

GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT AND HIGHWAYS
RAJYA SABHA
UNSTARRED QUESTION NO-1998
ANSWERED ON-15/12/2021

HYDROGEN FUEL FOR PUBLIC TRANSPORT

1998. SHRI K.J. ALPHONS:

Will the Minister of ROAD TRANSPORT AND HIGHWAYS be pleased to state:-

- (a) whether it is possible to produce hydrogen fuelled public transport vehicles in the country;
- (b) the appropriate cost of a hydrogen fuelled bus; and
- (c) whether it is feasible to introduce such buses on a large scale in the public transport system?

ANSWER

THE MINISTER OF ROAD TRANSPORT AND HIGHWAYS

(SHRI NITIN JAIRAM GADKARI)

(a) To promote vehicles operating on hydrogen fuel, this Ministry has issued a notification, vide G.S.R. 889(E), dated 16.09.2016, for use of Hydrogen as an automotive fuel in the country. The specifications for Hydrogen for Internal Combustion Engine have been specified in Annexure IV-W of the said notification. 18% blend of Hydrogen with CNG (HCNG) has been notified by this Ministry vide GSR 585(E) dated 25th September 2020. This Ministry vide GSR 579(E) dated 23rd September 2020 has notified safety norms regarding hydrogen fuel cell vehicles and its components.

(b) and (c) Various hydrogen powered vehicles have been developed and demonstrated under projects supported by Government of India. These include 6 Fuel Cell buses (by Tata Motors Ltd.), 50 hydrogen enriched CNG (H-CNG) buses in Delhi (by Indian Oil Corporation Ltd. in collaboration with Govt. of NCT of Delhi), 2 hydrogen fuelled Internal Combustion Engine buses (by IIT Delhi in collaboration with Mahindra & Mahindra), fifteen hydrogen fuelled 3-wheelers (by IIT Delhi in collaboration with Mahindra & Mahindra), 2 Hydrogen-Diesel dual fuel cars (by Mahindra & Mahindra) and one fuel cell car (by CSIR-National Chemical Laboratory, CSIR-Central Electrochemical Laboratory and CSIR-National Physical Laboratory). However, commercialization of hydrogen fuelled bus has not been undertaken in India so far.
