

GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS

**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 2698**  
**ANSWERED ON 11.08.2023**

**CNG KIT IN DIESEL / ELECTRIC RAILWAY ENGINE**

2698 DR. ANIL SUKHDEORAO BONDE:

Will the Minister of RAILWAYS be pleased to state:

- (a) whether Railways have developed and tested a kit with which Diesel and Electrical engines can run on CNG;
- (b) if so, the details thereof;
- (c) the time by which the commercial run of CNG engines is likely to take place; and
- (d) the ratio of cost variation between CNG and Diesel and Electrical run engines per 100 kilometer?

**ANSWER**

MINISTER OF RAILWAYS, COMMUNICATIONS AND  
ELECTRONICS & INFORMATION TECHNOLOGY  
(SHRI ASHWINI VAISHNAW)

(a) to (d) : A kit that facilitates mixing of diesel and natural gas (either LNG or CNG) and uses it as fuel for the same Diesel engines has been developed and is retro-fitted in Diesel engines of DEMU (Diesel Electric Multiple Unit) Trains for this purpose.

27 Diesel Power Cars of 1400 HP DEMU have been converted till date.

As per detailed tests carried out, there is a potential saving of approximately 30 litres of diesel per 100 kilometre, considering 20% substitution of HSD by CNG.

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