

BAB V

PENUTUP

A. Kesimpulan

Berdasarkan rumusan masalah mengenai perancangan sarana bawa yang mampu menjaga kualitas makanan sekaligus mendukung kenyamanan pengemudi ojek daring, penelitian ini menghasilkan kesimpulan sebagai berikut:

1. Menjaga Kualitas Makanan Selama Pengantaran

- a. Sistem isolasi termal multi-layer menggunakan aluminium foil berlapis busa bubble 4-6 mm terbukti efektif dalam mempertahankan suhu makanan dan minuman. Pengujian lapangan pada rute 20 km (80% jarak maksimum layanan OFD 25 km) selama 60 menit dalam kondisi *worst-case scenario* dengan kecepatan 20 km/jam menunjukkan: (a) minuman dingin mengalami perubahan suhu rata-rata $+0,3^{\circ}\text{C}$ (siang, 31°C) dan $+0,7^{\circ}\text{C}$ (malam, 24°C), mempertahankan suhu dalam rentang aman $5\text{-}10^{\circ}\text{C}$; (b) minuman panas mengalami penurunan suhu $5,7^{\circ}\text{C}/\text{jam}$ (siang) dan $1,2^{\circ}\text{C}/\text{jam}$ (malam). Kebutuhan ini divalidasi oleh data konsumen di mana 18% melaporkan menerima makanan dingin dan 45% mengalami masalah tumpahan cairan, mengonfirmasi urgensi pengendalian suhu dan stabilisasi muatan untuk mencegah penurunan kualitas yang berdampak pada kepuasan konsumen.
- b. Material luar poliester 300D tahan air dengan *rain cover* terpaulin dapat dipasang dalam waktu kurang dari 10 detik, dilengkapi kompartemen payung untuk perlindungan tambahan saat pengantaran jarak pendek.

2. Mendukung Kenyamanan dan Keamanan Kerja Pengemudi

- a. Sistem *front-deck mounting* mendistribusikan beban sepenuhnya pada rangka motor, mengatasi keluhan fisik yang dialami 87% responden terutama pada area punggung (77%). Uji kenyamanan dengan 2 pengemudi aktif selama 3 jam tidak menunjukkan keluhan fisik apapun, mengonfirmasi efektivitas pendekatan ergonomi.

- b. Strip reflektif meningkatkan visibilitas hingga 95%, dilengkapi area branding platform tanpa menutupi lampu kendaraan.
 - c. Kompartemen aksesoris terpisah mengakomodasi peralatan operasional yang dibawa 87% responden.
3. Pendekatan Ergonomis dan Fungsional
- a. Dimensi kompak dengan sistem ambalan modular mengakomodasi kapasitas 10-20 kg tanpa mengganggu keseimbangan kendaraan.
 - b. Posisi penempatan di dek kaki depan dengan bukaan atas menggunakan panel mika transparan memungkinkan pemantauan konstan dan tidak menghalangi akses tutup tangki bahan bakar.
 - c. Desain kompatibel dengan Honda BeAT generasi 3-5 melalui sistem strap *loop* tanpa modifikasi permanen.

Perancangan Morpak Front-Deck Carrier berhasil mengintegrasikan sembilan kriteria desain yang divalidasi melalui triangulasi data wawancara, observasi, dan pengujian lapangan, menghasilkan solusi yang responsif terhadap kebutuhan operasional pengemudi ojek daring dalam konteks pengantaran makanan dan minuman di Indonesia.

B. Saran

Berdasarkan keterbatasan penelitian dan potensi pengembangan lebih lanjut, beberapa saran diajukan untuk perbaikan dan perluasan cakupan perancangan:

1. Pengembangan Produk
 - a. Melakukan pengujian lapangan dengan durasi lebih panjang untuk memvalidasi ketahanan material, performa isolasi termal pada berbagai kondisi cuaca ekstrem (hujan lebat, suhu $>35^{\circ}\text{C}$), dan identifikasi potensi kegagalan komponen dalam penggunaan intensif jangka panjang.
 - b. Mengoptimalkan sistem ventilasi dan mengembangkan kompatibilitas ke berbagai tipe kendaraan melalui sistem pemasangan modular.
2. Penelitian Lanjutan
 - a. Melakukan kajian dampak jangka panjang terhadap kesehatan pengemudi dan analisis keberlanjutan produk.

- b. Melakukan studi komparatif lintas platform dan wilayah serta analisis kelayakan ekonomi untuk adopsi massal.
- 3. Untuk Industri dan Pemangku Kepentingan
 - a. Platform layanan dapat mempertimbangkan standarisasi sarana bawa ergonomis dan mengintegrasikannya dalam pelatihan pengemudi layanan antar makanan.
 - b. Pemerintah dapat mengembangkan regulasi standar minimum sarana bawa sebagai bentuk perlindungan pekerja platform layanan antar makanan.
- 4. Keterbatasan Penelitian

Penelitian ini memiliki keterbatasan pada beberapa aspek berikut:

- a. Cakupan sampel responden (15 pengemudi, 11 konsumen) terbatas pada wilayah Yogyakarta, sehingga generalisasi hasil memerlukan validasi lebih lanjut di wilayah lain dengan karakteristik berbeda.
- b. Analisis performa isolasi termal masih berdasarkan pengujian terbatas (2 sesi, durasi 60 menit) tanpa variasi kondisi ekstrem seperti hujan lebat atau paparan sinar matahari langsung dalam waktu lama.
- c. Pengembangan lebih lanjut memerlukan pengujian lapangan komprehensif dengan melibatkan lebih banyak pengemudi dalam periode lebih panjang, serta kajian kelayakan produksi massal untuk memastikan skalabilitas dan aksesibilitas produk bagi komunitas pengemudi ojek daring secara luas.

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