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Abstract Booklet

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Keywords: Microsimulation, SUMO, SiMTraM, Traffic Flow, PCU

Paper ID: 153

Temperature Susceptibility of Warm Mix Bituminous Binders

Ambika Behl*, Satish Chandra & S. Gangopadhyay

Warm Mix Asphalt (WMA) is an innovation in paving technology which offers reduced mixing and compaction temperatures between 20 °C and 55 °C, when compared to traditional Hot Mix Asphalt (HMA). A reduction in mixing temperatures results in reduced CO2 emissions, increased sustainability, improved working conditions for construction and maintenance crews, extended paving season and financial benefits derived through lower production and transport costs. Despite the social, environmental and financial benefits of WMA technologies, there remains uncertainty relating to its durability and performance, because there is limited information available on its long-term performance. The mechanism of WMA is to use some additives or technologies to modify the rheological behavior of bituminous binders and improve the workability of the mixture at lower temperature. Hence it is imperative to study the temperature susceptibility of bituminous binders with wma additives. In this paper the effects of three different wma additives, Sasobit, Rediset WMX and Evotherm on temperature susceptibility of asphalt binders were investigated by penetration test and viscosity test. Penetration Index (PI), Viscosity – Temperature susceptibility (VTS) and penetration-viscosity numbers (PVN) were found to evaluate the effects.

Keywords: Warm Mix Asphalt, temperature susceptibility, penetration index, viscosity, bitumen

Paper ID: 155

Modeling The Effects of Factors on The Willingness of Female Employees To Telecommute In Kuala Lumpur, Malaysia

Abdul Azeez Kadar Hamsaa*, Mootaz M. Jaffb, Mansor Ibrahim, Mohd Zin Mohamed & Rustam Khairi Zahari

The concept of telecommuting is increasingly gaining attention in the Malaysian context as a means of both easing the worsening peak-hour traffic congestion, and retaining women in the workforce. Moreover, substantial evidence in the literature suggests that

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