

GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS

**RAJYA SABHA**  
**UNSTARRED QUESTION NO.602**  
**ANSWERED ON 26.07.2024**

**DEVELOPMENT OF ENVIRONMENT FRIENDLY FUEL FOR RAILWAY  
OPERATIONS**

602 # SHRI ARUN SINGH:

Will the Minister of RAILWAYS be pleased to state:

- (a) the details of the success achieved by the Indian Railways Organization for Alternate Fuel (IROAF) towards developing environment friendly fuel and energy resources for railway operations; and
- (b) the number of trains running with CNG and hydrogen based hybrid engines at present?

**ANSWER**

MINISTER OF RAILWAYS, INFORMATION & BROADCASTING AND  
ELECTRONICS & INFORMATION TECHNOLOGY

(SHRI ASHWINI VAISHNAW)

(a) & (b): IROAF was formed to explore Alternate Fuel in Indian Railways. It has promoted use of blended Bio-Diesel and partial substitution of Diesel with CNG and LNG for traction purpose.

A pilot project for retro-fitment of Hydrogen Fuel cell on Diesel Electric Multiple Unit (DEMU) rake for traction purpose has also been taken up.

26 nos Diesel Power Cars (DPC) of Diesel Electric Multiple Unit (DEMU) rakes have been converted with CNG based propulsion system.

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