

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS**

**LOK SABHA
UNSTARRED QUESTION NO.1120
TO BE ANSWERED ON 02.03.2016**

USE OF DIESEL AND CNG

**1120. SHRI GAJANAN KIRTIKAR:
SHRI KAPIL MORESHWAR PATIL:
DR. SUNIL BALIRAM GAIKWAD:
SHRI SUDHEER GUPTA:
DR. J. JAYAVARDHAN:
KUNWAR HARIBANSH SINGH:
SHRI ASHOK SHANKARRAO CHAVAN:
SHRI BIDYUT BARAN MAHATO:**

Will the Minister of RAILWAYS be pleased to state:

- (a) whether the Railways is one of the largest consumer of diesel in the country;**
- (b) if so, the quantum and value of diesel consumed by the Railways annually;**
- (c) whether the Railways has restricted the use of Compressed Natural Gas (CNG) in local trains and if so, the details thereof;**
- (d) the expected reduction in consumption of diesel and its impact on carbon emissions in the railway sector and the average expenditure incurred on fuel of diesel, electricity and other sources of energy separately; and**
- (e) whether the Railways proposes to use alternative fuel including fuel derived from jatropha in trains and if so, the details thereof along with the steps taken/being taken by the Railways to extend the use of CNG in mail/express trains and reduce its dependency on polluting fuels?**

ANSWER

MINISTER OF STATE IN THE MINISTRY OF RAILWAYS

(SHRI MANOJ SINHA)

(a) & (e): A statement is laid on the Table of the House.

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF UNSTARRED QUESTION NO. 1120 BY SHRI GAJANAN KIRTIKAR, SHRI KAPIL MORESHWAR PATIL, DR. SUNIL BALIRAM GAIKWAD, SHRI SUDHEER GUPTA, DR. J. JAYAVARDHAN, KUNWAR HARIBANSH SINGH, SHRI ASHOK SHANKARRAO CHAVAN & SHRI BIDYUT BARAN MAHATO TO BE ANSWERED IN LOK SABHA ON 02.03.2016 REGARDING USE OF DIESEL AND CNG.

(a) Yes, Madam.

(b)

Year	Consumption of Diesel (KLs)	Cost of Diesel (Crores of ₹)
2012-13	2746335	13619.84
2013-14	2839228	18062.28
2014-15	2893841	16734.30

(c) No, Madam. So far, Railways have introduced use of Compressed Natural Gas (CNG) in local trains (DEMU Trains). Presently, 11 CNG Driving Power Cars (DPC) are working at Shakurbasti based DEMU rakes operative on Northern Railway and North Western Railway.

(d) (i) The expected reduction in consumption of diesel on CNG Diesel Power Car is 20-25%.

(ii) 6% reduction in carbon emission is expected in dual fuel operation with 20% substitution of diesel by CNG.

(iii) Expenditure on fuel:-

Year	Expenditure (₹ In Crores)	
	Diesel	Electricity
2012-13	13619.84	10487
2013-14	18062.28	11489
2014-15	16734.30	12332
Average of last 3 years	16138.81	11436

(e) (i) Yes, Madam. Railways has already introduced bio diesel (5% blended) in diesel locomotives for traction purpose. Railways are neutral to the source of producing biodiesel and it can be Jatropha or any other oil, provided the finished biodiesel meets the specification.

(ii) CNG has been introduced in Diesel Electric Multiple Unit (DEMU) type local trains.

(iii) CNG requires more storage space than diesel and is not suitable for use on locomotives for long distance mail/express trains.
