

## Indian Institution of Bridge Engineers (IIBE) for Sustainable Construction of Bridges

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### Abstract

IIBE (Indian Institution of Bridge Engineers) has been proactive in the field of promoting sustainable bridge engineering for the past 33 years in India. In fact, IIBE is the only professional body dedicated to bridge engineering only. Among the various knowledge dissemination events, it has been organizing webinars, conferences, panel discussions, workshops, technical visits, etcetera. One of the annual flagship events of IIBE is BRIDGExxx (Year no). First one of its series was started in 2018 in Lucknow (BRIDGE 2018) with over 300 participants. Later in Patna with over 400 participants in 2019 (BRIDGE 2020). In the years 2020 and 2021, they were organized as webinars. In 2022, it was organized in Pune (BRIDGE 2022) with about 300 participants. BRIDGE 2023 is held in Hyderabad. One of the main focuses is reduced construction time, reduced carbon footprint, conservation of natural resources, conservation of environment, etcetera all leading to sustainable construction of bridges.

**Keywords:** knowledge dissemination, sustainability, carbon footprint, speedy construction

### 1. Introduction

We live in the world of finite resources. And a large quantity of infrastructure construction has to take place in the country for its development. Therefore the construction has to be economical, speedy, make use of alternative materials, incorporate advanced technologies, aesthetically pleasing, reduce carbon footprint & greenhouse effect, conserve our natural resources, energy efficient, etc. All these aspects require a common platform for knowledge sharing. In their isolated pockets, technocrats do a lot of research / innovation, but most of it does not reach the needy. Hence, IIBE provides this common knowledge sharing platform through conferences, seminars, lectures, exhibitions, etc.

### 2. IIBE Promotes Bridge Engineering Leading to Sustainable Construction

IIBE is the professional body dealing exclusively with bridges for promoting bridge engineering in the country. India being a large country needs variety of techniques to construct the large number of bridges. Established in 1989, IIBE has been organizing various conferences, seminars, exhibitions, lectures, panel discussions, etc. It celebrated its Silver Jubilee in the 2014 wherein the Chief Guest was Honorable Minister Road Transport & Highways Shri Nitin Gadkari ji. In order to encourage bridge engineers involved in pioneering works, IIBE organizes award functions from time to time. Even during the Covid period, IIBE continued with the trend of knowledge dissemination through digital platform. Even the annual flagship events BRIDGE 2020 and BRIDGE 2021 were held online which received excellent response from delegates, speakers, and sponsors. In other words, life never stops. These annual flagship events were started in the year 2018, BRIDGE 2018 held in Lucknow, followed by BRIDGE 2019 in Patna. After BRIDGE 2020 online event, BRIDGE 2022 was held in Pune. And BRIDGE 2023 in Hyderabad. Figures 1 to 4 indicate brief of the events: