

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS**

**LOK SABHA
UNSTARRED QUESTION NO. 4013
TO BE ANSWERED ON 23.12.2015**

DESIGN OF BOGIES

†4013. SHRI YOGI ADITYA NATH:

Will the Minister of RAILWAYS be pleased to state:

- (a) whether the Government has started work on improving the design of existing rail bogies;**
- (b) if so, the details thereof; and**
- (c) the steps taken by the Government for making the rail bogies environment friendly?**

ANSWER

**MINISTER OF STATE IN THE MINISTRY OF RAILWAYS
(SHRI MANOJ SINHA)**

(a) & (b): Yes, Madam. Improving the design of coaches is a continual process. Coach design is generally improved to upgrade its crash-worthiness/ fire-worthiness/ energy efficiency/ comfort & aesthetics/ ride behavior or reduction in maintenance requirements.

(c): Indian Railways in association with DRDO (Defence Research and Development Organization) has developed Bio-toilets which are being installed in passenger coaches to mitigate the problem of direct discharge of human waste on the tracks and platform aprons at stations. Also Integral Coach Factory, Chennai is manufacturing coaches from Green energy, i.e. it is generating more electricity by the Wind energy than it is using for the coach production. Rail Coach Factory, Rae Bareli is also generating Solar powered electricity to meet its current production requirement.