

PRODUCT 3. BIOETHANOL FROM COIR PITH

Coir pith is a by-product from coir industry, which is a ligno-cellulosic material with high lignin percentage (38.5%) and a cellulose content of 26.4%. Methods such as pyrolysis and fermentation are widely used for production of biofuels from ligno-cellulosic materials. Coir pith which could be one of the best substrate for bio fuel production needs to be utilized in an effective way, so that optimized processes or condition would give a higher yield from minimum substrate.

CCRI has successfully established the technology for the production of bioethanol from coir pith, standardization and optimization process are underway. Application of bioethanol include substitute for fossil fuels and blends with petrol. This has been purified from crude solution by utilizing distillation. The bioethanol produced is shown below in the image.

