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THEME

**INDOOR NATURAL VENTILATION FOR HYGROTHERMAL
COMFORT IN A TROPICAL CLIMATE AT DAR ES SALAAM
TANZANIA**

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ABSTRACT

When we talk about bioclimatic architecture in eco-tourism, we are mainly interested in the economic and ecological contributions of an architecture that takes into consideration all socio-cultural aspects ..., aesthetics and technologies.

Natural indoor ventilation to ensure hygrothermal comfort is one of the strategies adopted in the 21st century in sustainable architecture.

Dar Es salaam located in Tanzania is a region with a tropical climate which is characterized by high humidity and sun at a scorching altitude. This region has many natural and tourist assets (the highest mountains, the widest lake, and another the deepest in Africa ..., and also a rich and specific multicultural architecture.

In response to this observation, this research deals with the problem of natural interior ventilation as an ecotourism strategy, and this by treating hygrothermal comfort in consumption-based hotel buildings promoting efficient management of natural resources and socio-economic development.

Keywords

Sustainability, Indoor natural ventilation,hygro thermal comfort in tropical climate,Eco tourism

RESUME

Quand on parle d'architecture bioclimatique dans **l'éco-tourisme**, on s'intéresse principalement aux apports économique et écologique d'une architecture qui prend en considération tous les aspects socio-culturels..., esthétiques et technologies.

La ventilation naturelle intérieure pour assurer le confort hygrothermique est l'une des stratégies adoptées au 21^{ème} siècle en architecture durable.

Dar Es salaam située en Tanzanie est une région sous climat tropical qui est caractérisée par une forte humidité et un soleil à une altitude brûlante. Cette région présente beaucoup d'atouts naturels et touristiques (des montagnes les plus hautes, un lac le plus large, et autre le plus profond en Afrique..., et aussi une architecture multiculturelle riche et spécifique.

En réponse à ce constat, cette recherche traite de la problématique ventilation intérieure naturelle comme stratégie écotouristique, et ce par le traitement du confort hygrothermique dans les bâtiments hôteliers à base consommation favorisant une gestion efficace des ressources naturelles et un développement socio-économique.

Mots clés

Ventilation naturelle intérieure, confort hygro thermique, climat tropical, écotourisme, durabilité

Indoor natural ventilation for hygrothermal comfort in a tropical climate at Dar Es Salaam-Tanzania-

المخلص،

عندما نتحدث عن العمارة المناخية الحيوية في السياحة البيئية ، فإننا مهتمون بشكل أساسي بالمسائل الاقتصادية والبيئية للعمارة التي نتأخذ في الاعتبار جميع الجوانب الاجتماعية والثقافية ... وعلم الجمال والتقنيات.

تعتبر التهوية الداخلية الطبيعية لضمان الراحة الحرارية إحدى الاستراتيجيات المعتمدة في القرن الحادي والعشرين في العمارة المستدامة. تقعدار السلام في تنزانيا هي منطقة ذات مناخ استوائي يتميز بالرطوبة العالية والشمس على ارتفاع شديد الحرارة . تتمتع هذه المنطقة بالعديد من الأصول الطبيعية والسياحية (أعل الجبال ، والبحيرة الأوسع ، والأخرى بالأعمق إفريقيا ... ، وأيضاً هندسة معمارية متعددة الثقافات غنية ومحددة.

استجابة لهذه الملاحظة ، يتعامل هذا البحث مع مشكلة التهوية الداخلية الطبيعية كاستراتيجية للسياحة البيئية ، وذلك من خلال معالجة الراحة الحرارية في المباني الفندقية القائمة على الاستهلاك والتعزيز الإداري الفعالة للموارد الطبيعية والتنمية الاجتماعية الاقتصادية.

الكلمات المفتاحية

التهوية الطبيعية الداخلية ، الراحة الحرارية hygro في المناخ الاستوائي ، السياحة البيئية ، الاستدامة