

measured for many times by the area using the laser displacement sensors, through the similar method as Sand Patch Test, the Portable Laser Profiler method used in this study linearly conducts the MPD calculation during the driving of the test vehicle at the same place where the Sand Patch Test was conducted. Second, the correlation of MPD and MTD showed the lower result because of the lower equity resulting from the considerably less number of the mean texture depth data of more than 1mm than other mean texture depth data. The correlation of the EMTD equation suggested in this study also showed the lower results than the foreign researches, but it is considered to be the statistically safe correlation of MPD and MTD with the very high p-value of 0. If the higher correlation analysis result can be achieved by adding the various ranges of MPD and MTD data to enhance the reliability of MPD and MTD correlation analysis, the estimation of skid resistance and the noises of the tires and roads using the mean texture depth will contribute to the improvement of efficiency of road management.

ACKNOWLEDGEMENT

The study was conducted under the support of a Research Program funded by Korea Institute of Construction & Transportation Technology Evaluation and Planning.

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