

## ABSTRACT

This study aims to investigate the suitability of waste materials i.e., Coconut Shell Ash as a filler in asphaltic concrete. The waste materials (Coconut Shell Ash) were tested to determine its suitability in the bitumen pavement. The recommendations are inferred upon the Marshall Stability properties. Reuse of waste product is ideal to reduce pollution, because disposal is decreased or eliminated. In this study, Coconut Shell were burnt to obtain coconut shell charcoal in a fine powder. It was then sieved in  $75\mu\text{m}$ . At the laboratory, Coconut Shell Ash were mixed with bitumen of 25%, 30%, 33% and 35% of the total weight, whereas 0% represented the control sample. The Penetration test, Softening Point test, Flash and Fire Point test, Viscosity test, Ductility test and Marshall Stability test were investigated in this study on the mix proportion on bitumen with and Coconut Shell Ash. Coconut Shell Ash were added into bitumen to improve the performance of bitumen. Therefore usage of Coconut Shell Ash could help to improve the performance of road pavement.