

# Civil Engineering Application and Research of FRP in India as Compared to China

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**ABSTRACT:** To meet up the requirements of advanced infrastructure, new innovative materials and technologies in construction industry has started to make its way. Any technology or material has its limitations. With structures becoming old and the increasing bar corrosion, old buildings have started to demand additional retrofits to increase their durability and life. Engineers throughout the world including India and China have used Fiber Reinforced Plastic (FRP) to solve their structural problems in an efficient and economical manner. In the field of civil engineering, most of the use of FRP is confined to repairing and strengthening of structures.

Use of FRP for confinement has proved to be effective retrofitting and strengthening application. The confinement in seismically active regions has proved to be one of the early applications of FRP materials in infrastructure applications. Confinement may be beneficial in non-seismic zones too, where, for instance, survivability of explosive attacks is required or the axial load capacity of a column needs to be increased due to higher vertical loads. Hence, FRP composites are finding ways to prove effective. Like other materials, FRP also has its limitations. After presenting a brief review on these dimensions, this paper provides a thorough survey of the application of FRP in civil engineering in India and China.

**Keywords:** Fiber Reinforced Plastic (FRP), Retrofitting, Seismic zones.

## I. INTRODUCTION

In today's growing economy, Infrastructure development is also raising its pace. Many reinforced concrete and masonry buildings are constructed annually around the globe. With this, there are large numbers of them which deteriorate or become unsafe to use because of changes in use, changes in loading, change in design configuration, inferior building material used or natural calamities. Thus repairing and retrofitting these structures for safe usage of these structures has a great Market. There are several situations in which a civil structure would require strengthening or rehabilitation due to lack of strength, stiffness, ductility and durability. Some common situations where a structure needs strengthening during its lifespan are:

- Seismic retrofit according to current code requirements.
- Upgraded loading requirements; damage by accidents and environmental conditions.
- Initial design flaws.
- Change of usage.

Depending on the desired properties, usage and level of damage in structural members, these can be repaired and strengthened by several widely used methods.

India and its neighbour China are the two big emerging and developing economies. While they started making use of composites almost simultaneously about more than 30 years ago, the progress made by China is rather Astounding [1]. Fibre reinforced polymer (FRP) in India has taken shape in 1960s with a single resin manufacturer and a lone source of fibre glass. Over the years, the industry has grown steadily, but at a slower pace [2]. FRP materials were developed primarily for aerospace and defence industries in the 1940s and are widely used in many industries today, including aeronautic, marine, automotive and electrical engineering. With the continuing cost reduction in high-performance FRP materials and the growing need for new materials to renovate civil infrastructures, FRP materials are now finding wider acceptance among civil engineers [3]. China may be traced back to the end of 1950s when China was in short supply of steel [4]. Construction is a major part of development plan of developing countries including India. To meet the large demand for infrastructure development, maintenance and life enhancement of existing structures are very important. After many years of

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