

Optimasi Beban AS Truk Untuk Meminimalkan Biaya Transportasi Dan Kerusakan Konstruksi Jalan (Studi Kasus Ruas Jalan Solo-Kartosura-Boyolali Provinsi Jawa Tengah)

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| Author Order | of |
| Accreditation | |
| Abstract | <p>This research is aimed at defining the optimum axle load of trucks, in a way to produce both minimum transportation cost and damage construction road. Apart from formulating ways to minimize government expenditures in handling road maintenance, this research has investigated a new paradigm as an alternative of road maintenance considering the principles of cost recovery. This means that overloading trucks will have to bear Road User Tax-a tax reflecting their destructive impacts on roads. The result indicate that: Medium good vehicles have an optimum load of 7,500 ton and minimum transport cost of Rp 19.275,54 per vehicle-trip, Heavy good vehicle (HGV) trucks 2 axles 13 ton have an optimum load of 12,667 ton and minimum transport cost of Rp 37.735,21 per vehicle-trip, HGV trucks 3 axles 20 ton have an optimum load of 21,00 ton and minimum transport cost of Rp 52.730,36 per vehicle-trip and HGV trucks 4 axles have an optimum load of 26,50 ton and minimum transport cost of Rp 45.014,25 per vehicle-trip. The average of Road User Tax in effort of the pure cost recovery for: Medium good vehicles have Rp 20,89 per vehicle-trip, HGV trucks 2 axles 13 ton have Rp 195,68 per vehicle-trip, HGV trucks 2 axles 13 ton have Rp 142,96 per vehicle-trip, and HGV trucks 2 axles 13 ton have Rp 489,66 per vehicle-trip. A trip in this case is 25,30 km.</p> |
| Publisher Name | Jenderal Soedirman University |
| Publish Date | 2005-08-31 |
| Publish Year | 2005 |
| Doi | DOI: 10.20884/1.dr.2005.1.1.7 |
| Citation | |
| Source | Dinamika Rekayasa |
| Source Issue | Vol 1, No 1 (2005): Dinamika Rekayasa - Agustus 2005 |
| Source Page | 21-28 |
| Url | http://dinarek.unsoed.ac.id/jurnal/index.php/dinarek/article/view/7 |
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