

Plastic-mixed Handmade Paper by KVIC

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In news- KVIC's Unique Plastic-Mixed Handmade Paper got Patent for Invention to Recycle Waste Plastic.

About Plastic-mixed Handmade Paper-

- Khadi and Village Industries Commission (KVIC) developed this paper to reduce plastic menace from nature.
- The plastic-mixed handmade paper was **developed under Project REPLAN** (REducing PLASTic from Nature).
- This is the **first of its kind project in India**, where plastic waste is de-structured, degraded, diluted and used with paper pulp while making handmade paper and thus reduces plastic waste from nature.
- **It is 100% wood-free and made of eco-friendly materials** – Cotton & Silk rags and agro waste.
- The **patent certificate for this was issued to KVIC's Kumarappa National Handmade Paper Institute (KNHPI)**, Jaipur in August 2021, by the Controller of Patent, Intellectual Property of India
- **The idea of developing plastic-mixed handmade paper was invented in September 2018** and after 2 months, the project was executed by the team of scientists at KNHPI.
- The technology developed by KVIC uses both high & low density waste polythene that not only adds extra strength to the paper but also reduces the cost by up to 34%.
- The product is recyclable and eco-friendly.
- KVIC has developed products such as carry bags, envelopes, files/folders, etc. using plastic mixed handmade paper.

Project REPLAN

- KVIC has started manufacturing plastic-mixed handmade paper under its project REPLAN (REducing PLAstic in Nature).
- In this project, the waste plastic is collected, cleaned, chopped, beaten and treated for softness.
- After that, it is mixed with the paper raw material i.e. cotton rags pulp in a ratio of 80 % (pulp) and 20% (plastic waste).
- The hand made paper is found to have good strength and durability.