



Innovation & Fast Track Construction

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Abstract

Issue of mobility is of the greatest concern across the world and is based on end-user requirement. Fast track implementation and innovative schemes are required. Transport innovation can be categorized as

- Innovations for developing Infrastructure
- Innovations for developing vehicular systems

Projects including different urban context require innovative design/construction technique specific to site requirement and improve mobility. The paper deals with innovative design to reduce cost and time and focuses on technology and knowledge fusions. Use of steel-concrete superstructure has now become de rigueur as highly automated fabrication and transport logistics have improved throughout India. Precast segmental construction has been shown to be not only for glamorous and highly visible urban projects such as flyovers, but also for pedestrian subways, that would go typically unnoticed. Only the innovator knows how the innovation came to be that serves the society by reducing implementation duration and allows greater surface mobility. These are some of the items that are described in this paper.

It also focuses on innovations that include fast track implementation in transportation sector for infrastructure and with a brief on system. Case study/studies are presented to discuss concept, design and construction in improving Indian urban mobility.

Keywords: MRTS, Composite Super Structures, Prestressed concrete - RCC Composite, Steel Concrete Composite Precast segmental construction, Green Transportation.

1 Introduction

The Red Queen in Through the Looking- Glass says, “...it takes all the running you can do, to keep in the same place. If you want to get somewhere else, you must run twice as fast as that!”

The irony in the above is that Lewis Carroll, writing in the Victorian Era, caught what would happen more than a century later, particularly with

respect to intra-urban transport in the developing world. We just cannot build transport facilities at the pace at which traffic demand is increasing. However, should anyone question whether we have progressed enough along this path, we can reply, yes. We have progressed substantially, and the progress continues.

Yet, as inadequate as it may be, innovation and fast track construction must join hands to, at the very least, stay in the same place. While the