

ANU.EDU.IN

NAME:

Anant National University

LOCATION: Ahmedabad, Gujarat



THE SOLUTION

Prefabricated prefinished volumetric construction (PPVC) using recycled plastic & industrial wastes.

HOW IT ADDRESSES THE PROBLEM

The proposed technology elucidates the innovative use of plastic in combination with fly-ash and cement to produce modular precast components used as a walling and roofing unit. The idea is a technology that achieves an optimum synergy of affordability, material sustainability, and resource efficiency. Prefabricated Prefinished Volumetric Construction (PPVC) further enables modular speedy construction. Prototyped in University of California, Berkeley, and used in countries such as Japan and Colombia, this would be the first time such a technology is used in India.

WHO IS THE TARGET GROUP

The technology is suitable for production of affordable housing at scale under PMAY(U), and is of interest to builders, developers, as well as industries with recyclable waste and by-products.