

The project was sponsored by PCRA, N. Delhi to find out the best fuel economy for different popular make/model of different category of vehicles manufactured by Indian automotive industries. The vehicles were tested for constant speed fuel economy and driving cycle fuel economy. The study was carried out on chassis dynamometer simulating Road Load Condition applicable for different categories of the Vehicles. The results were plotted for fuel economy and the different speed of the vehicles. These are given in the attached document in graphical form. The following conclusion may be drawn from the results:

- Fuel economy of the vehicles is depending upon the factors like the engine capacity, technology, kerb weight, vehicle design and type of the fuel and the driving conditions.
- It is also the function of the vehicle speed and the gear used in the running of the vehicle.
- Generally as the weight, capacity of the engine increases the fuel economy on km/lit basis decreases. For the gasoline vehicles the fuel economy is maximum at mid speed ranges and for the diesel vehicle the fuel economy is higher at lower speeds.

Condition of Issue:

This test report pertains to the particular product tested and to the specific tests carried out as detailed in the report. The issuance of this report does not indicate any measure of approval, certification and control of quality surveillance of the product. No extract, abridgement or abstract from the test report can be published or used to advertise the product by the recipient without the written permission of the Director, Indian Institute of Petroleum, Dehradun, who reserves the absolute right to agree, or reject all, or any of the details of any items of publicity, for which consent may be sought.

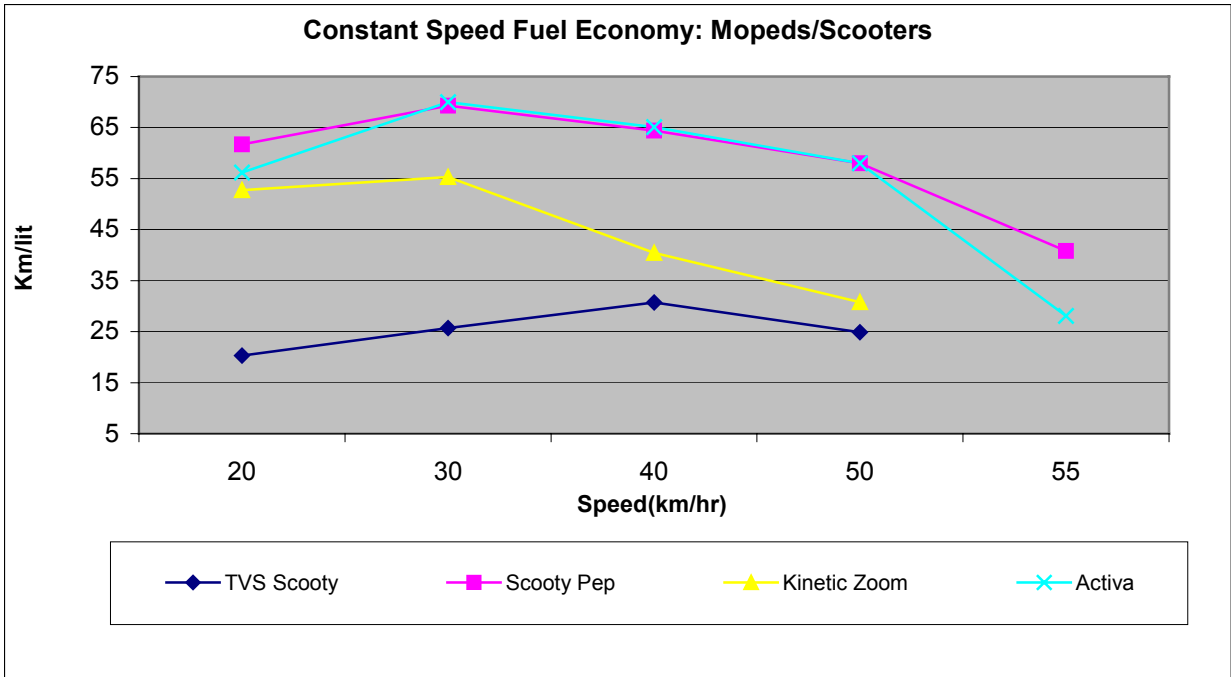


Fig-1

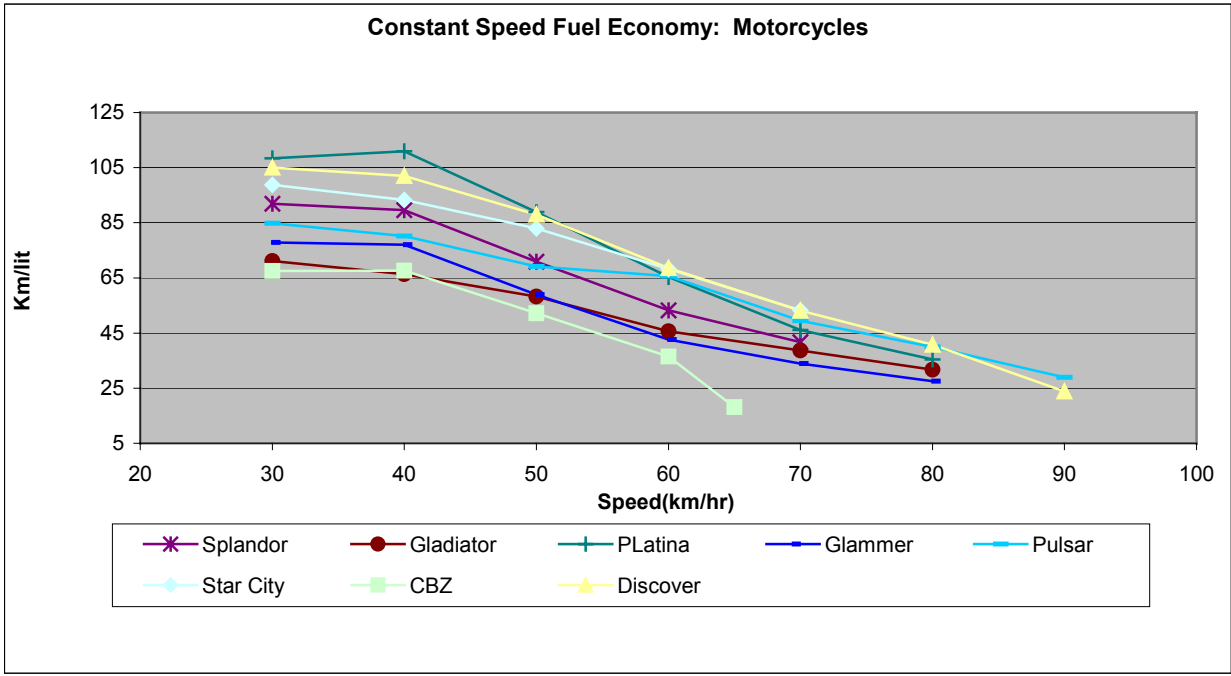


Fig-2

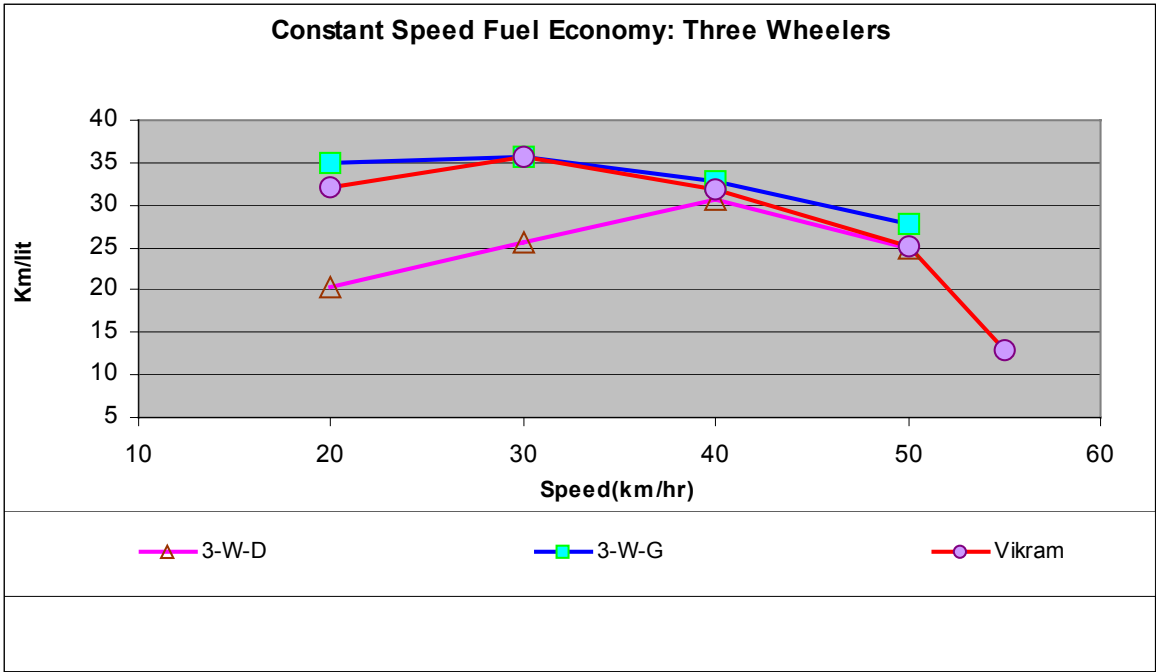


Fig-3

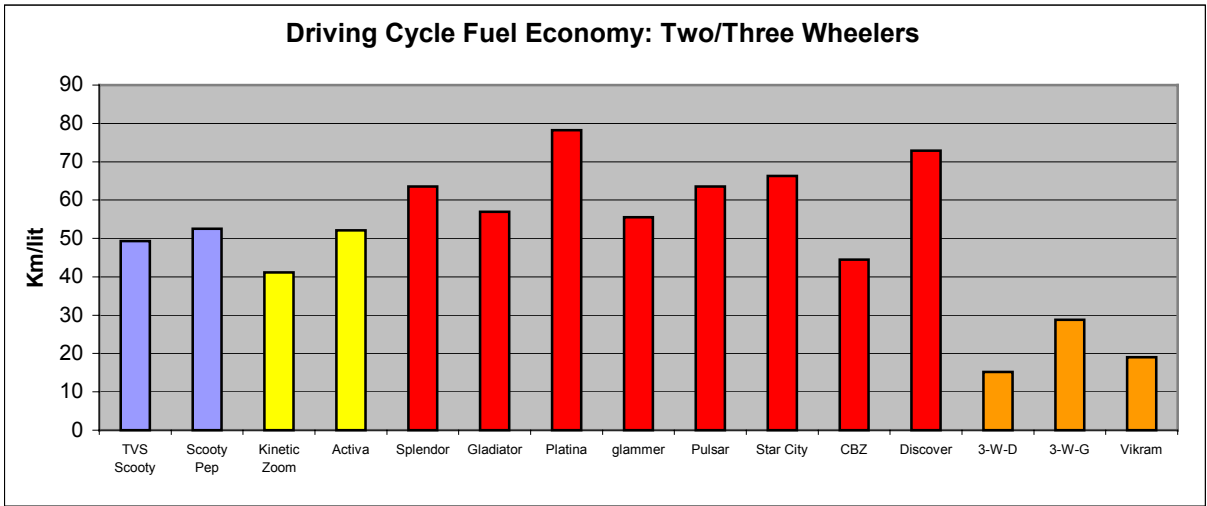


Fig-4

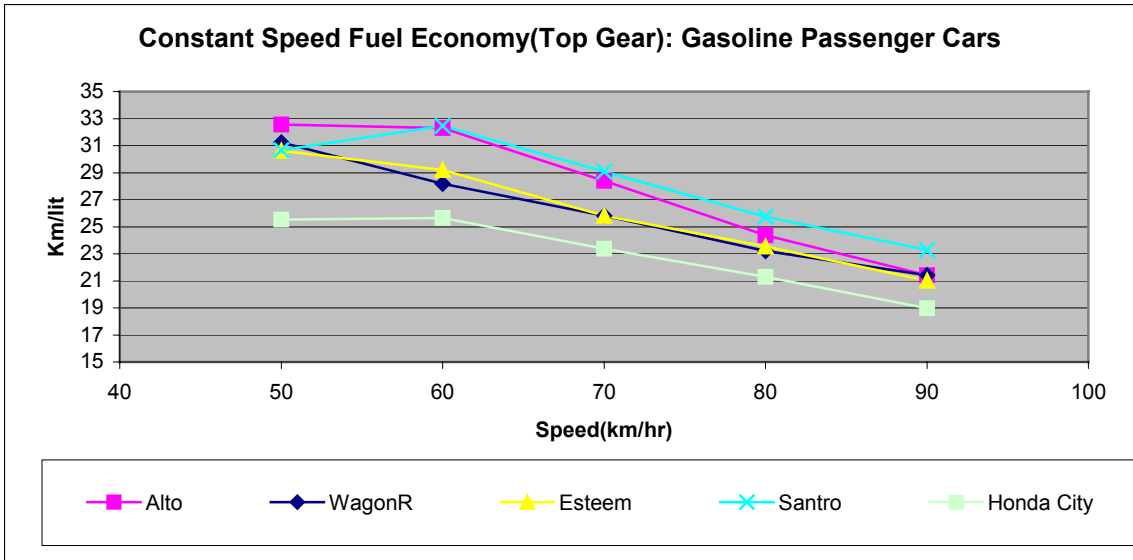


Fig-5

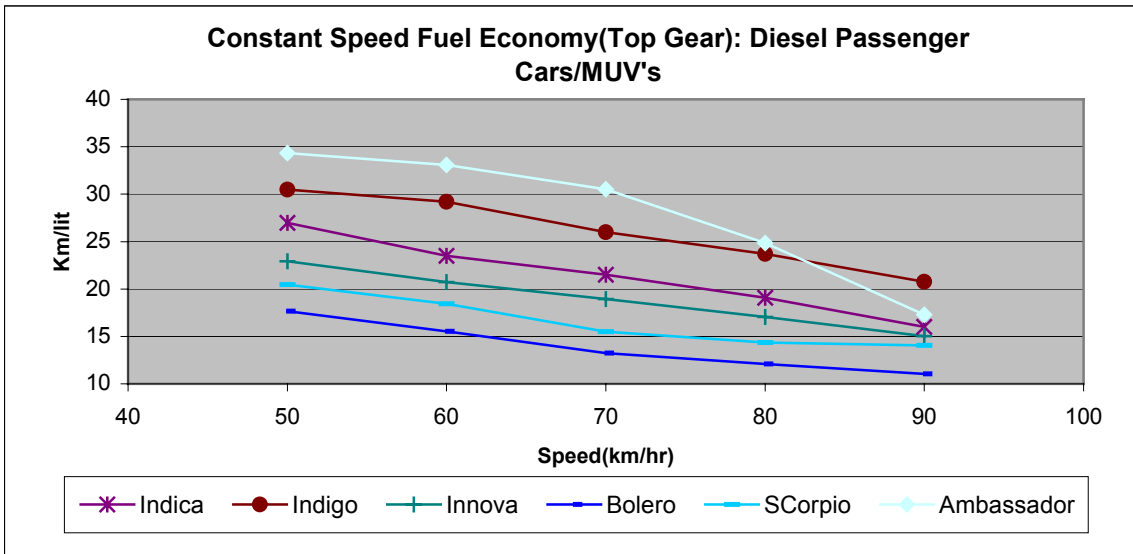


Fig-6

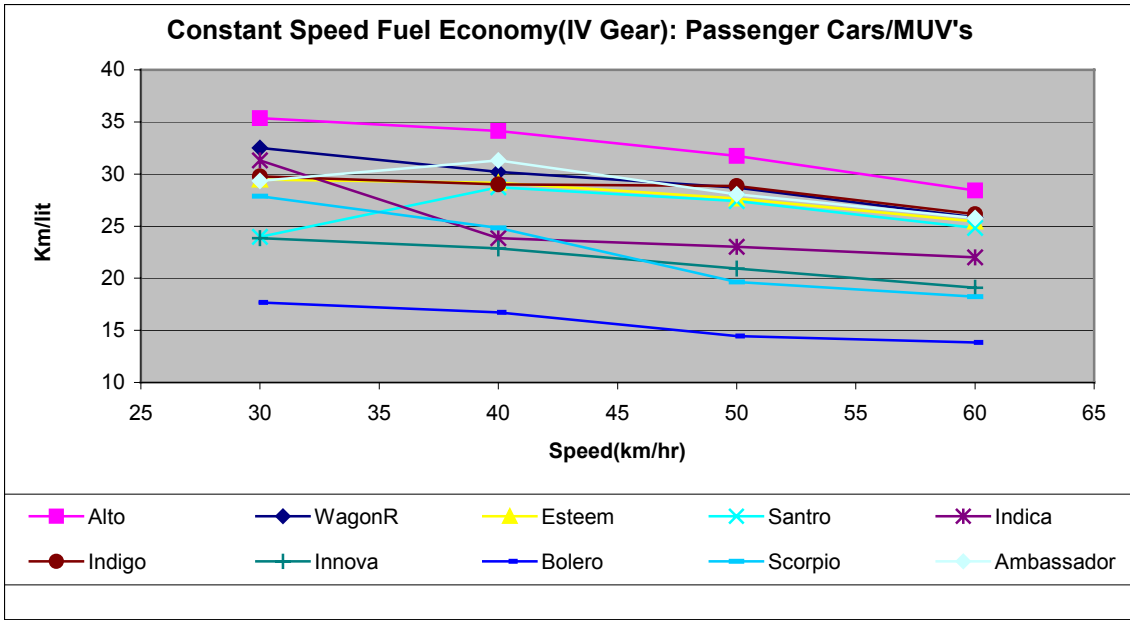


Fig-7

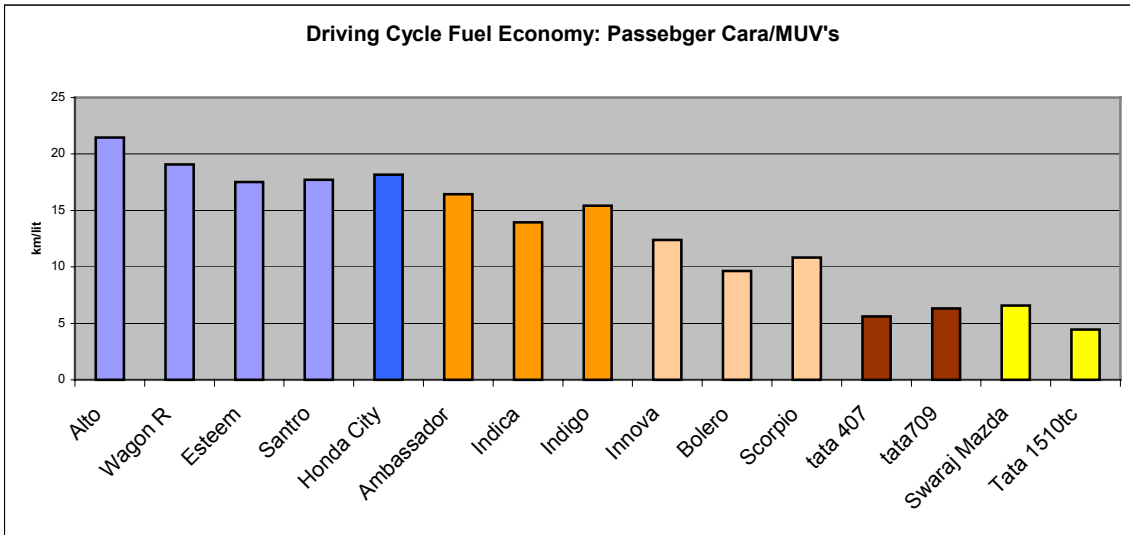


Fig-8