

# **LANKA HOSPITAL BUILDING CERTIFICATE**

**PREPARED BY**

**STATE ENGINEERING CORPORATION OF SRI LANKA**

**2021-02-08**

## **Lanka Hospital Building Certificate**

### **1.0 Introduction**

This report is prepared by the Engineering Design Division of State Engineering Corporation of Sri Lanka on the request by a letter dated 25<sup>th</sup> January 2021 to fulfill the requirements to obtain the license from PHSRC

### **1.1 The Scope of the Work**

To investigate and prepare a report on the structural suitability of the hospital complex for occupancy of patients.

### **1.2 Site Visit**

The Chief Engineer [Designs], Mrs. N.J.Jayakody and Engineer I.V.Wickramasekara visited the hospital main building on 5<sup>th</sup> February, 2021 and had a discussion with the representatives of the Lanka hospital

This report is based on the information gathered by visual inspection, structural drawings available at SEC Design office and the Architectural drawings provided by Manager Engineering & Maintenance of the Hospital.

### **1.3 Main Building**

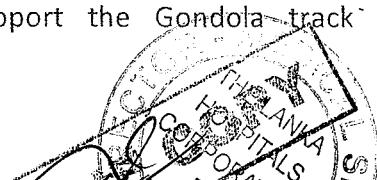
#### **General Layout**

The main building of Lanka Hospital is a reinforced concrete framed Structure which consists of 11 floors and a roof top helipad. The building consists of two main blocks, the main Hospital building and the two storied service block. This certificate covers the only main Hospital building. Structurally the main building was divided into four blocks.

Each Block has been constructed providing structural movement joints at the connection.

### **2.0 Observations**

Issues concerning to structural elements were hardly noticed. In the roof drain areas some of the down pipes were observed to be clogged causing water to stagnate (Refer Plate 1). Steel staircase which provides access to helipad was observed to be corroded to a certain degree (Refer Plate 2 and 3). High tensile cables connected to the steel frame along the perimeter of the buildings to support the Gondola track were

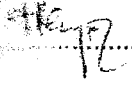


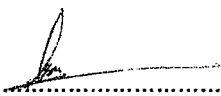
observed to be corroded at the connections to a certain degree. Dampness was observed at the Atrium roof slab (Refer Plate 4 and 5). Further dampness was observed in some areas along the walls of the fire staircase at Block C (Refer Plate 6)

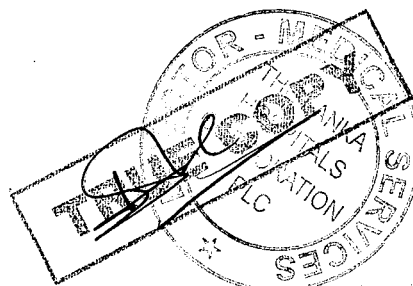
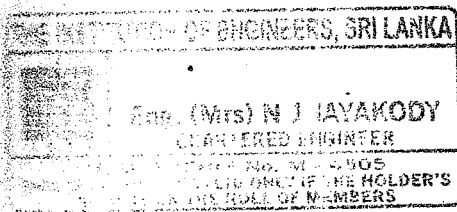
### Conclusion and Recommendations

The main building is structurally safe for occupation and its purpose but attention should be drawn to rectify the issues related to water proofing since they could affect the structural elements of the building in long term. Further need to pay attention to the issues related to corroded areas of staircases and Gondola track

Prepared By

  
Eng. N.J. Jayakody  
B.Sc (Eng), MEng, CEng, MIE(SL))  
Chief Engineer [Designs]  
State Engineering Corporation

  
Eng. I.V. Wickramasekara  
B.Sc(Eng), CEng, MIE(SL))  
Design Office  
State Engineering Corporation



Annex (Plates)

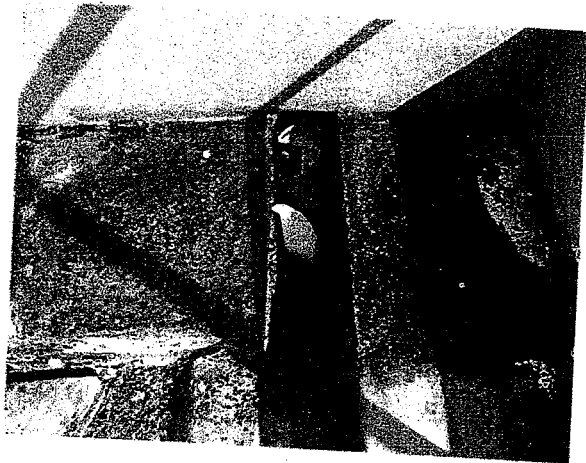


Plate 01 Clogged down pipe

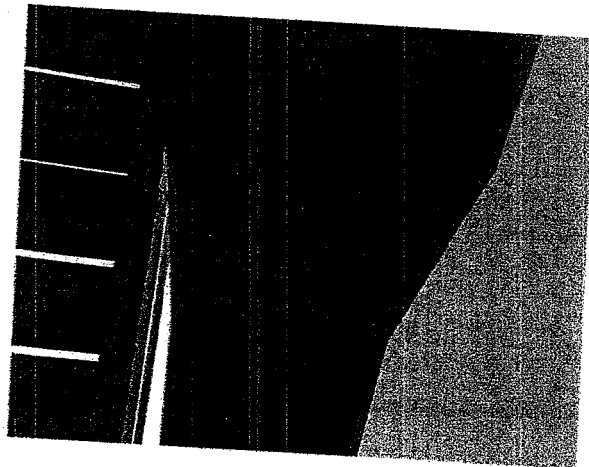


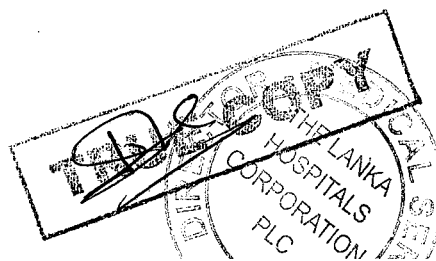
Plate 02 Corrosion visible in staircase



Plate 03 Corrosion visible in staircase



Plate 04 Dampness below the Atrium roof slab



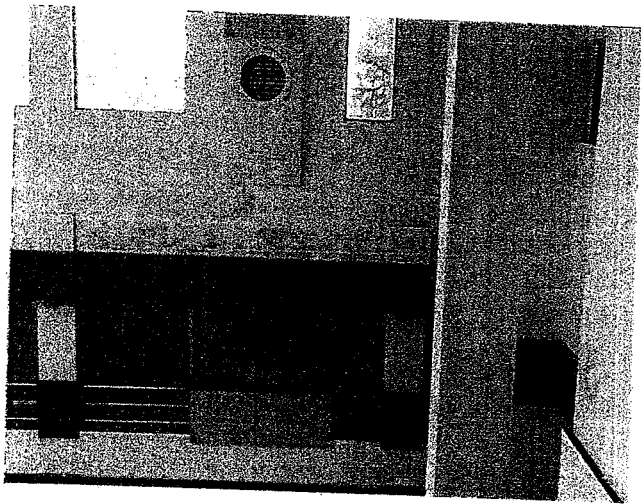


Plate 05 Dampness in the walls below the atrium roof slab

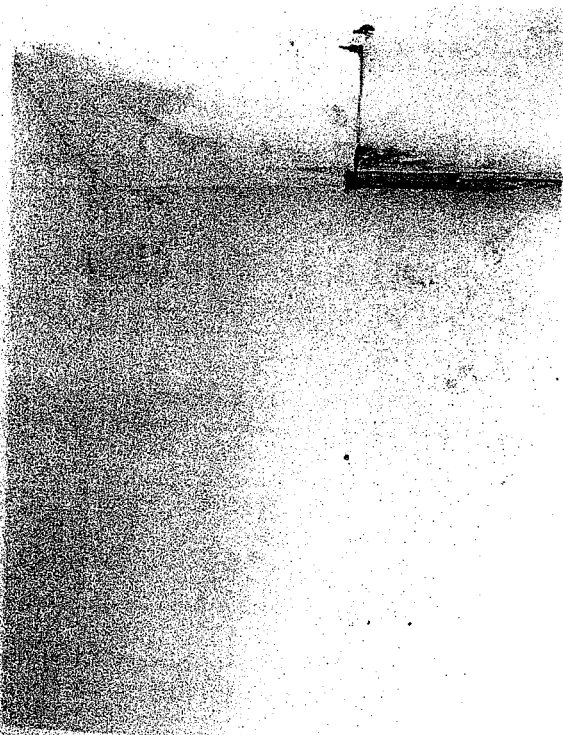


Plate 06 Dampness in the walls below the Fire staircase roof slab

