

IS 10613:2014 Cycles — Safety Requirements for Bicycles

Overview

The Indian Standard IS 10613:2014 outlines safety and performance requirements for bicycles used on public roads with a saddle height of 635 mm or more. The standard covers the design, assembly, and testing of bicycles and sub-assemblies. It also provides guidelines for instructions on the use and care of bicycles. The standard does not apply to specialised bicycles, such as tandems, delivery bicycles, toy bicycles, or those designed for competitive events.



Requirements for essential systems and sub-assemblies

The Indian Standard sets requirements for the essential systems, components and sub-assemblies of bicycle, such as

- braking and steering,
- frame and fork,
- key components like wheels, pedals, and the drive system.

to ensure their functionality, strength, durability, and the structural integrity.

Rider safety

The standard sets requirements relate to rider safety, including those for the saddle's design and adjustability, the inclusion of chain guards and spoke protectors, and the bicycle's visibility through reflectors and lighting.

Testing and compliance

The standard specifies detailed test methods to verify the compliance of bicycles and their components with the stated requirements. Annexes provide additional information on specific aspects like steering geometry and retro-reflective tape placement.

User Instructions and Certification

The standard mandates the provision of comprehensive instructions to guide the user in assembly, adjustments, maintenance, and safe riding practices. Finally, it addresses compliance with the Bureau of Indian Standards through BIS certification marking.