

ABSTRACT

Limited infrastructure in rural roads often difficult to traverse, the issue of mobility becomes crucial to address. Vehicles face significant challenges in navigating rocky, muddy, or steep terrains, which hinders transportation efficiency. In an effort to tackle these obstacles, this research focuses on developing a folding utility basket. This basket is intended to provide a solution aligned with the characteristics of village roads and capable of carrying various types of goods with ease. Furthermore, an important aspect is that this basket should be easily replicable by the villagers, considering their skills and local material availability. In this regard, a simple and functional solution is the primary goal. The accessibility limitations in village roads also emphasize the need for a practical and user-friendly solution for all community members, including those with mobility impairments. Through the combination of practical design innovation and sustainability in its implementation aspects, this research endeavors to offer a beneficial solution in enhancing rural mobility and positively impacting the overall quality of life for village communities.

Key word: Foldable Basket, Electric Motorcycle, Rural Areas