What types of bridges are included in Sierra Leone s cable trays

Overview

The Lungi Bridge Project is a proposed major infrastructure project in the West African country of. The 7km long bridge will link the area to, passing over the estuary of the. is located at Lungi. Transit between Freetown and the airport currently requires a boat journey or a road trip that can take 3 hours.

Key Takeaways

Sierra Leone's bridge projects include long-span, small, and climate-resilient bridges, often designed to replace ferries and improve rural and urban connectivity.

Long-

Span BridgesLong-span bridges in Sierra Leone are typically 130–215 meters in length and are designed to replace hand-pulled ferries at major river crossings, such as in Komrabai, Sumbuya, Moselolo, and Kabba. These bridges often incorporate cable-supported or girder structures to handle wide spans and heavy traffic while ensuring resilience against flooding and extreme weather conditions. They are constructed using weather-resistant materials and innovative designs to manage water flow and climate-related risks.

Small Bridges

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Smaller bridges, often part of rural feeder road networks, are constructed to enhance local market access and connectivity for smallholder farmers. These bridges typically span shorter distances and may use steel girders, pile foundations, and concrete footings. They are crucial for connecting chiefdoms and districts, improving access to schools, markets, and healthcare facilities.

Climate-

Resilient and Innovative DesignsMany of Sierra Leone's recent bridge projects emphasize climate resilience, integrating features such as elevated roadways, reinforced piers, and “road for water” concepts to withstand heavy rainfall and flooding. These designs are part of broader initiatives like the Smallholder Commercialization and Agribusiness Development Project (SCADeP) and the Climate Adaptation and Market Infrastructure Project (CAMIP), which aim to improve year-round access and reduce post-harvest losses.

Notable Examples

Some of the key bridges constructed or under construction include the Sengbe Pieh Bridge, Sewa Bridge, Waanje Bridge, Moa Bridge, Mapui Bridge, Maseniaa Bridge, and Makemu Bridge, among others. These projects demonstrate a mix of long-span and smaller-scale bridges, often incorporating steel girders and reinforced concrete to ensure durability and safety.

Summary

In Sierra Leone, bridges associated with cable-supported or long-span designs generally fall into three categories: long-span bridges for major river crossings, small bridges for rural connectivity, and climate-resilient bridges designed to withstand environmental hazards. These structures collectively enhance mobility, trade, and access to essential services across the country.

Article Content

SCADeP and Partners Inspect Progress on Bridge Construction at

These include Mattru Jong, Gendema, Manowa, and Tompare, where fully constructed bridges are expected to be delivered in the coming months. The bridge construction aligns with

Building bridges to create the Global Gateway''s strategic corridors

These bridges, along with other EU-funded infrastructure projects in Sierra Leone, are key to buidling the West African strategic corridors and the Africa-Europe Global Gateway.

Lungi Bridge

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The Lungi Bridge Project is a proposed major infrastructure project in the West African country of Sierra Leone. The 7km long bridge will link the Lungi area to Freetown, passing over the estuary of the Sierra Leone River. Freetown International Airport is located at Lungi. Transit between Freetown and the airport currently requires a boat journey or a road trip that can take 3 hours.

From Canoe to Concrete: How a Bridge Over the Sewa River Is

Additionally, through CAMIP, four more bridges (Kabba, Komrabai, Moselolo, and Sumbuya) are underway to further improve rural access. Once an obstacle, the Sewa River is now a

SCADeP AND SLRA CONCDUCT REVIEW OF CONCEPTUAL

According to Mr. Sesay,, with funding from the World Bank and the government of Sierra Leone, the SCADeP project is to design seven of such bridges and finance the construction of a

Constructing Major Roads And Bridges: The New Direction

The project makes provision for upgrading the 105km road between Sierra Leone and Liberia, including three new bridges crossing the Sewa, Wanjie and Moa Rivers.

Sierra Leone

Major projects include the Lungi Bridge, the expansion of the Queen Elizabeth II Quay in Freetown and the new passenger terminal at Lungi International Airport. Urban congestion,

Magbele Bridge: EU contributes to Sierra Leone''s Infrastructure ...

This project includes the construction of four bridges across the Gbaingbaia River, Yambatui River, Rokel River and the Ribi River funded under the 11th European Development Fund,

AASHTO-Compliant Bailey Bridges: Driving Sierra Leone''s

These challenges make AASHTO-compliant Bailey bridges an ideal fit: their modular design addresses construction constraints, while AASHTO''s corrosion protection and foundation

Government signs $14.8m contracts to build two bridges

The Cable ferries have been in existence for ages not only in those places but other districts as well, and the government and its partners have already finalized the design to transform

Introduction to 3 types of cable bridges and their

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In our life, there is a common cable tray cable trough, tray type, and ladder. Here are the characteristics and uses of these three types of bridges with understanding.

Types of Cable Trays: Benefits and Uses

Different types of cable trays offer key benefits, optimizing cable management and enhancing efficiency in electrical systems.

Types of Cable Trays: Ladder, Perforated, Basket, Solid

Explore all types of cable trays—ladder, perforated, basket, solid, and channel. Learn their uses, materials, pros, cons, and key differences.

Cable Tray Technical Guide A practical guide to product selection and ...

A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a practical reference regarding cable tray characteristics, installation, and

Installations | Cable Tray Institute

The Cable Tray Institute (CTI) was founded in 1991 to support the cable tray industry by engaging in research, development, education, and the dissemination of information designed to promote,

Different Types of Cable Trays and Their Benefits: A

Excerpt: Cable trays are vital for organizing and protecting cables in industrial and commercial settings. This guide explores the various types of

Infrastructure and growth In Sierra Leone

Agenda for Change, and adds in regional infrastructure development initiatives sponsored by the Economic Community of West African States of which Sierra Leone is a member. The infrastructure

Enhancing connectivity: EU roads and bridges programme in Sierra Leone

The EU Roads and Bridges Programme has helped transform transportation in Sierra Leone. With a total investment of EUR 153.2 million, the programme has upgraded major roads and

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