

PROJECT PERFORMANCE ANALYSIS USING EARNED VALUE ANALYSIS

BIRAJDAR AJINKYA S¹ & VIJAY K²

¹Research Scholar, Department of Civil Engineering, NCET, Bangalore, Karnataka, India

²Associate Professor, Department of Civil Engineering, NCET, Bangalore, Karnataka, India

ABSTRACT

The construction industry is the largest and rapidly growing industry in the country. And the occurrence of uncertainties is an obstacle in the completion of the project. Due to uncertainties, there are cost overruns and schedule overruns. There is a need for a process which can tackle these problems and provide an overview of project performance and future forecasts. Earned Value Management is one such method which is able to provide accurate forecasts of project performance. Earned Value goes one step ahead in future and examines actual achievements and compares it with the planned schedule. This helps managers an early insight into potential risk areas with a clear picture. This study emphasis on performance of project using Earned Value Analysis (EVA) with a case study. EVA parameters are calculated using Primavera software. All the EVA terminologies and histograms and cost curves are included. It also covers the future forecast of the project in terms of cost and time to take corrective measures so that the project is on track.

KEYWORDS: Earned Value, Performance, Forecast, Cost Curves