

PROPOSED BUS F.C.T BUS TERMINAL, ABUJA, NIGERIA.

(ENERGY EFFICIENCY IN TERMINAL BUILDINGS)

BY

OLUMUYIWA, OLUWATOBI TIMOTHY

11CAO11734

M.SC (Hons) ARCHITECTURE, COVENANT UNIVERSITY, OTA

**A DISSERTATION SUBMITTED TO THE DEPARTMENT OF ARCHITECTURE,
SCHOOL OF ENVIRONMENTAL SCIENCES, COLLEGE OF SCIENCE AND
TECHNOLOGY,
COVENANT UNIVERSITY, OTA,
OGUN STATE.**

**IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD OF
MASTER OF SCIENCE (M.Sc.) DEGREE IN ARCHITECTURE**

MAY 2018

DECLARATION

This thesis is a presentation of my original research work. Wherever contributions of others are involved, every effort is made to indicate this clearly, with due reference to the literature, and acknowledgement of collaborative research and discussions. The work was done under the guidance of Dr. O. ALAGBE, at the Department of Architecture Covenant University, Ota, Ogun State, Nigeria.

Sign.....

.....

OLUMUYIWA OLUWATOBI TIMOTHY

Date

In my capacity as supervisor of the candidate's thesis, I certify that the above statements are true to the best of my knowledge.

Sign.....

.....

Dr. O. ALAGBE

CERTIFICATION

This is to certify that this work contained in the thesis entitled **PROPOSED BUS F.C.T BUS TERMINAL, ABUJA, NIGERIA**, compiled by the author **OLUMUYIWA, OLUWATOBI TIMOTHY** of the Department of Architecture Covenant University , Ota, Ogun State, Nigeria, has been carried out under my supervision.

Sign-----

Dr. O. ALAGBE

Date

Supervisor

Sign-----

DR. O. ALAGBE

Date

Head of Department

DEDICATION

I dedicate this work to the Almighty God who has made this journey possible, thank you for the opportunity of life. Your protection on my life and journey mercies granted all through my studies in the Covenant University. I say thank you Lord.

ACKNOWLEDGE MENT

CHAPTER ONE

1.0 INTRODUCTION

1.1 BACKGROUND OF STUDY

Transportation is the movement of people, creatures and products starting with one area then onto the next (Wikipedia, 2018). There are several means of transportation which can be by air, water and land, but for the purpose of this project land mode of transportation is the focus as regards to the use of vehicular transport and more specifically buses.

As indicated by Paul Spreiregen (1965), Architects should put into consideration circulation systems as the focal point of a design when structuring an urban area or city. One of the major significance of transportation according to Stephen Marshall (2005), is the influence transportation infrastructure has had on the fabric of cities (marshall, 2005).

The main types of road transport were horses, bulls or even people conveying products over tracks that frequently took after trails. The paths were created due to high traffic density that got wider due to the increase in commercial activities. Following the development of animal drawn wheeled vehicles around the 4th and 5th millennium BC in Europe there was the need for the Romans to maintain their empire, hence the need to extend the roads.

In the eighth century, bituminous treated streets were famous in the Arab Empire with the most modern streets in Baghdad, Iraq. The tar was gotten from oil, through oil fields in the area by a procedure called destructive distillation.

The development of roads caused a development of new vehicles as bicycles, motor cars, motor trucks and buses. Bus transportation is very necessary in cities as a result of the gradual increase in the population moving into cities, for example Hong Kong Bus 1950's -