

# **FOAM CONCRETE –THE PRESENT GENERATION’S BUILDING SOLUTION**

**K. KRISHNA BHAVANI SIRAM**

Assistant Professor, Department of Civil Engineering, Mahatma Gandhi Institute of Technology, Hyderabad,  
Andhra Pradesh, India

## **ABSTRACT**

Cellular concrete is a solution in which coarse aggregates have been replaced altogether by air or gas in the form of tiny bubbles for drastic weight reductions. It is a lightweight material that excels in thermal insulation and fire-resistance. A significant characteristic of foam concrete is the ability to control its density over a wide range, and this is achievable by adding a calculated amount of foam to the base mix. Foam concrete has gained importance because of its wide range of applications which include Thermal insulation, Fire resistance, Workability, Flow-ability, Sound absorption, Self-compacting, Density, Energy absorption etc. Thus cellular concrete is a problem solver for wide variety of challenges in construction, mining and manufacturing applications.

**KEYWORDS:** Foam Concrete, Surfactants, Foaming Agent, Bubbles