



**Venture Name : PrecAcres India Pvt. Ltd.**

**Tag Line : For safe and sustainable living.**

**Founder & Co-Founder: Mr. Shaik Mohammed Tajdar Ali Taj & Ms. Suebha Khaton**

**About the venture:**

PrecAcres-Blocks is a product that can supplement the use of cement and concrete blocks in precast construction. These structural blocks can be used by replacing conventional concrete blocks in precast construction.

**The Gradual Progress Story:**

During our final semester of B.Tech, we were thinking how we can reduce the impact of cement on the environment. Cement produce huge amount of carbon dioxide which is to be controlled. Then we decided to replace the cement in mortar and concrete with any supplementary material with same properties of cement. We decided to use glass powder in place of cement as we found it is rich in Si-Al composition which is a property of cement.

**Research Work:**

We started doing research on the materials which posses the similar composition and properties of cement. We did research on glass and came to know that glass waste is used only as a landfill. We decided to replace cement with glass powder. After that we made samples and tested them with comparison to the conventional cement mortar blocks and got relatively similar compressive strength like cement mortar blocks.

**Strength of Your Concept/ Product:**

The strengths of our product is that it can reduce carbon dioxide produced from the cement industry, No water will be used for mixing the materials for casting hence it saves water, Steam or oven curing is done rather than conventional water curing, Comparative construction cost will be reduced if this concept is used for construction.