

**ABSTRACT OF PROJECT ON  
STANDARDISATION OF BINDERLESS BOARDS FROM COIR PITH**

Coir pith is a biomass residue obtained from coconut husk that decomposes very slowly due to its lignocellulosic nature. It is one of the largest agro wastes in tropical countries contributing environmental pollution, both land and water pollution. The eco-friendly production of binderless boards from coir pith as wood substitute could create novel economic activities in rural areas. The binderless board produced from coir is 100% eco-friendly as there are no harmful emissions, no chemical treatment required for the production and there are no byproducts during the production process of the boards. The binderless boards are developed using the intrinsic resin properties of lignin under high temperature and pressure. The optimization of various parameters such as moisture content, temperature, pressure and cooling under pressure were done to obtain binderless boards of good quality. The properties of the developed Binderless Boards were tested as per Indian standards and it is found that the binderless boards from coir meet the quality requirements. Also they showed good resistance against termites and borers.