

## ANALISA PENURUNAN MUTU CAMPURAN ASPAL PANAS AC-BC TERHADAP PENGARUH RENDAMAN AIR BERLUMPUR

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### Abstrak

Konstruksi perkerasan jalan di Indonesia pada umumnya sering mengalami kerusakan penyebabnya yaitu banjir air berlumpur, dampak pada konstruksi jalan yaitu dapat melonggarkan ikatan antara agregat dengan aspal, air berlumpur yang meresap masuk ke dalam perkerasan jalan dapat mengakibatkan perubahan bentuk lapisan permukaan jalan yang menyebabkan pelayanan kinerja jalan menjadi menurun. Penelitian ini bertujuan untuk menganalisa pengaruh rendaman air berlumpur terhadap karakteristik campuran beraspal jenis laston AC-BC . Penelitian ini menggunakan durasi rendaman 2 hari, 4 hari, 6 hari dan 8 hari pada suhu 60°C dengan benda uji masing-masing 5 sesuai dengan durasi hari perendaman pada setiap jenis aspal beton AC-BC. Berdasarkan hasil penelitian ini, rendaman air berlumpur dapat mempengaruhi karakteristik *marshall* pada benda uji Laston AC-BC. Dengan demikian diketahui nilai stabilitas terhadap rendaman mengalami penurunan, nilai Kelelahan mengalami penurunan disebabkan nilai Stabilitas menurun, nilai VIM mengalami peningkatan, nilai VFA mengalami penurunan, nilai VMA mengalami peningkatan, dan nilai MQ mengalami penurunan dikarenakan MQ adalah hasil bagi stabilitas dan flow.

**Kata kunci:** AC-BC, rendaman air berlumpur, karakteristik *marshall* dan uji ekstraksi

## **ANALYSIS OF QUALITY DECREASE OF AC-BC HOT ASPHALT MIX ON THE EFFECT OF MUDY WATER IMMERSION**

### **Abstract**

*Road pavement construction in Indonesia in general often experiences damage due to muddy water flooding, the impact on road construction is that it can loosen the bond between aggregates and asphalt, muddy water that seeps into the pavement can result in changes in the shape of the road surface layer which causes road performance services. be decreasing. This study aims to analyze the effect of muddy water immersion on the characteristics of the AC-BC asphalt mixture asphalt. This study used a duration of immersion of 2 days, 4 days, 6 days and 8 days at a temperature of 60°C with 5 specimens each according to the duration of soaking days on each type of AC-BC asphalt concrete. Based on the results of this study, muddy water immersion can affect the marshall characteristics of the Laston AC-BC test object. Thus is known that the stability value of the immersion has decreased, the yield value has decreased due to the decreasing stability value, the VIM value has increased, the VFA value has decreased, the VMA value has increased, and the MQ value has decreased because MQ is the quotient of stability and flow.*

**Keywords:** AC-BC, muddy water, marshall characteristics and extraction test.

