

ABSTRAK

PT Central Oil Indonesia Nikon Cabang Palembang merupakan distributor BBM Biosolar Industri (B40) di wilayah Sumatera Selatan. Dalam operasionalnya, pengolahan data pemesanan, kalkulasi komponen biaya, verifikasi dokumen *Purchase Order* (PO) dan bukti transfer, pengelolaan logistik armada, hingga pembuatan laporan penjualan masih dilakukan secara konvensional dan terpisah menggunakan pencatatan sederhana. Kondisi ini menyebabkan proses kerja kurang efisien, memakan waktu lama, serta rentan terhadap kesalahan hitung finansial. Untuk mengatasi permasalahan tersebut, penelitian ini merancang dan membangun aplikasi penjualan dan monitoring distribusi BBM berbasis *website* menggunakan bahasa pemrograman PHP dan *database* MySQL. Sistem ini mengintegrasikan pengelolaan harga, transaksi pemesanan, konfirmasi pembayaran, pengawasan distribusi, dan penerbitan Surat Jalan melalui tiga hak akses pengguna, yaitu Pelanggan, Admin, dan Pimpinan. Metode pengumpulan data yang diterapkan meliputi observasi, wawancara, dan studi dokumentasi. Hasil penelitian menunjukkan bahwa aplikasi ini mampu menstrukturkan pencatatan transaksi, menyajikan perhitungan biaya otomatis secara akurat, serta mempercepat pembuatan laporan keuangan bulanan dan monitoring logistik. Implementasi aplikasi berbasis *website* ini diharapkan dapat meningkatkan efisiensi pengelolaan data serta mendukung operasional perusahaan menjadi lebih modern, transparan, dan terorganisir.

Kata Kunci: Aplikasi *Website*, Distribusi BBM, Monitoring, Penjualan, RAD.

ABSTRACT

PT Central Oil Indonesia Nikon Palembang Branch is a distributor of Industrial Biosolar (B40) Fuel Oil in the South Sumatra region. In its operations, the processing of order data, calculation of cost components, verification of Purchase Order (PO) documents and transfer receipts, management of fleet logistics, and generation of sales reports are still carried out conventionally and separately using simple record-keeping. This condition causes the workflow to be inefficient, time-consuming, and prone to financial calculation errors. To resolve these issues, this research designs and develops a web-based fuel oil sales and distribution monitoring application using the PHP programming language and a MySQL database. This system integrates price management, ordering transactions, payment confirmations, distribution oversight, and delivery order (Surat Jalan) issuance through three user access levels: Pelanggan (Customer), Admin, and Pimpinan (Management). The data collection methods applied include observation, interviews, and documentation studies. The research results indicate that this application is capable of structuring transaction records, presenting accurate automatic cost calculations, and accelerating the generation of monthly financial reports and logistics monitoring. The implementation of this web-based application is expected to improve data management efficiency and support the company's operational processes to become more modern, transparan, and organized.

Keywords: Web Application, Fuel Distribution, Monitoring, Sales, RAD.