

Laos earthquake bridge scaffold



Overview

The Paklaibridge has been erected in a quite deep section of the Mekong valley, so it was necessary to build 64 pylons under the water to support the bridge structure and make it earthquake proof. Providing professional-grade metal structural accessories designed to withstand the unique environmental challenges of Laos, ensuring maximum stability for construction. This manual was prepared under the JICA sponsored Project for Capacity Development on Bridge Maintenance and Management in Lao PDR for the purpose of mainstreaming preventive bridge maintenance and management in Laos. The manual was designed and adopted fully referring to Bridge Inspection Manual. Construction workers on Nasak-Khokkhaodor Bridge being built across the Mekong River to link the provinces of Xayaboury and Vientiane took many months to complete the underwater pylons supporting the bridge. Project management has confirmed that those pylons have been built to the required. The project, which began implementation in 2017, has established 15 modern integrated seismic stations across Laos, as well as the country's first national earthquake data center. The project has also trained Lao technical personnel in all aspects of network operation and maintenance, data. If you've driven through Laos—whether along the winding roads of Luang Prabang Province's mountain passes or the rural routes that cling to Champasak's riverbanks—you've almost certainly crossed a steel truss bridge. These structures aren't just “bridges” here; they're lifelines. They carry rice. Scaffolding and formwork components in Laos, such as steel walers, lifting brackets, frames, and staircases, are essential for creating stable and safe construction environments.



Article Content

Jun 18, 2026

Analyses of seismic activities and hazards in Laos: A

Six seismic source zones with different seismic activities were found. Based on these seismic source zones and a suitable attenuation model, seismic

May 27, 2026

How to Improve a 50m BS5400 Steel Truss Bridge Life in Laos

Unlike concrete bridges (which take months to build and need constant water for curing—impossible in Laos' dry season, when mountain streams shrink to trickles), steel truss bridges are prefabricated.

Jul 06, 2025

Performance of Structures in the M w 6.1 Mae Lao Earthquake in

An Mw 6.1 earthquake struck northern Thailand on the 5th of May 2014. The epicenter was located near Mae Lao district in Chiang Rai province. The earthquake caused unprecedented

Aug 20, 2025

China-aided Lao national seismic monitoring network project officially ...

The project, which began implementation in 2017, has established 15 modern integrated seismic stations across Laos, as well as the country's first national earthquake data center.

Jul 10, 2025

Seismic damage and comparison of fragility functions of public and ...

Abstract On 5 May 2014, a 6.1-Mw earthquake struck the Mae Lao region in Thailand and resulted in the evacuation of all public structures in the epicentral area due to varying degrees of

Mar 27, 2026

-Deterministic seismic hazard analysis (DSHA) map of

In both Thailand and Laos seismic hazards have been classified as the low-lying region of mainland Southeast Asia. Nevertheless in recent times few intermediate

Dec 14, 2025

Mekong River Bridge between Thailand and Laos | Structurae

Journal article written by P. Selby Smith, E. Rogers and C. Gibbons and published in the journal Structural Engineering International in issue August 1995, n. 3 v. 5.

Jun 30, 2025

THE PROJECT FOR CAPACITY DEVELOPMENT ON BRIDGE

This manual was prepared under the JICA sponsored Project for Capacity Development on Bridge Maintenance and Management in Lao PDR for the purpose of mainstreaming preventive bridge

Jun 11, 2026

Today's Earthquakes in Laos

Quakes Near Laos Now, Today, and Recently. See if there was an earthquake just now in Laos

Mar 15, 2026

Lao dam disaster: NGOs decry lack of effective remedy for survivors ...

In addition to SK Ecoplant, PNPC, the Lao government, and the Republic of Korea, which provided ODA funding for the Xe-Pian Xe-Namnoy hydropower project, all have a duty to ensure effective remedy

Apr 07, 2026

HighPerformance scaffold swivel clips Solutions for Laos Infrastructure

Can scaffold swivel clips be used for non-standard angled supports? Yes, swivel clips are specifically engineered to provide 360-degree rotation, allowing you to connect tubes at any angle, which is

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Will Luang Prabang Dam Spark Another Major

Hydropower projects in earthquake-prone regions across Asia have increased the risk of dam disasters, reservoir collapse, and huge floods. Is Luang

Jun 28, 2025

Seismic Design Guidelines for Bridges

Laos Earthquake - Free download as Excel Spreadsheet (.xls / .xlsx), PDF File (.pdf), Text File (.txt) or read online for free. This document outlines general

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Seismic Design Guidelines for Bridges

This document outlines general requirements for seismic design of conventional bridges, including: 1) Bridges must be designed for life safety performance

Nov 16, 2025

China-aided Lao national seismic monitoring network project officially ...

A handover ceremony for the China-aided Lao national seismic monitoring network project was recently held in Lao capital Vientiane. The project, which began implementation in 2017, has

Aug 20, 2025

Lao PDR Disaster Management Reference Handbook 2017

Executive Summary Lao People's Democratic Republic (Lao PDR), also referred to as Laos, or Lao, is exposed to natural disasters such as flooding,

Jun 01, 2026

Analyses of seismic activities and hazards in Laos: A seismicity

From these seismic activities and hazard analyses, Laos can be clearly separated into the three hazard zones of north-western, northeastern and southern Laos with a high, medium and low earthquake

Sep 22, 2025

-Deterministic seismic hazard analysis (DSHA) map of

The probabilistic seismic hazard analysis (PSHA) method is effectively used in an earthquake risk probability evaluation in seismogenic regions with active faults.

Mar 28, 2026

Paklaibridge to Be Earthquake Resistant

The Paklaibridge has been erected in a quite deep section of the Mekong valley, so it was necessary to build 64 pylons under the water to support

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HighPerformance scaffold swivel clips Solutions for Laos Infrastructure

High-Performance scaffold swivel clips Solutions for Laos Infrastructure Providing professional-grade metal structural accessories designed to withstand the unique environmental challenges of Laos,

May 13, 2026

Non-Linear Site Response Analysis of Bangkok Subsoils Due to ...

In general, the results show the effect of the motion due to earthquake to Bangkok subsoil. The investigated sites could undergo amplification during the earthquake under the scenario of Three

May 24, 2026

2014 Mae Lao earthquake

The 2014 Mae Lao earthquake occurred at 18:08:43 Indochina Time on May 5. The epicenter was located at a point 9 km (6 mi) south of Mae Lao District, 27 km (17 mi) southwest of Chiang Rai,

Apr 02, 2026

Scaffolding Foamwork Manufacturer Laos

Scaffolding and formwork components in Laos are fabricated using heavy-duty steel with reinforced welds and secure locking mechanisms. Each unit—from steel walers to staircases—is modular and

May 01, 2026

Vietnam, Laos open disaster data lab in Vientiane

Currently, Laos operates three earthquake monitoring stations positioned in Vientiane, Luang Prabang, and Bolikhamsay provinces, with distances between the stations ranging from 150

Nov 10, 2025

(PDF) PROBABILISTIC AND DETERMINISTIC

In both Thailand and Laos seismic hazards have been classified as the low-lying region of mainland Southeast Asia. Nevertheless in recent times few

May 14, 2026

Earthquakes in Laos, history, map, tracker

Laos was hit by 10 earthquakes in 2026. The strongest earthquake in Laos for 2026 had a magnitude of 6.1

Nov 05, 2025

The Project for Capacity Development on Bridge Maintenance and

The Project for Capacity Development on Bridge Maintenance and Management in Lao PDR

Feb 24, 2026

Earthquake Preparedness in Laos: Lessons Learned

Discover essential earthquake preparedness strategies for Laos, including community education, emergency plans, and lessons from recent events.

Contact Us

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