

Shri ShamraoPatil (Yadravkar) Educational & Charitable Trust's

Sharad Institute of Technology, College of Engineering Yadrav- Ichalkaranji 416118

(Approved by AICTE, New Delhi, & Affiliated to Dr. BATU, Lonere, Shivaji University, Kolhapur)

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Effective utilization of Plastic waste for casting of paving blocks

ABSTRACT

Looking to the global issue by post-consumer plastic waste, research efforts have been focused on consuming the waste on massive scale in efficient and environmental friendly manner. Plastic waste recycling is an excellent environmental friendly way as compared to disposal of waste plastic.

On the other hand, most of the roads are provided with footpath which is covered by Paver blocks. In places where underground utilities like water supply lines, underground drainage, underground electricity cables etc. are laid, interlocking paving blocks can be used with advantage of easy removal and replacing as and when needed.

On this outline of problem of disposal of plastic and demand of paving blocks, following proposal is based. It focuses on manufacturing paving blocks made up of 100% waste plastic which can be used for the application restricted to footpaths, cycle lanes, internal roads in gardens, Railway stations, overhead bridges, etc.

This can consume high amount of waste plastic along with reduction on the requirement of material for conventional paving blocks like cement and sand.



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