

ANALISIS KARAKTERISTIK PERMINTAAN PARKIR, PENURUNAN DAN PEMUATAN PENUMPANG PADA TERMINAL PENUMPANG PELABUHAN TANJUNG PERAK SURABAYA

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ABSTRAK

Pelabuhan merupakan sarana penunjang yang sangat penting bagi kehidupan ekonomi dan sosial suatu daerah. Peningkatan arus penumpang pada Terminal Penumpang Pelabuhan Tanjung Perak ini dikarenakan harga tiket kapal laut relatif lebih terjangkau. Melihat kecenderungan tersebut diatas, maka dapat diperkirakan bahwa akan terjadi peningkatan arus penumpang. Tujuan penelitian ini untuk mengetahui karakteristik permintaan parkir, penurunan dan pemuatan penumpang pada Terminal Penumpang Pelabuhan Tanjung Perak Surabaya. Metode analisis data yaitu mengkorelasikan antara jadwal kedatangan dan keberangkatan kapal dengan pola kedatangan dan kepergian penumpang. Hasil analisis karakteristik permintaan parkir pada penelitian hari Jum'at, 11 Desember 2015 dan Kamis, 11 Februari 2016 antara lain volume parkir puncak sepeda motor mencapai 43 kendaraan (13:30-18:00) dan mobil mencapai 68 kendaraan (14:30-18:00), akumulasi parkir puncak sepeda motor mencapai 32 kendaraan (09:45-10:30) dan mobil mencapai 36 kendaraan (07:45-08:00) dengan durasi maksimum 11 jam 12 menit untuk sepeda motor, 10 jam 43 menit untuk mobil. Karakteristik permintaan penurunan penumpang tertinggi pada jam puncak terjadi pada 4 jam sebelum keberangkatan kapal dengan prosentase 34,67% untuk jumlah penumpang (Org/jam) dan 36,54% untuk jumlah kendaraan (Kend/jam). Karakteristik permintaan pemuatan penumpang tertinggi pada jam puncak terjadi pada 1 jam setelah kedatangan kapal dengan prosentase 64,55% untuk jumlah penumpang (Org/jam) dan 68% untuk jumlah kendaraan (Kend/jam), durasi rata-rata penurunan penumpang mencapai 148 detik/kend dan pemuatan penumpang mencapai 169 detik/kend. Dimensi kendaraan maksimum mencapai 9,4 m (panjang total) dan 5,2 m (lebar total) pada kendaraan Isuzu Elf Minibus. Jumlah dan kategori barang bawaan yaitu 87 buah (66%) kategori besar, 28 buah (21%) kategori sedang dan 17 buah (13%) kategori kecil.

Kata kunci: Karakteristik Permintaan Parkir, Karakteristik Permintaan Penurunan Penumpang, Karakteristik Permintaan Pemuatan Penumpang, Terminal Penumpang

CHARACTERISTICS ANALYSIS OF PARKING, DROP-OFF AND PICK-UP DEMAND ON PASSENGER TERMINAL IN TANJUNG PERAK PORT SURABAYA

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ABSTRACT

The port is a very important infrastructure for the economic and social life of the region. Passenger Terminal in Tanjung Perak Port Surabaya is the most luxurious ocean liner passenger terminal in Indonesia. Passengers flow on Passenger Terminal increase considerably because the ship fares are relatively more affordable. Based on the trend above, it can be estimated that passenger flow will increased from year to year. The purpose of the research is to know the characteristics of parking, drop-off and pick-up demand on Passenger Terminal in Tanjung Perak Port Surabaya. Data analysis methods is influenced by arrival and departure schedule of ships and passenger arrival pattern of the ship's departure schedule and pattern of departing passengers leaving the terminal to the ship arrival schedule. The research results on Friday, 11 December 2015 and Thursday, 11 February 2016 showed that, Total number of parking volume at peak hour is 43 vehicles for motorcycle at time interval of 13:30-18:00 and Total number of parking volume at peak hour is 68 vehicles for car at time interval of 14:30-18:00), Total number of parking accumulation at peak hour is 32 vehicles for motorcycle at time interval of 09:45-10:30 and Total number of parking accumulation at peak hour is 36 vehicles for car at time interval of 07:45-08:00 with a maximum duration of parking is 11 hours 12 minutes for motorcycles, 10 hours 43 minutes for the car. The highest of drop-off demand characteristics at peak hours occurred at 4 hours before the ship's departure with a percentage of 34.67% for the number of passengers (people/h) and 36.54% for the number of vehicles (veh/h). The highest of pick-up demand characteristics at peak hours occurred at 1 hour after the ship arrival with a percentage of 64.55% for the number of passengers (people/h) and 68% for the number of vehicles (veh/h), the Average duration of the drop-off is 148 sec/veh and Average duration of the pick-up is 169 sec / veh. Vehicle dimensions for drop-off and pick-up activity is as follow 9.4 m for length and 5.2 m for width and The most common vehicle type are Isuzu Elf Minibus. In term of Luggage size distribution, it has been noted that total number of large luggage is 87 item means 66% of all, total number of medium luggage is 28 item means 21% of all and , total number of small luggage is 17 item means 13% of all.

Key words: Parking demand characteristic, drop-off demand characteristic, pick-up demand characteristic, sea port passenger terminal