

GOVERNMENT OF INDIA  
MINISTRY OF PETROLEUM AND NATURAL GAS

**RAJYA SABHA**  
**UNSTARRED QUESTION No. 772**  
ANSWERED ON 29.07.2024

**Production of 2G and 3G biofuels**

772. SMT. PRIYANKA CHATURVEDI:  
SMT. RANJEET RANJAN:

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

- (a) whether National Biofuel Policy 2018 includes provisions for the production of 2G and 3G biofuels;
- (b) the number of 2G and 3G biofuel plants operational in the country, with State-wise and district-wise data; and
- (c) the steps Government has taken to encourage the establishment of more 2G and 3G biofuel plants in the country?

**ANSWER**

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

(a): The National Policy on Biofuels (NPB)-2018 as amended in 2022, categorises biofuels as 'Basic Biofuels' and 'Advanced Biofuels'. Advanced Biofuels *inter-alia* includes Second Generation (2G) ethanol and Third Generation (3G) ethanol.

(b) & (c): In order to encourage the establishment of 2G bio-ethanol plant using cellulosic and lignocellulosic biomass including petrochemical route and other feedstocks, Government has notified the "Pradhan Mantri JI-VAN (Jaiv Indhan-Vatavaran Anukool fasal awashesh Nivaran) Yojana" for providing financial support for setting up Second Generation (2G) bioethanol projects in the country.

Under this scheme, six commercial 2G bio-ethanol plants and four demonstration 2G bio-ethanol plants have been approved. The details are as under:

<b>SI No.</b>	<b>State</b>	<b>District</b>	<b>Entities</b>	<b>Project Type</b>
1.	Haryana	Panipat	IndianOil Corporation Ltd.	Commercial
2.	Odisha	Bargarh	Bharat Petroleum Corporation Ltd.	Commercial
3.	Punjab	Bathinda	Hindustan Petroleum Corporation Ltd.	Commercial
4.	Assam	Numaligarh	Numaligarh Refineries Limited	Commercial
5.	Karnataka	Davangere	Mangalore Refinery and Petrochemicals Ltd	Commercial
6.	Andhra Pradesh	Nandyal	RCPL	Commercial
7.	Haryana	Panipat	IndianOil Corporation Ltd.	Demonstration
8.	Bihar	Sagauli	Hindustan Petroleum Corporation Ltd.	Demonstration
9.	Maharashtra	Sangli	Lignopura Agrotech Pvt Ltd	Demonstration
10.	Karnataka	Sameerwadi	Godavari Biorefineries Ltd	Demonstration

The 2G bio-ethanol plant set up by IOCL at Panipat, Haryana has been dedicated to the Nation on 10<sup>th</sup> August, 2022. The commercial bio-ethanol plants at Bathinda, Bargarh and Numaligarh are in advanced stages of construction.

IOCL has also set up a Third Generation bio-ethanol plant at Panipat, Haryana.

\*\*\*\*\*