

Eco-Brick Made from Paper, Cardboard and Sand

Introduction:

Eco-bricks are environment-friendly bricks made using waste materials.

They help reduce plastic and paper waste and are useful in light construction.

Objective:

To prepare low-cost bricks using waste paper, cardboard and sand for eco-friendly use.

Materials Used:

- i) Waste paper
- ii) Cardboard
- iii) Sand
- iv) Water
- v) Mold
- vi) Binder (like flour paste or glue)

Method of Preparation:

1. Tear paper and cardboard into small pieces.
2. Soak in water for 2-5 days.
3. Blend into pulp and mix sand in 2:1 ratio.
4. Add binder and mix well.
5. Put into mold and press well (pressure estimation).
6. Dry in sunlight for 5-10 days.

Benefits:

- i) Helps reduce waste
- ii) Cheap and easy to make
- iii) Light and good for insulation

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Applications:

- i) Small garden walls
- ii) Temporary shelters
- iii) Decoration in walls

Conclusion:

Eco-bricks made from paper, cardboard and sand are very useful.
They help save the environment and promote reuse of waste.
This simple idea can help in building a greener future.

Note:

Sometimes air bubbles get trapped in bricks, causing weak points.
This is called internal voids or air gaps.
They can make bricks decompose or break easily.

Solution:

- i) While molding, press the mixture tightly to remove trapped air.
- ii) Use a stick or tool to poke and release bubbles before drying.
- iii) Make sure bricks dry slowly and evenly in sunlight.

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