

IS 17157:2019, Multi Utility Tricycle - Specification

The Indian Standard IS 17157:2019 specifies the requirements for a multi-utility tricycle designed for use as a kiosk and as a conveyance by individuals with lower extremity disabilities. This standard outlines key dimensions, construction materials, and features for safety and comfort, ensuring ergonomic support and accessibility. Essential properties include a sturdy frame made of steel tubing, durable seating with cushioning, a reliable braking system, and ergonomic handle placements.

Tests include:

- **Road Test:** Ensures stability and durability over 1.5 km.
- **Static Load Test:** Verifies structural integrity under various load distributions.
- **Brake Test:** Confirms the tricycle can stop safely under controlled conditions.
- **Maneuverability:** Assesses ease of steering and handling.
- **Finish Test:** Checks paint durability under impact.

These requirements ensure the tricycle's safety, durability, and usability in diverse conditions, providing a reliable mobility solution and kiosk platform for users.