

## Globalization of Structural Design and Construction in Developing Countries

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### 1. Abstract

Globalization is shrinking the world in many senses, but at the rates at which it is happening in various countries is different depending on where any country is situated on the scale of development; however, in construction industry, the level of globalization is much lower than in other segments of the economy, across most of the countries. True and the desired level of globalization can be achieved only when the design and construction practices are globally harmonized but adopting context-specific customization to accommodate the genius of each country. This paper aims to promote such diversity in unity. The global construction industry will be the biggest beneficiary of such a globalizing movement. World has faced several crises in different countries due to many reasons like war, terrorism, bad governance, which is leading to unemployment even among highly capable engineers. A globalized environment in construction would leverage global talent despite such adverse socio-political and environmental differences. Cost-optimization is likely to take on a different meaning, gaining a wider level of acceptability across the globe.

**Keywords:** Globalization, Underground metro, construction industry, Design advancement

### 2. Introduction

What is globalization? Globalization is the overall concept of an international system to break barriers - bringing nations and people closer to each other - even across deep divides, in the form of exchange and sharing quantifiable knowledge and experience. With such globalization not occurring at the desired rates in the construction industry, there are numerous instances of engineers and contractors from different parts struggling to communicate as they exchange ideas, not only on everyday matters,

but also on deeper issues of design and construction techniques as mandated in different countries.

This paper discusses some of design and construction specific issues and emphasizes global practices in structural design and construction industry, with reference to practices in use in developing countries like India.

Globalization has obvious impact on society, culture and customs. The first part discusses design philosophies, methods, systems and other differences in general terms. The second part, on the