Conservation of Wooden Architecture in Myanmar

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Contents

Introduction

- Local Available Materials
- Bricks for Religious Buildings
- Timber and Bamboo for Residential Buildings
- Urban Development and new Construction Technology
- More Maintenance Cost of Timber Buildings

Classification of Heritage Building

- YCDC classified heritage buildings in Yangon
- The Protection and Preservation of Ancient Monuments Law was anacted as The Pyidaungsu Hluuttaw Law No.51,2015
- Over one hundred years old buildings are classified as ancient heritages.
- Ministry of Culture prescribed the Listed Ancient Monuments.

Causes of Timber Building Deterioration

- Fire Hazard
- Moisture and Humidity
- Insects
- Storms
- Flood and Soil Erosion
- Earthquake

Utilization of Wood in Buildings

- ❖ Structural Elements
- ❖ Decorations
- ❖ Ceilings
- ❖ Floors
- ❖ Walls
- ❖ Roofs
- ❖ Sculpture

Properties of Timber

Teak
Hardwood
Softwood
Test Lab for Timber Qualities

Training and Documentation

Woodworking Skilled Craft

Meassuring and Drawing of Existing Buildings

Photographing

3D Modelling and Model Making

Conservation Concept:

Conservation focuses on protecting the original structure with the least possible interventin

- **Preservation of Authenticity**
- **Minimum Intervention**
- **Regular Maintenance**
- **Use of Compatible Materials**

Restoration Concept:

- ❑Restoration aims to return a timber building to a known earlier state while respecting its historical significance
- ❑Historical Research
- ❑Repair before replacement
- ❑Respect for original fabric
- ❑Reversibility
- ❑Distinguish new from old

Preventive Measures

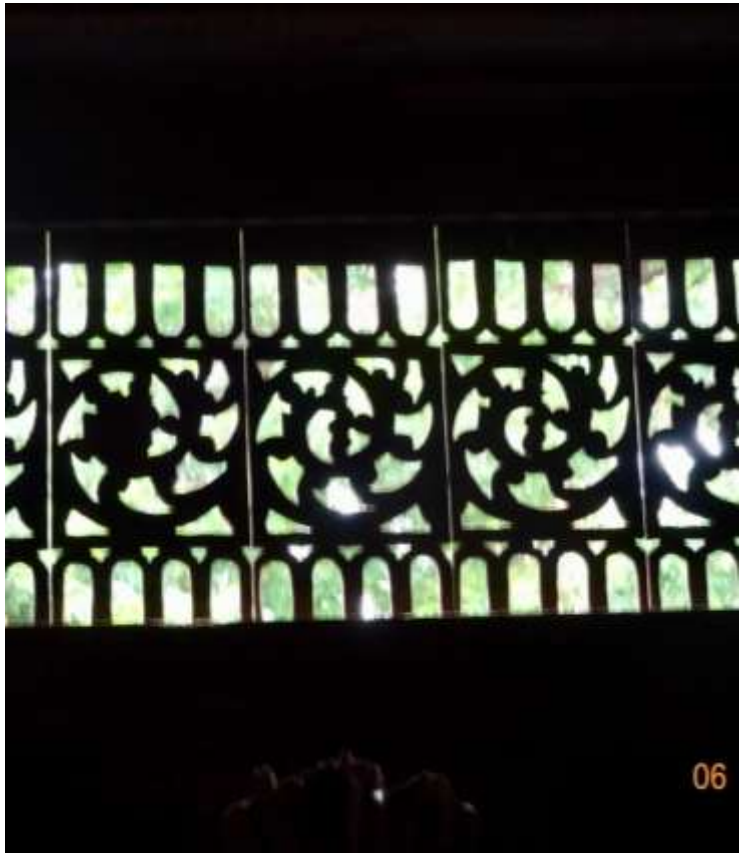
- Regular inspection and maintenance
- Moisture and drainage control
- Protection from insects and fungi
- Fire prevention
- Structural monitoring
- Use of compatible materials
- Accurate documentation
- Proper management of the building and its surroundings


Nyaungookhotket Photography

Forecasting for Future

- Climate Change Impacts
- Biological Deterioration
- Aging of timber
- Technological Advances
- Disaster risk management
- Sustainable Conservation
- Long-Term Maintenance Planning
- Community and Cultural Engagement

Conclusion



Future conservation of timber buildings should focus on **preventive maintenance, adaption to climate change, early detection of deterioration, disaster preparedness, sustainable repair practices, and continuous monitoring using modern technologies** Combining these measures with traditional craftsmanship and community involvement will help ensure that these historic structures are preserved for future generations

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Q & A

Thank you !