
Studying the necessity of designing buildings with ecological architecture approach in ecosystem of Wetlands International Miankaleh

Farzaneh Elyasi Gorji¹
Mahdieh Pazhouhanfar^{2*}

1. *M.Sc. of Architecture,
Ruzbehan Higher Studies, Sari,
Iran*

2. *Department of Architecture,
Engineering Faculty, Golestan
University, Gorgan, Iran*

*Corresponding author
m.pazhouhanfar@gmail.com

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ABSTRACT

Miankaleh's peninsula and wetland located in the Mazandaran province at the north of Iran and as an indicator Ecosystem is recognized one of the world's valuable wetlands in the list of Ramsar International Convention on Wetlands so that a certificate and special profile is provided from UNESCO for Miankaleh. Construction and implemented projects has been done regardless of the special Miankaleh peninsula ecosystem so that its environment endangered. This paper is aims to review and provide ecological architectural design guidelines to help set minimum ecological footprint approach for wetland mitigation and achieving of an improved design framework in the Miankaleh Wetland. Therefore ecological architectural design is necessary for maintain wetland's ecosystem. The main objective of this study is analyzing and providing solutions to reduce the environmental impact of Miankaleh wetland's ecosystems. This is a descriptive-analytic paper and it is done to investigate ecological requirements of buildings architectural design of Miankaleh wetland's ecosystems. The statistical society was selected of 100 individuals from experts based on systematic random sampling method. Data was questionnaire and its validity and reliability using Cronbach Alpha (0.72) criteria. Data collected have been analyzed with SPSS software and statistical tests such as one-sample T-Test and Regression. T-Test results were indicated the ecological requirements of buildings architectural design are significant with 95% confidence at the Miankaleh wetland's ecosystems.

Keywords: Miankaleh wetland, Ecological architectural, Ecosystem, Statistical population ,Design.