

Bailey Bridge

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Bailey Bridge Latest News

Recently, India has sent Bailey bridge materials to Sri Lanka for post-Cyclone reconstruction.

About Bailey Bridge

- It is a **type of modular bridge** whose parts are **pre-built**, so they can be put together quickly as needed.
- An English civil engineer named **Donald Coleman Bailey** is credited with inventing it in 1941.
- The key characteristics include their **modularity, portability, strength, and versatility**.
- It is preferred because **these bridges are designed for rapid construction** in difficult conditions without the need for heavy equipment or sophisticated construction methods.
- **Design and Constructions of Bailey bridge**
 - The bridges are **made of modular steel panels**, which can be easily transported and assembled using manpower alone.
 - The construction of a Bailey bridge involves **assembling prefabricated panels into sections**, which are then connected to form the bridge's span.

- The panels are connected using pins and bolts, **creating a truss structure that distributes** the load evenly.
- **Uses:** The design supports **heavy loads, including tanks and other military vehicles**.
- **Advantages:** Bailey **bridge assembly covers a small area**, which can avoid the situation that large hoisting equipment cannot enter the construction site.
- **Ideal for:** It is generally used in **terrains that span rivers**, valleys, and spans that are not very large.

Source: News On AIR

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