

Electric vehicles are not just an alternative means of transportation, they also save lives. To solve the problem of climate crisis, we need to make the vehicles on our roads as clean as possible. A smaller carbon footprint compared to that left by gasoline-powered cars is our biggest weapon against rising global temperatures. The Indi-wheel represents a new technology in the commuting industry, and it is sure to revolutionize transportation. Following the concept of 'Empty beneath the bonnet', an Indi-wheel is a conventional wheel housing an in-wheel motor, in-wheel suspension system, disc brake and steering system. Functions of all the components are controlled by an electrical system. The implementation of the technology of Indi-wheel opens up a gateway to better handling, performance, safety, ergonomics and drive comfort of an electric automobile/vehicle, compared to the conventional vehicle technology.

Features:

- The Indi-wheel is a design based on the concept 'empty beneath the bonnet', it makes commuting safe, reliable and comfortable.
- It is a wheel housing with in-wheel motor, friction brake, steering system and suspension system.
- Suspension design and Ackerman's steering angle have been developed.



# 26 PROJECT

DESIGN OF  
INDI-WHEEL FOR  
IMPROVING  
OVERALL DRIVE  
EXPERIENCE OF  
E-MOBILITY

**Bhavana Veeresh Ghali**  
ME

**Santhosh S**  
ME

**Bharath**  
ME

**Vandana H S**  
ME