

A cycle rickshaw based on ergonomic principles

Salient features of the technology:

- The redesigned model of cycle rickshaw is based on “ergonomics principles”. It reduces occupational stress and energy expenditure of the cycle rickshaw pullers.
- Comfortable spacious sitting arrangement for passenger with adequate luggage space provided.
- Changes have been made in both structural and functional configurations which include reduction in weight of the vehicle, driving mechanism, brake system, hoods including driver’s hood, passenger seat unit, luggage space, footboard and boarding height.
- Improved driving mechanism has been achieved by providing three chains and two axles resulting in transmission of driving force to both the rear wheels.
- Brake system has been provided in both front and rear wheels for more efficient control and safety.
- Sliding hoods for drivers has been provided to protect the rickshaw puller from sun and rain.
- Passenger seat unit has been designed based on anthropometric dimension of Indian population. Folding side covers has been provided.
- Validation is under process.
- The design for redesigned model of cycle rickshaw has been registered by the Indian Patent Office.
- An Indian Patent has been granted.
- This technology has been developed by ROHC, Kolkata (an ICMR institute)