



**RECONSTRUCTION OF LANDSIDE FOR
LABRAQ AIRPORT LIBYA**

Thesis

**Submitted as partial fulfilling of the Requirement for the degree of Master
Of Civil Engineering Diponegoro University**

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**REKONSTUKSI AREA LAPANGAN TERBANG
LABRAG LIBYA**

Tesis

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Dedication

Finally I wish to express my heartfelt gratitude and thanks to my Beloved mother and soul of beloved father and my family and my brother Eng.sofyan Attia Elawami who make it all worthwhile and to be possible for me to thrive for the best . I thank you for your unconditional love, patience and for having made so many sacrifices for me throughout this long journey. I could not have accomplished this dream without you and I am forever grateful for all that you have done and still do. I love you all my family so much

Abstract

Labraq airport located in Labraq city , 25 km east of the Albeta in Libya circle on the spin-off 27-21 north at its intersection with longitude 74-22 east longitude and altitude of 650 m above sea level.

This airport built in 1967, a total value of 1,000,000 dollar US by a group Bethune Syrian national and project manager Renaissance architecture. After the military coup stopped in 1986, the airport return as an airport of a civilian-military joint, and in 1996 it has not been converted to a civilian airport only. The condition of Labraq airports nowadays is old building or already 45 years, not modern, the small size of the passenger terminal, administration, departure halls, reception rooms, security and baggage claim conducted in one small building which causing obstruction of the work.

The objective of this study is to make design for reconstruction of the terminal building for Labraq Libya airport to be more comfortable and more modern and to quantitatively evaluate the characteristics of the terminal configurations. The secondary data is taken by the official report of the Labraq airport that consists of data such as the number of passengers, the number of airplane, seat capacity, periodical flight, parking lot capacity for departure and arrival, width of terminal building, and the number of employees. The other secondary data supporting this research are also downloaded from internet which consists of population growth, economic growth, and growth of tourism industry in Libya.

Therefore with the prediction in the next ten year the total passengers in 2020 will two times the existing passengers. This means that minimum terminal building is about two times the existing building. The new design is also already draw by considering all the aspects i.e. the number of passengers and be more comfortable and more modern.

Key words: terminal building, passenger, reconstruction, Labraq airport.

Abstrak

Tujuan dari penelitian ini adalah untuk membuat desain atasrekonstruksi bangunan terminal untuk bandaraLabraq di Libya supayamenjadi lebih nyamandanmerancangnyasupayalebih modern. Tesisinijugabertujuanuntukmelakukanevaluasikuantitatif terhadapkarakteristik dari konfigurasi terminal.

Data sekunder diambil oleh laporan resmi bandara Labraq yang terdiri dari data jumlah penumpang, jumlah pesawatdanjenisnya, kapasitas penumpang, penerbangan berkala, kapasitas parkir, jumlah keberangkatan dan kedatangan, konfigurasi lebar bangunan terminal, dan jumlah karyawan. Data sekunder lainnya yang mendukung penelitian ini diunduh dari internet yang terdiri dari pertumbuhan penduduk, pertumbuhan ekonomi, dan pertumbuhan industri pariwisata di Libya.

Berdasarkan dengan prediksi dalam sepuluh tahun mendatang,jumlahpenumpang di 2020 akan dua kali penumpang padasaatini. Ini berarti bahwa bangunan terminal minimum sekitar dua kali bangunan yang ada. Desain baru ini juga dibuat dengan mempertimbangkan semua aspek yaitu jumlah penumpang dan faktorkenyamanan dan modernitas.

Kata kunci: bangunan terminal, penumpang, rekonstruksi, Labraq bandara.

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The writer humbly says that this thesis is far from perfection and needs to be criticized for further betterment and advancement in the future study. Last but not least, the writer would like to extend his gratitude to all individuals who helped me during my school years in Indonesia. Thank you very much.

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