The present invention is related to a method of recycling of polymer waste and flyash. The shredded and pulverized polymer waste is homogeneously blended with flyash in a specific proportion and cured to achieve the desirable physical and mechanical characteristics of a paver block.

Nowadays, polymer-based materials are extensively used for domestic applications because of their ease in economic production and comparable strength. However, most of the polymer materials are non-biodegradable materials. Hence, environmental conservational policies mandate the replacement or recycling of polymer-based domestic products and components. Besides, discarding flyash in the dump-sites, that is produced from coal-fired thermal power plants aggravates environmental pollution (including groundwater resources). Hence, devising effective waste-management strategies or developing technologies for recycling wastes (polymers and flyash) is the need of the hour. This research work focuses on the development of technology to fabricate composite paver blocks using shredded and pulverized polymer wastes and flyash.

**Technical Advantages**

- Simple prior-processing routes
- Economical fabrication procedure

**Patent Details**

Composite Paver Block – Technology for Recycling Waste Polymer and Flyash (Application Number: 202141014778)