DESIGN OF A PASSENGER HYDRAULIC LIFT

by

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Project Report

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SUMMARY

This project deals with the design of a hydraulic lift. The lift should be of adequate capacity for four persons, a speed of 0.52 m/s and is to be used for a mult, storey building. The number of stops are three.

CHAPTER 1, refer to the history of the elevator, from the first until the last modern model of elevator in nowadays.

CHAPTER 2, refers to the two types of elevator.

CHAPTER 3, refers to the elevator traffic, (doors, platform shape, and buffer), with the design and some calculations.

CHAPTER 4, refers to the guides, the material property and the selection of them and some calculations of fixing bracket of guides.

CHAPTER 5, refers to the grade of service, explanation of Round Trip Time and calculation of the it.

CHAPTER 6, refers to the design of Uprights and Shelves, design of Shoes and calculation of the stress and selection parts for these designs.

CHAPTER 7, refers to the modern Hydraulic types, especially to the power unit and the parts which the power unit consists.

CHAPTER 8, refers to the calculation sheet, calculation determination and selections of the designed elevator.

CHAPTER 9, refers to the price which cost this designed hydraulic elevator.

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