

IV. CONCLUSIONS

The properties of Styrofoam are found to be suitable as an additive for HRS-Base pavement. The higher the Styrofoam in the mixture, the higher the stability of the HRS-Base pavement is. The optimum bitumen content was 6.85% with 1.5% Styrofoam addition was resulted in the highest Stability. The Stability, bulk density increased with increase in the percentage of Styrofoam in the mix irrespective of the Styrofoam proportion and size. This indicates high stiffness. Thus, the use of Styrofoam in bitumen has produced a better result of Marshall Parameter, which having higher Stability, meet the required of Flow value, higher Marshall Quotient, lower Void in Mix. Consequently, it can solve the problem of Styrofoam waste disposal and environmental issue.

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