LOK SABHA
UNSTARRED QUESTION No.745
TO BE ANSWERED ON 23rd July, 2026

AVAILABILITY OF E-20 PETROL FOR NON-COMPATIBLE VEHICLES

745. SHRI SHAHU SHAHAJI CHHATRAPATI:

पेट्रोलियम और प्राकृतिक गैस मंत्री

Will the Minister of PETROLEUM AND NATURAL GAS be pleased to state:

(a) whether the Government has made the sale of twenty per cent ethanol-blended petrol (E20) mandatory for all public and private fuel retailers across the country, thereby effectively phasing out E-10 and unblended petrol, if so, the details thereof;

(b) whether private oil marketing companies or specific retail outlets are permitted any exemption to sell lower ethanol-blended petrol to consumers whose vehicles are not E-20 compliant, if so, the details thereof;

(c) whether the Government has taken cognizance of reports regarding accelerated engine wear, reduced fuel efficiency and subsequent motor insurance claim disputes relating to older vehicles using E-20 fuel, if so, the details thereof; and

(d) the steps being taken by the Government to ensure that fuel compatibility options remain accessible for the millions of non-compatible two-wheelers and passenger vehicles currently on the road?

ANSWER

पेट्रोलियम और प्राकृतिक गैस मंत्रालय में राज्य मंत्री
(श्री सुरेश गोपी)

MINISTER OF STATE IN THE MINISTRY OF PETROLEUM & NATURAL GAS
(SHRI SURESH GOPI)

(a) & (b) : In accordance with the Government's policy for implementation of the Ethanol Blended Petrol (EBP) Programme, Oil Marketing Companies have been directed to supply Ethanol Blended Motor Spirit containing up to 20% ethanol, conforming to the relevant Bureau of Indian Standards (BIS) specifications, across all States and Union Territories.

Further, with effect from 1 April 2026, Ethanol Blended Motor Spirit with a minimum Research Octane Number (RON) of 95 has been notified under the relevant statutory provisions.

(c): The Ethanol Blended Petrol (EBP) Programme has been implemented through a phased, scientifically validated and consultative process involving NITI Aayog, automobile manufacturers, Oil Marketing Companies (OMCs), Automotive Research Association of India (ARAI), Society of Indian Automobile Manufacturers (SIAM), Indian Institute of Petroleum (IIP) and other technical institutions.

Ethanol is not a new fuel. It has been used globally for over a century, with countries such as Brazil operating higher ethanol blends for decades. In India, the Ethanol Blended Petrol (EBP) Programme commenced with a pilot in 2001, E5 was introduced in 2006, and although blending remained around 1.53% in 2013-14, it has since been increased progressively in a calibrated manner after creating the necessary production capacity, infrastructure and regulatory framework.

The rollout of higher ethanol blends was undertaken only after extensive consultation with automobile manufacturers, SIAM, ARAI, component manufacturers, testing agencies and Oil Marketing Companies (OMCs).

The Government has not received any widespread or substantiated complaints from vehicle manufacturers, automobile associations or consumer organisations regarding the use of E20 petrol with respect to fuel efficiency, engine performance, maintenance costs and the overall driving experience. The Government has, however, taken note of certain concerns raised in media and social media, which have been scientifically examined.

Extensive laboratory studies and field trials conducted by ARAI, SIAM, IOCL, IIP and automobile manufacturers covering parameters such as engine durability, drivability, startability, corrosion resistance, material compatibility, emissions and fuel efficiency have confirmed that E20 is safe for use under prescribed standards.

These studies also established that legacy vehicles do not exhibit any significant variation in performance or abnormal wear and tear due to E20. These extensive laboratory studies, field validation and real-world operating experience have not established any widespread adverse impact on vehicle performance due to E20 fuel.

The Government's assessment is based not only on laboratory research but also on large-scale experience after nationwide implementation. India witnesses approximately 8 crore vehicles visiting retail outlets every day (around 80% petrol vehicles).

This is evident from the fact that E15+ blended petrol has been in widespread use for over three-and-a-half years and E19-E20 fuel for over two-and-a-half years. More than 20 crore two-wheelers and over 3 crore petrol cars have been operating on these blends without any verified evidence of widespread engine failure or vehicle breakdown attributable to ethanol blending. Manufacturer service data confirm that there is no abnormal corrosion, wear or reduction in vehicle life due to E20 fuel. Manufacturers continue to honour warranty obligations for vehicles using E20 fuel, providing further confidence in its safety and reliability.

A leading OEM serviced 2.84 crore vehicles during FY 2025-26, including approximately 1.5 crore vehicles that were not originally certified as E20-compatible, and reported no E20-linked corrosion, abnormal wear or reduction in component life. A leading 2-wheeler company has reported similar field experience. One OEM recently stated that data from 1.4 crore E20-operated vehicles tracked over an extended period showed no evidence of ethanol-induced corrosion. ARAI reaffirmed that vehicles undergo rigorous international-standard validation before reaching consumers.

With regard to mileage, studies by Government agencies and automobile manufacturers indicate that fuel efficiency is influenced by several factors, including driving conditions, driving habits and vehicle maintenance. Any reduction in fuel economy in certain E10-designed vehicles is generally limited to about 3-5%, while E20 offers a higher-octane rating, superior anti-knock characteristics, cleaner combustion and smoother engine performance.

Automobile manufacturers, component suppliers, SIAM, ARAI, testing agencies and Oil Marketing Companies were associated with every stage of the scientific evaluation and phased rollout of E20. E20 was rolled out only after successful validation of fuel systems, engine durability, drivability, reasonable material compatibility and emissions performance. These studies also established that legacy vehicles do not exhibit any significant variation in performance or abnormal wear and tear due to E20.

According to SIAM and ARAI, E20 improves acceleration and ride quality while reducing carbon emissions. Ethanol's higher-octane number supports modern high-compression engines and its higher heat of vaporisation improves combustion efficiency.

The transition to E20 has also delivered significant national benefits. The Ethanol Blended Petrol Programme has saved over ₹1.97 lakh crore in foreign exchange, substituted nearly 316 lakh metric tonnes of crude oil, reduced around 952 lakh metric tonnes of CO_2 emissions and transferred over ₹1.66 lakh crore to farmers.

(d): The Government's policy is to progressively transition towards cleaner, more efficient and environmentally sustainable fuels in line with the National Policy on Biofuels and India's energy security and emission reduction objectives.

The transition to E20 has been phased, consultative and scientifically validated, following extensive consultations with automobile manufacturers, ARAI, SIAM, Oil Marketing Companies and other stakeholders. Material compatibility, engine durability, fuel systems, drivability, emissions and performance were comprehensively evaluated before rollout.

Having been scientifically validated and accepted by the automobile industry after extensive testing, there is no proposal to revert to E0/E10 petrol. The objective of public policy is to move forward with a superior fuel, not return to an inferior standard.

Maintaining parallel nationwide supply chains for E0, E10 and E20 petrol across more than one lakh retail outlets would significantly increase logistics complexity, inventory and handling costs. Public policy must balance consumer convenience with energy security, environmental sustainability and farmer welfare.

Once a cleaner and scientifically validated fuel has been adopted, the objective is to move forward with better technology, not revert to an inferior standard**.**

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