

**A DESIGN PROPOSAL FOR TOURIST HOTEL, PORT HARCOURT,
RIVERS STATE**

**THE USE OF RECYCLED MATERIALS IN DESIGN (TYRES AND
BOTTLES)**

BY

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DECLARATION

I, Jemima Ejiga of the Department of Architecture, College of Science and Technology, School of Post Graduate Studies, Covenant University, Ota, hereby declare this thesis work has been a personal academic undertaking carried out under the supervision of Dr. I.C. Ezema of the Department of Architecture, Covenant University, Ota, and that all contributory references have been duly acknowledged.

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Student's Signature

CERTIFICATION

It is hereby certified that this dissertation, written by Jemima Ojonilewa Ejiga was supervised by me and submitted to the Department of Architecture, College of Science and Technology, School of Post Graduate Studies, Covenant University, Ota.

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DEDICATION

This project is dedicated to my heavenly Father, the Almighty God, for the grace, ability and resources to come to a successful conclusion of this project. Also to my country Nigeria for whom I believe the future is better and very bright.

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Table of Contents

DECLARATION	1
CERTIFICATION	2
DEDICATION	3
ACKNOWLEDGEMENT	4
GLOSSARY OF ACRONYMS	Error! Bookmark not defined.
ABSTRACT	12
CHAPTER 1	1
1.1 BACKGROUND TO THE STUDY	1
1.2 STATEMENT OF THE PROBLEM	2
1.3 AIM	3
1.4 OBJECTIVES	4
1.5 RATIONALE AND JUSTIFICATION	4
1.6 THE CLIENT/USERS	5
1.7 SCOPE OF STUDY	5
1.8 LOCATION	6
1.9 METHODOLOGY	6
CHAPTER 2	8
2.1 INTRODUCTION	8
2.1.1 Definition of Terms	8
2.2 HISTORY OF EARTHSHIPS	9
2.3 TYPES OF EARTHSHIPS	11
2.3.1 CUSTOM EARTHSHIP	11
2.3.2 GLOBAL MODEL EARTHSHIP	12
2.3.3 TROPICAL EARTHSHIP	12
2.3.1.1 CANS IN EARTHSHIP DESIGN	13
2.3.1.2 BOTTLES IN EARTHSHIP DESIGN	14
2.3.1.3 TYRES IN EARTHSHIP DESIGN	18
2.4 PROS AND CONS OF AN EARTHSHIP	19
2.4.1 PROS OF AND EARTHSHIP	19

2.4.2 CONS OF AND EARTHSHIP	20
2.4.3 POSSIBLE SOLUTIONS TO THE EARTHSHIP CONS.....	21
2.4.3.1 LOCATION.....	21
2.4.3.2 SITING.....	22
2.4.3.3 DESIGN: STRUCTURE AND PASSIVE SOLAR	22
2.4.3.4 DESIGN: ROOM PLACEMENT	23
2.4.3.5 DESIGN: WINDOWS AND DOORS.....	24
2.4.3.6 OTHER IDEAS.....	24
2.5 RELATIONSHIP BETWEEN SPACES IN A HOTEL.....	25
2.6 PROBLEMS WITH TOURISM IN NIGERIA (RIVERS STATE).....	31
CHAPTER 3	33
AREA OF INTEREST	33
3.1 RECYCLED MATERIALS (GLASS BOTTLES AND TYRES)	33
3.1.1 TYRES AND CRUSHED TYRES	33
3.1.1.1 SLUMP	34
3.1.1.2 DENSITY.....	34
3.1.1.3 AIR CONTEST	34
3.1.1.4 PLASTIC SHRINKAGE.....	34
3.1.1.5 EFFECT OF SURFACE TEXTURE OF RUBBER PARTICLES	35
3.1.1.6 TOUGHNESS, IMPACT RESISTANCE, HEAT AND SOUND INSULATION	35
3.1.2 GLASS BOTTLES AND CRUSHED GLASS.....	36
3.2 TOURISM.....	39
3.3 SUSTAINABILITY	42
3.3.1 OPTIMIZATION OF SUN USE.....	44
3.3.2 IMPROVING INDOOR AIR QUALITY	44

3.3.3 RESPONSIBLE LAND USE	45
3.4 ARCHITECTURAL SOLUTIONS TO AREAS OF INTEREST.....	45
CHAPTER 4	47
CASE STUDIES.....	47
4.1 HOTEL PRESIDENTIAL.....	47
4.1.1 LOCATION.....	48
4.1.2 DESIGN PHILOSOPHY	48
4.1.3 BACKGROUND INFORMATION	48
4.1.4 BUILDING PERFORMANCE	48
4.2 GOLDEN TULIP HOTEL AND RESORT	51
4.2.1 DESIGN PHILOSOPHY	51
4.2.2 BACKGROUND INFORMATION	51
4.3 LE MERIDIEN IBOM HOTEL AND GOLF RESORT, UYO	55
4.3.1 DESIGN PHILOSOPHY	56
4.3.2 BACKGROUND INFORMATION	56
4.4 BOTTLE HOUSE IN KADUNA	59
4.4.1 DESIGN PHILOSOPHY	59
4.4.2 BACKGROUND INFORMATION	59
4.5 WAT PA MAHA CHEDI KAEW TEMPLE	62
4.5.1 DESIGN PHILOSOPHY	62
4.5.2 BACKGROUND INFORMATION	63
CHAPTER 5	67
SITE AND ENVIRONMENTAL ANALYSIS	67
5.1 INTRODUCTION	67
5.2 HISTORY OF PORT HARCOURT	67
5.3 ANALYSIS OF ENVIRONMENTAL CONDITIONS.....	70
5.3.1 LOCATION.....	70

5.3.2 ACCESSIBILITY.....	70
5.3.3 EXISTING SITE CONDITIONS	71
5.4 PHYSICAL FEATURES.....	73
5.4.1 TEMPERATURE	73
5.4.2 RAINFALL.....	74
CHAPTER 6	76
DESIGN CRITERIA.....	76
6.1 DESIGN BRIEF	76
6.1.1 PROJECT	76
6.1.2 CLIENT	76
6.1.3 GOALS AND OBJECTIVES	76
6.2 DESIGN CONSIDERATIONS	77
6.2.1 FUNCTIONALITY	77
6.2.2 AESTHETICS	77
6.2.3 CIRCULATION	77
6.2.4 SUSTAINABILITY	77
6.2.5 SAFETY.....	78
6.2.6 STRUCTURE AND TECHNOLOGY.....	78
6.3 ZONING	78
6.4 SPACIAL REQUIREMENT	79
6.4.1 THE ADMINISTRATIVE UNIT	79
6.4.2 THE ACCOMMODATION UNIT.....	79
6.4.3 THE RECREATION UNIT	80
6.5 SPACIAL REQUIREMENT	80
6.6 ENVIRONMENTAL AND TECHNOLOGICAL CRITERIA	84

6.6.1 MATERIAL/ FINISHES.....	84
6.6.2 MECHANICAL SERVICE	85
6.6.3 ELECTRICAL SERVICE	85
6.6.4 PLUMBING SERVICE	86
6.7 BEHAVIORAL CRITERIA.....	86
6.8 SUMMARY.....	86
CHAPTER 7	88
APPROACH TO DESIGN.....	88
7.1 INTRODUCTION.....	88
7.2 SITE PLANNING CONCEPT	88
7.3 SITE CONCEPTUALIZATION.....	88
DESIGN SHEETS	90
REFERENCES.....	114

Table of Figures

Figure 2.1 The first earthship.....	11
Figure 2.2 custom earthship plan. Source: Earthship Biotechture	12
Figure 2.3 Tropical earthship. Source: Earthship Biotechture	13
Figure 2.4 beer can house. Source: Web ecoist.....	14
Figure 2.5 bottle house in Yelwa, Kaduna, Nigeria. Source: Inhabitat website.....	16
Figure 2.6 Wat Pa Maha Chedi Kaew Buddhist temple made from glass bottles). Source: Daily mail	17
Figure 2.7 Relationship between functional spaces in a hotel. Source: Scholarly commons article on Planning and Programming a Hotel	26
Figure 2.8 relationship between the lobby and other admin spaces. Source: Scholarly commons article on Planning and Programming a Hotel.	28
Figure 3.1 Wall of the Thai monk temple. Source:	37
Figure 3.2 Division of sustainability. Source: google Images	43
Figure 4.1 view of hotel from old Aba road.	47
Figure 4.2 approach view of the hotel	51
Figure 4.3 rear view of the hotel.....	52
Figure 4.4 pool side view of the hotel.....	53
Figure 4.5 standard room in the hotel	53
Figure 4.6 the hotel gym	54
Figure 4.7 The hotel reception.....	54
Figure 4.8 One of the event halls in the hotel	55
Figure 4.9 Approach view of the hotel.....	55
Figure 4.10 The banquet hall	57
Figure 4.11 overview of the palm forest.....	57
Figure 4.12 one of the standard bedrooms	58
Figure 4.13 the reception hall.....	58
Figure 4.14 Left Side view of the house. Source: the synergycenter.org	59
Figure 4.15 Source: Andreas Forese	60
Figure 4.16 Source: Andreas Forese	61
Figure 4.17 Source: Andreas Forese	61
Figure 4.18 Perspective view of prayer temple. Source:	62
Figure 4.19 The visitor's toilet within the temple	63
Figure 4.20 side view of the main temple.....	64
Figure 4.21 wall mosaic using bottle caps	64
Figure 4.22 Side view of prayer temple	65
Figure 4.23 perspective view of the wash room.....	66
Figure 5.1 Rivers state map highlighted in red. Source: Google Images	68
Figure 5.2 Port Harcourt Zoning map. Source Google Images	69
Figure 5.3 Google map showing the area specified for the site within Greater Port Harcourt. Source: google Earth	70
Figure 5.4 outdoor theatre on the site	71
Figure 5.5 Aquatic museum located on the site	72
Figure 5.6 Site maintenance office	73
Figure 5.7 temperature variation map of nigeria. Source: Google images.....	74
Figure 5.8 climatic conditions of Nigeria. Source: Google Images.....	75
Figure 6.1 Minimum space for a single bedroom. Source: Neufert's Architect's data.....	81
Figure 6.2 Minimum parking space for linear parking. Source: Neufert's Architects data.....	81
Figure 6.3 requirement for angled parking. Source: Neufert's architects data.....	82

Figure 6.4 minimum space requirement for an office. Source: Neufert's architects data 82
Figure 6.5 minimum space requirement for an office. Source: Neufert's Architect's data..... 83
Figure 6.6 minimum hotel kitchen layout requirement. Source: Neufert's Architect's data 83
Figure 6.7 drive in cinema layout and requirement. Source: Neufert's Architects data 84

ABSTRACT

Currently in Port Harcourt Nigeria, there is a very huge litter problem that is trying to be tackled and in the architectural world there is the constant teaching about green architecture. In Nigeria, about three million bottles are thrown away each day and about two hundred and ninety million tyres are disposed every year. These bottles and tires are either thrown in landfills or burnt and some of them are recycled and used for various purposes. All over the world, people have used these materials and other recycled materials to create residential buildings, commercial buildings and even educational buildings; currently in Kaduna, Nigeria there is a three bedroom house made of recycled bottles. This study shows how these materials can be used for other building types outside the housing family, specifically a hotel design. These materials are mainly used in bungalow creations but in this study, we looked at how these materials can be used to span above one floor and the advantages of using these materials over concrete blocks, and other building materials.