

Coarse Indian waste wool-based eco-friendly Green Building Material for thermal insulation & acoustic Properties

India produces coarse wool which is not sought after because of its coarse diameter, presence of medullation, inferior quality of the product and difficulties during the processing. For this reason, wool is often discarded & not been fully utilized. However, sheep wool is well regarded as one of the most performative insulating natural fibers due to its thermo-hygrometric and acoustic properties. In the building sector, sheep wool may have potential as it meets the requirements of green building components because it is an eco-friendly, renewable, and totally recyclable material. If used instead of common insulation materials (e.g., fiberglass, rock wool, polyurethane foam, polystyrene), sheep wool offers significant benefits for sustainability such as a reduction in the production costs for new insulating materials and in environmental pollution as it has less embodied energy than other materials. The developed product is Coarse Indian waste wool-based eco-friendly Green Building Material for thermal insulation & acoustic Properties

Novelty of product:

- Coarse Indian waste wool is currently don't fetch any value.
- This wool is being utilized for making **eco-friendly Green Building Material for thermal insulation & acoustic Properties.**
- Absorb VOC and keep room environment healthy
- Managed Relative Humidity (RH) of Room
- Natural flame extinguishes properties

