONITORING METRO RAIL PROJECT

P. Lokitha ¹

¹PG Student, 1 Department of Civil Engineering,
Meenakshi Sundararajan Engineering College, Kodambakkam, Chennai, Tamil Nadu, India

More than 26 metro rail projects are now underway in India at various stages of planning, building, and operation. This study's primary goal is to pinpoint the significant elements that cause delays in the commissioning of metro rail projects in India. The critical path technique in Primavera, places a strong emphasis on updating the network to monitor progress and spot delays. New challenges concerning their use and viability in these Indian metro-rail projects come up when integrated digital delivery systems are adopted more widely around the globe in infrastructure projects. BIM displays the precise geometrical and semantic details of the structure. Schedules and drawings are linked together using software like Navisworks. The integration is crucial for contractors who want to show owners that they understand how to complete the project by simulating construction and using 4D scheduling. This concept also contributes to the confirmation that the planned job can be finished in the allocated period. According to the study's findings, this approach has several downsides, particularly when used in the construction industry for data management, data sharing, and data integration. Also, the integration of BIM in Primavera is examined, and various solutions to the shortcomings of the construction programme are presented.

Keywords: BIM, Primavera