Bio-Rean (A Biodegradable Planting Pot)

Muhammad Zahid, Muhammad Zahirul Afiq (School: Sekolah Menengah Sains Sultan Mohamad Jiwa)
Muhammad Zainudi, Durratul Aisyah (School: Sekolah Menengah Sains Sultan Mohamad Jiwa)
Ibrahim, Saidatus Syakirah (School: Sekolah Menengah Sains Sultan Mohamad Jiwa)

Finding out that plastic polybag is one of the materials that take a very long time to degrade was one of the issues that prompted us to come up with this idea. As a result, we used durian as the primary component of a biodegradable planting container called Bio-Rean. We thus utilize waste materials like discarded cogon grass and old newspapers. A completely new ecologically friendly option is offered to make Bio-Rean. Additionally, we employ durian husks because of the protein's biodegradation, water absorption, load strength, tensile strength, and heatproof properties. So, straightforward tests are carried out to determine whether the product is effective. The results for them demonstrate that Bio-Rean is superior to plastic polybags in the biodegradable test, in which the RD3 sample performs best, in the water absorption test, in which the RD3 sample also performs best, in the load strength test, in which Bio-Rean is superior, in the tensile strength test, in which Bio-Rean is superior, and in the heatproof test, in which Bio-Rean is superior. We also work with a higher institute to investigate the air cavities in Bio-Rean and the composition of elements in Bio-Rean. To conclude, this product passed all the tests and will ultimately have a lot of beneficial effects on the socio-environment and socio-economy at the end of the day.

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