ABSTRACT

Gorontalo province, especially Bone Bolango District is an area that is growing, in order to improve the provision of land transport. Sometimes the durability of the roads are not in accordance with the age of the plan, it can be due to materials that are not appropriate, the implementation of road construction that does not fit or the results of work that does not comply with the planned specifications. This study aimed to evaluate the mix AC-BC with centrifuge extraction method.

Pavement that will be examined are AC-BC Laston flexible pavement on the old road. Inspection includes examination of bitumen content using a centrifuge extraction and testing of the mixture aggregate gradation. Mix aggregate gradation test result has been compared with the specification of Highways 2010 Revision 3. Implementation of the research conducted in the laboratory, university state of gorontalo. For sampling carried out on roads Toto - Regent Office - Perintis Lake, STA 0 + 750 R; STA 0 + 750 L; 1 + 250 R; STA 1 + 250 L; STA 0 + 500 R; STA 0 + 500 L; STA 1 + 000 R; STA 1+ 000 L.

The Asphalt content result is obtained on average STA 0 + 750 = 5,158%, STA 1 + 250 = 5,158%, STA 0 + 500 = 5,217%, and STA 1 + 000 = 5,233%. According to Mix aggregate gradation test, the result does not match the specifications required by the Highways 2010 revision 3.

Keywords: Mixed AC-BC, Extraction, Gradient, Specification of Highways 2010 Revision 3

ABSTRAK

Provinsi Gorontalo, khususnya Kabupaten Bone Bolango merupakan daerah yang sedang berkembang, dalam rangka meningkatkan penyediaan transportasi darat. Diharapkan kondisi jalan tersebut memiliki keawetan sesuai umur rencananya. Terkadang keawetan jalan tidak sesuai dengan umur rencana, hal tersebut dapat dikarenakan bahan material yang tidak sesuai, pelaksanaan konstruksi jalan yang tidak sesuai ataupun hasil pekerjaan yang tidak sesuai dengan spesifikasi yang direncanakan. Penelitian ini dimaksudkan untuk mengevaluasi campuran AC-BC dengan metode ekstraksi sentrifugal.

Lapisan perkerasan yang akan diperiksa yaitu lapisan Laston AC-BC diatas perkerasan lentur jalan lama. Pemeriksaan meliputi pemeriksaan kadar aspal menggunakan alat *centrifuge extraction* dan pengujian gradasi agregat campuran. Hasil pengujian gradasi campuran agregat dibandingkan dengan spesifikasi Bina Marga 2010 Revisi 3. Pelaksanaan penelitian dilakukan di laboratorium Teknik Sipil Universitas Negeri Gorontalo. Untuk pengambilan sampel dilakukan pada ruas jalan Toto – Kantor Bupati – Danau Perintis, pada STA 0+750 R; STA 0+750 L; 1+250 R; STA 1+250 L; STA 0+500 R; STA 0+500 L; STA 1+000 R; STA 1+000 L.

Hasil pengujian diperoleh kadar aspal rata-rata STA 0+750 = 5.158%, STA 1+250 = 5.158%, STA 0+500 = 5.217%, dan STA 1+000 = 5.233%. Hasil pengujian gradasi campuran agregat tidak memenuhi spesifikasi yang disyaratkan Bina Marga 2010 revisi 3.

Kata Kunci : Campuran AC-BC, Ekstraksi, Gradasi, Spesifikasi Bina Marga 2010 Revisi 3