

(d) if so, the quantum of energy generated through green sources currently; and

(e) whether Railways have done energy audit and are working on more energy efficient systems and if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF RAILWAYS (SHRI RAJEN GOHAIN): (a) and (b) Yes, Sir. Indian Railways proposes to harness 1000 Mega Watt (MW) solar and about 200 MW wind energy.

(c) and (d) Yes, Sir. On date, about 30 Mega Watt (MW) solar and 37 MW wind power is being harnessed.

(e) Yes, Sir. Indian Railways regularly carries out energy audits and so far about 650 audits have been done. Various measures have improved energy utilization by about 5% in the year 2016-17 over the previous year.

#### **Change of design in rolling stock**

2200. SHRI K. R. ARJUNAN: Will the Minister of RAILWAYS be pleased to state:

(a) whether it is a fact that Railways have started exploring a design change in its rolling stock to see if coal and other minerals can be carried in covered wagons instead of open ones to prevent coal dust from flying into the environment and also to expand the use of wagons;

(b) whether it is also a fact that Railways took a note of reports appeared regarding transportation of coal in open wagons and the issues concerning environmental damages; and

(c) if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF RAILWAYS (SHRI RAJEN GOHAIN): (a) Yes, Sir. Railways is exploring various options available for transportation of coal and other raw material in covered condition in open wagon so as to prevent fumes/dust from flying into the environment.

(b) Railways did take note of reports that appeared in the newspapers regarding transportation of coal in open wagons.

(c) For providing covers, various options are under study/trial for selection of cost effective best solution.