

Evaluation Of Urban Trees Selection For Sustainable Parking Lots

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ABSTRACT

The increments of urban population have led to an increased need of facility. One of the facilities required is parking lots to meet the increased use of vehicles. The larger car park surface has led to an increase in temperature in the city making it hotter. Therefore, tree planting is necessary to achieve the sustainable environment. However, to achieve a sustainable level, only suitable trees can be planted in the parking lots. Through the results of the study, selection of species like *Pongamia pinnata* is very suitable for planting to get the cooling and shading effect in the parking lots. Thus the pollution level will be decreased and the impacts of parking lots will be reduced. Besides the types of trees, sufficient planting space both below and above ground is to be taken into account because it affects the rate of tree growth and surface parking situation event if the right species of trees were planted.

Key words: Parking lots, species selection, trees, sustainable

ABSTRAK

Pertambahan bilangan penduduk bandar telah menyebabkan peningkatan keperluan fasiliti. Salah satu fasiliti yang terlibat adalah tempat letak kereta untuk memenuhi pertambahan penggunaan kenderaan. Tempat letak kereta yang luas telah menyebabkan peningkatan suhu di bandar. Oleh itu, penanaman pokok adalah perlu untuk keseimbangan alam sekitar yang mampan. Namun demikian untuk mencapai tahap mampan, hanya pokok yang sesuai boleh ditanam di kawasan letak kereta. Hasil kajian, pemilihan pokok *Pongamia pinnata*, amat sesuai ditanam untuk mendapat kesan penyejukan dan rimbun di kawasan tempat letak kereta. Justeru kadar pencemaran dan kesan negatif tempat letak kereta dapat dikurangkan. Selain daripada jenis pokok, luas kawasan penanaman perlu diambil kira kerana ia mempengaruhi kadar pertumbuhan pokok dan keadaan permukaan tempat letak kereta walaupun spesis pokok yang ditanam adalah betul.

Kata kunci: tempat letak kereta, pemilihan spesis, pokok, mampan