

**BIOPHILIC DESIGN OF A MIXED-USE HIGH-RISE BUILDING IN  
VICTORIA ISLAND, LAGOS**

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VICTORIA ISLAND, LAGOS**

**By**

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**A DISSERTATION SUBMITTED TO THE SCHOOL OF  
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ARCHITECTURE, COLLEGE OF SCIENCE AND TECHNOLOGY,  
COVENANT UNIVERSITY**

**JULY, 2022**

## **ACCEPTANCE**

This is to attest that this dissertation is accepted in partial fulfilment of the requirements for the award of the degree of Master of Sciences in the Department of Architecture, College of Science and Technology, Covenant University, Ota.

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## **DECLARATION**

I, **ADEDOYIN-ADEDIPE STEPHEN ADEOLUWA (16CA021128)** declare that this thesis was conducted entirely by me under the supervision of Dr. Daniel O. Babalola of the Department of Architecture, College of Science and Technology, Covenant University, Ota, Ogun State. I attest that this thesis has not been presented either wholly or partly for any degree elsewhere before. All sources of scholarly information used in this thesis were duly acknowledged and referenced.

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**Signature and Date**

## **CERTIFICATION**

We certify that this thesis paper titled “**BIOPHILIC DESIGN OF A MIXED-USE HIGHRISE BUILDING IN VICTORIA ISLAND, LAGOS**” is an original body of work carried out by ADEDOYIN-ADEDIPE, Stephen Adeoluwa (16CA021128) of the Department of Architecture, College of Science and Technology, Covenant University as supervised by Dr. D. O. Babalola. Upon examination, we have deemed this work acceptable as part of the requirements for the award of Master of Science (M.Sc.) in Architecture.

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## **DEDICATION**

This project is dedicated to God Almighty for the grace and strength to complete this project. It is also dedicated to my mother for all the support: financial and otherwise.

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## ABSTRACT

*Through the years, it has been discovered that human beings have a natural urge to be affiliated with their natural environment. This inclination was termed 'biophilia'. The value of being in touch with nature has been recognized and proven, leading to increased attempts to incorporate nature-related features into the built environment. Considering this, the aim of this study was to investigate biophilic design strategies and quality of life, with a view to creating a design proposal for a mixed-use high-rise building in the city of Lagos designed to enhance the quality of life of its occupants.*

*For the methodology, a mixed approach was adopted whereby quantitative data was gathered via a structured questionnaire and qualitative data was gathered via careful observations and evaluation of selected case studies.*

*The results of the study showed that the indigenous case studies adopted biophilic design strategies to a good extent and the most adopted strategies were highlighted. It also revealed that biophilic design strategies had a net positive impact on the users' quality of life as confirmed both by the researcher and by the respondents themselves. Finally, in lieu of all the findings, a design proposal was submitted for a high-rise mixed-use building that incorporates biophilic design strategies to enhance the quality of life of its users.*

***Keywords: Biophilic Design, Mixed-use Buildings, Quality of Life***