

GOVERNMENT OF INDIA  
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

**LOK SABHA**  
**UNSTARRED QUESTION No. 96**  
TO BE ANSWERED ON 21.07.2015

**Emissions of Carbon Dioxide**

96. SHRI RAJESH RANJAN:

Will the Minister of ENVIRONMENT, FORESTS AND CLIMATE CHANGE be pleased to state:

- (a) whether the Government has any mechanism to monitor the average CO<sub>2</sub> emissions (grams/vehicle-km) for light-duty and heavy-duty vehicles;
- (b) if so, the details thereof and if not, the reasons therefor;
- (c) the details of internationally proposed reduction in average CO<sub>2</sub> emissions (grams/vehicle-km) for light-duty and heavy-duty vehicles;
- (d) whether the Government has finalised a projected reduction in average CO<sub>2</sub> rate (grams/vehicle-km) for light-duty and heavy-duty vehicles; and
- (e) if so, the details thereof along with the proposed mechanism for the same and if not, the reasons therefor?

**ANSWER**

MINISTER OF STATE (INDEPENDENT CHARGE) FOR ENVIRONMENT, FOREST AND CLIMATE CHANGE  
(SHRI PRAKASH JAVADEKAR)

- (a) and (b) According to the information received from the Central Pollution Control Board (CPCB), CO<sub>2</sub> has not been recognised as an air pollutant. There is a mechanism of monitoring CO<sub>2</sub> emissions using dynamometer testing (chassis dynamometer in case of petrol based vehicles and engine dynamometer on diesel based heavy duty vehicles). The testing of emissions of CO<sub>2</sub> and various pollutant from vehicles is done by dynamometer testing wherein a vehicle is attached to a dynamometer and made to run on specified driving cycles, under the road simulated conditions and the emissions (including CO<sub>2</sub> emissions) from vehicles are measured.  
CPCB in collaboration with Automotive Research Association of India (ARAI) in the year 2007 had carried out emission monitoring for CO<sub>2</sub> and various pollutants during a study relating to calculating emission factors from vehicles. These tests were conducted on different types of vehicles using different types of fuels. However, there are no standards prescribed for CO<sub>2</sub> emissions from vehicles in the country.
- (c) The CO<sub>2</sub> emission standards exist in European Union, EURO Standards.
- (d) and (e) In the country, no standards have been fixed for CO<sub>2</sub> emissions from Light and Heavy Duty Vehicles.

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