

MODELLING FOR TIME OVERRUN PREDICTION DUE TO DISPUTES IN HIGHWAY PROJECTS IN INDIA

DHAVAL M. PARIKH¹ & G. J. JOSHI²

¹Executive Director, SAI Consulting Engineers Private Limited, Bodakdev, Ahmedabad, Gujarat, India

²Associate Professor, Department of Civil Engineering, SV National Institute of Technology, Surat, Gujarat, India

ABSTRACT

Indian infrastructure investment in general and highway construction in particular have seen manifold increase in the recent times. This has brought about a paradigm shift in the way in which the highway construction industry has been conducting its business with increased pressure on its stakeholders, namely the employers, the contractors and the consultants for high quality and timely project delivery. Disputes and arbitration has also seen a dramatic rise in past decade or so. Majority of the projects due to several reasons encounter time overrun. This paper presents the study of multi-level break down structure of the claim-causes and its impact on the project time overrun with multiple claim-causes acting simultaneously. It presents the prediction model for predicting time overrun in highway construction contracts in India. It is proposed to use this model for diagnostic as well as predictive tool to understand and possibly mitigate time overrun.

KEYWORDS: Highway Construction, Claims, Causes of Claims, Time Overrun, Prediction Model