Conservation Plan for Seera Castle in Aden City, Yemen

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A thesis submitted in partial fulfillment of the requirements for the degree of Master of conservation in the Department of Conservation and Management of Cultural Resources, Yarmouk University, Irbid, Jordan

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April 10, 2014
Abstract
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This study aims to create a conservation plan to protect, treat and manage Seera Castle that is the most famous Castle and heritage site in Aden and Yemen in general.

The study focuses on documentation for structural elements of the Castle and determines the characteristics of the building materials. In addition, to determine the factors and forms of deterioration in Seera Castle.

Many tests were applied to determine the physical and mechanical properties, and to determine the mineralogical characterization of materials of the building. Also these tests important to recognize the possibility of damage material of the Castle.

These tests included the following:

X–ray diffraction

Optical microscopic

Compressive strength

Addition to, Physical properties analysis (porosity, density, water uptake under atmospheric pressure and under vacuum).
According to the condition and materials of the Castle, provide the conservation plan that agrees with international codes to conserve the historical buildings. The Plan contains two strategies: preventive and intervention treatment. Preventive establishes to stop and to control the causes of damage on the Castle. While Intervention treatment establishes to repair and to treat the forms of decay on the Castle. Intervention undertaken when absolutely necessary and then kept at a minimum level to retain the values of the Castle.

*Keywords: Aden, Seera, Castle, plan, conservation*