

**LOK SABHA**  
**UNSTARRED QUESTION No. 3967**  
**TO BE ANSWERED ON 19<sup>th</sup> December, 2024**

**BOOSTING 2G ETHANOL PRODUCTION TO REDUCE OIL IMPORTS**

3967. SHRI SELVAGANAPATHI T.M.:

पेट्रोलियम और प्राकृतिक गैस मंत्री

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

- (a) whether the Government is considering to boost 2G ethanol production and setting up of enzyme manufacturing facilities to reduce oil imports;
- (b) if so, the details thereof;
- (c) whether it is a fact that India would need about 13.5 billion litres of ethanol annually by 2025-26 and if so, the details thereof;
- (d) whether it is true that the Government has advised to all public sector oil marketing companies to set up plants for ethanol manufacturing; and
- (e) if so, the details thereof?

**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): To facilitate production of ethanol, Government had notified the “Pradhan Mantri JI-VAN (Jaiv Indhan- Vatavaran Anukool fasal awashesh Nivaran) Yojana” 2019, amended in 2024, to provide financial support for integrated bio-ethanol projects for setting up Advanced Biofuels projects in the country using lignocellulosic biomass and other renewable feedstock. The total financial outlay under the Yojana is Rs. 1969.50 crore for the period 2018-19 to 2028-29 of which financial assistance of more than Rs.908 crore has been approved to Public & Private Sector Companies. Indian Oil Corporation Limited (IOCL) Research & Development (R&D) is developing an indigenous process for Second Generation (2G) enzyme production. In addition, Department of Biotechnology also supports

research and innovation projects focused to develop indigenous 2G ethanol technologies including cellulolytic enzymes. Enzymes for First Generation (1G) ethanol are manufactured domestically.

(c): As per the Roadmap for Ethanol Blending in India 2020-25, the total estimated requirement of ethanol in Ethanol Supply Year (ESY) 2025-26 is 1350 crore litres including 1016 crore litres for ethanol under Ethanol Blended Petrol (EBP) programme.

(d) & (e): Ethanol production plants are primarily set up by entrepreneurs/companies/co-operative societies etc. depending upon the techno-economic viability of the project as per their investment plans. Further, Public Sector Oil Marketing Companies are setting up five commercial Second Generation plants under the PM JI-VAN Yojana. Apart from plants under PM JI-VAN Yojana, Hindustan Petroleum Corporation Limited has two First Generation ethanol plants at Sugauli and Lauriya in Bihar, Bharat Petroleum Corporation Limited is setting up a First Generation ethanol plant at Bargarh, Odisha and IOCL has set up a Third Generation ethanol plant at Panipat, Haryana.

\*\*\*\*\*