TECHNICAL TOOLKIT FOR SAFEGUARDING

BAGAN
ESTABLISHING A GLOBAL-LEVEL FRAMEWORK FOR HERITAGE MANAGEMENT AT BAGAN

Bagan is an extensive landscape of monuments located on the Ayeyarwady River in the central dry zone of Myanmar. With over 3,500 stupas, temples and other religious structures, it provides exceptional and continuing testimony on an impressive and unprecedented scale of the tradition of Buddhist merit-making.

Since 2011, UNESCO has actively supported Myanmar in strengthening its capacity to manage the site in all dimensions, in cooperation with the world’s leading experts on Bagan, universities, professional associations and NGOs. This Technical Toolkit provides an introduction and links to the various tools, platforms and guidelines for heritage management and conservation which have been developed for Bagan, in line with international and World Heritage principles.
Strengthening site management systems

- Integrated Management System for Bagan;
- Auxiliary management plans / guidelines related to Disaster Risk Management Strategy (with World Bank), Tourism Management Strategy (with JICA), Regional Plan (with AMA), Heritage Impact Assessment;
- Establishment of BAGANCOM and coordination committees at regional / local levels;
- Expanded and re-organized DoA Bagan Branch Office.

Improving documentation as the basis for informed site management

- Up-to-date GIS inventory of all monuments on the site;
- Fully digitized version of the Pichard inventory;
- Comprehensive “OneMap” of Bagan of all heritage and non-heritage features;
- High-resolution maps of the entire Bagan heritage site;
- 3D laser scans of selected monuments.

Building capacity for heritage professionals

Benefiting DoA, universities and professional associations

- GIS;
- Site management skills;
- Conservation of monuments and decorative works (condition assessment, emergency damage assessment, preventative conservation, emergency stabilization and restoration).

Harmonizing conservation in line with global and World Heritage standards

- Supported the establishment of the International Coordinating Committee for Bagan;
- Developed suite of technical conservation guidelines.

Download Technical Toolkit for Safeguarding Bagan (UNESCO 2018) by scanning QR code or following this link:

bit.do/eDHFy
Following the 24 August 2016 earthquake that affected Bagan, UNESCO worked closely with the Myanmar authorities, local people as well as national and international collaborators in responding to the emergency situation. A total of 389 monuments suffered damage, requiring rapid assessment, stabilisation and long-term rehabilitation.

**Form for rapid assessment of damage (E-card)**

Used for assessing and recording damage to monuments using a red-yellow-green rating system. Available in English and Myanmar.

**Guidelines for post-earthquake temporary structural stabilisation of monuments of Bagan**

Explains the mechanisms of post-earthquake safety evaluation and the identification of potential risks for partial/complete collapse through rapid visual surveys. Guides in the selection, design and execution of short-term counter measures for temporary stabilisation and strengthening.
**Post-disaster rehabilitation procedures and guidelines**

Provides guidelines for long-term rehabilitation at the site, monument and object level, including recommended levels of intervention and reconstruction.

**Pilot restoration plan for Ananda-ok-Kyaung**

Demonstrates a multidisciplinary and comprehensive approach to developing conservation recommendations for an earthquake-damaged monument, based on extensive documentation, scientific investigations and condition assessment.
GUIDELINES FOR RECORDING MONUMENTS

Provides step-by-step specifications for recording the complex architectural features of Bagan built heritage, employing advanced tools and techniques to gain a high level of accuracy and detail.

RAPID CONDITION ASSESSMENT OF MONUMENTS

Explains the procedure to undertake systematic rapid condition assessment using a standardized “Structure Rapid Condition Assessment Card” (called S-card) which has been developed to cover various types of monuments in Bagan.
**GUIDELINES FOR IN-DEPTH CONDITION ASSESSMENT OF MONUMENTS AT BAGAN**

Guidance note in approaches for conservation of mural paintings and architectural decorative works. Explains the composition, behavior, vulnerabilities, main causes of deterioration, typical conservation problems and recommended conservation techniques. Introduces the rapid assessment card for mural paintings and decorated architectural surfaces (D-card).

**GUIDANCE NOTE IN APPROACHES FOR CONSERVATION OF MURAL PAINTINGS AND ARCHITECTURAL DECORATIVE WORKS AT BAGAN**

Prepared by Robbin Leijn-Lanfer
within the framework of the UNESCO Projects
“Capacity building for safeguarding cultural heritage in Armenia” funded by UNDP
“Safeguarding Bagan within the World Heritage Framework” funded by UNESCO

Explains the composition, behavior, vulnerabilities, main causes of deterioration, typical conservation problems and recommended conservation techniques. Introduces the rapid assessment card for mural paintings and decorated architectural surfaces (D-card).

**MANUAL FOR THE CONSERVATION OF MONUMENTS AND HISTORIC BUILDINGS AT BAGAN**

Prepared by SFI within the framework of the UNESCO Project “Safeguarding Bagan within the World Heritage Framework” funded by SFI.

Provides guidance in conservation planning methodology (including research, survey, documentation, value assessment) and recommendations for conservation interventions (including preventative conservation, upgrading site conditions, cleaning, restoration and consolidation).
UNESCO COLLABORATION AT BAGAN

Financial support from

- Italy (2012-2018)
- Switzerland (2013-2014)
- Japan (2014-2016)

In-kind collaboration from partners

- Leading national and international universities including Mandalay Technological University, Yangon Technical University, Carleton University
- Professional associations including Association of Myanmar Architects, Myanmar Engineering Society
- Heritage agencies and NGOs including ICCROM, National Research Institute for Cultural Properties Tokyo
- Development partners including JICA and the World Bank

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