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NAME:

Saltech Design Labs Pvt Ltd

LOCATION: Ahmedabad, Gujarat



THE SOLUTION

Saltech Design Labs Pvt. Ltd. has developed a manufacturing process and machines which can transform mixed plastic and industrial waste into composite materials, which can in turn be molded into usable, more cost-effective, and more sustainable alternatives to conventional cement concrete pre-cast pave blocks, kerb stones, and tiles. The composite manufacturing process works with various types of plastic wastes, does not require segregation, and can be employed even in highly contaminated environments.

HOW IT ADDRESSES THE PROBLEM

The technology offers a cost-efficient and better-performing alternative to conventional building materials such as clay-fired bricks, fly-ash bricks, and cement concrete. The modular and pre-cast design allows for rapid construction and lowers use of mortar and binders, in turn reducing pressure on natural resources like soil, sand, timber, and stone.

WHO IS THE TARGET GROUP

The technology is ideal for both, Business-to-Government (B2G) and Business-to-Business (B2B) audiences. In the B2G segment, the material is suitable for municipal corporations and Panchayats for construction of roads, footpaths, pavements etc., and for State & Central government agencies constructing affordable housing. In the B2B segment, the technology is suitable for builders, infrastructure developers, consultants, and green building institutions.

WHAT HAS BEEN THE IMPACT SO FAR

Since October 2019, over 40,000 square feet of paving products have been sold, translating to reductions of 32.4 tonnes of plastic waste and 70.2 tonnes of industrial waste. Employment has also been generated for 6 persons, while 50 ragpickers have been incentivized for materials sourcing.