

GOVERNMENT OF INDIA
MINISTRY OF PETROLEUM AND NATURAL GAS

RAJYA SABHA
UNSTARRED QUESTION No. 3657
ANSWERED ON 03.04.2023

ETHANOL BIO-REFINERIES

3657. SHRI VIKRAMJIT SINGH SAHNEY:

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

- (a) whether it is a fact that India will contribute 25 per cent of global fuel demand by 2040 and achieve 20 per cent ethanol blending in petrol by 2025 as per Government, if so, details thereof with timeline;
- (b) whether Government is also setting up five 2G ethanol biorefineries in places, including, Panipat (Parali) in Haryana, Bathinda in Punjab, Bargarh (Parali) in Odisha, Numaligarh (Bamboo) in Assam and Devangere in Karnataka;
- (c) if so, details of time required to complete above ethanol bio-refineries with financial outlay; and
- (d) details of amount of ethanol produced in the country in last five years, year-wise, Statewise?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF PETROLEUM & NATURAL GAS

(SHRI RAMESWAR TELI)

(a): As per International Energy Agency (IEA)'s publication 'India Energy Outlook 2021', India accounts for nearly one-quarter of growth in global energy demand from 2019-40 in the STEPS (Stated Policies Scenario).

Government, since 2014, has taken several measures to increase production and utilization of ethanol in the country which includes expansion of feedstock for production of ethanol; administered price mechanism for procurement of ethanol under the Ethanol Blended Petrol (EBP) Programme; lowered GST rate to 5% on ethanol for EBP Programme; amendment in Industries (Development & Regulation) Act for free movement of ethanol across states for blending; interest subvention scheme for enhancement and augmentation of ethanol production capacity in the country; regular floating of Expression of Interest (EoI) by Public Sector Oil Marketing Companies (OMCs) for procurement of ethanol.

Further, the E-20 (20% ethanol blended petrol) fuel has already been launched in February, 2023.

As per Roadmap for ethanol blending in India 2020-25 prepared by Niti Aayog, demand projection of ethanol for the period up to 2025-26 is as below.

Ethanol Supply Year (ESY)	Projected MS sale (Crore Litres)	Blending (In %)	Ethanol requirement (Crore Litres)
2022-23	4515	12	542
2023-24	4656	15	698
2024-25	4939	20	988
2025-26	5080	20	1016

(b) & (c): In March, 2019, Government had notified the “Pradhan Mantri JI-VAN (Jaiv Indhan - Vatavaran Anukool fasal awashesh Nivaran) Yojana” for providing financial support for setting up Second Generation (2G) ethanol projects in the country using lignocellulosic biomass and other renewable feedstock. The total financial outlay for the scheme is Rs. 1969.50 crore for the period from 2018-19 to 2023-24. Since commencement of PM JI-VAN Yojana, financial assistance to the following 2G projects have been approved:

Sl. No.	Entities	State	Project Type	Approved Financial Assistance (Rs. in Crores)
1.	IndianOil Corporation Ltd.	Haryana	Commercial	150
2.	Bharat Petroleum Corporation Ltd.	Odisha	Commercial	150
3.	Hindustan Petroleum Corporation Ltd.	Punjab	Commercial	150
4.	Numaligarh Refineries Ltd.	Assam	Commercial	150
5	Mangalore Refinery and Petrochemicals Ltd	Karnataka	Commercial	100
6	Shell India Markets Pvt Ltd.	Karnataka	Commercial	150
7	Indian Oil Corporation Ltd.	Haryana	Demonstration	15
8	Hindustan Petroleum Corporation Ltd.	Bihar	Demonstration	15
9	Chempolis India Pvt Ltd.	Punjab	Demonstration	15

Such projects on an average take two to three years for commissioning.

(d): The details of amount of ethanol procured by Public Sector OMCs under the EBP Programme during the last five years, year-wise, State-wise are at **Annexure**.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (d) OF RAJYA SABHA UNSTARRED QUESTION No. 3657 FOR 03.04.2023 REGARDING ETHANOL BIO-REFINERIES.

The ethanol procured by Public Sector OMCs during last five Ethanol Supply Year (ESY):

Quantity of ethanol procured by PSU OMCs (Crore Litre)					
Ethanol Supply Year (ESY)	2017-18	2018-19	2019-20	2020-21	2021-22
State					
Andhra Pradesh	6.49	10.16	5.34	13.51	17.59
Assam	0.00	0.00	0.00	0.00	4.09
Bihar	6.27	6.84	8.39	9.90	14.19
Chhattisgarh	0.00	3.26	4.70	7.62	7.73
Delhi	10.91	8.40	6.69	7.02	11.62
Goa	1.18	1.21	0.79	2.12	2.55
Gujarat	6.68	13.36	12.36	18.41	22.37
Haryana	7.35	12.38	13.07	14.44	21.84
Himachal Pradesh	0.00	0.07	1.62	2.75	2.73
Jammu & Kashmir	0.00	0.00	0.00	0.52	0.90
Jharkhand	0.00	0.07	2.41	4.17	6.23
Karnataka	17.81	19.40	18.77	24.71	33.44
Kerala	0.00	0.00	0.00	8.97	19.59
Madhya Pradesh	1.79	9.31	10.24	13.77	17.39
Maharashtra	35.99	29.78	21.92	39.48	55.98
Odisha	0.00	0.00	0.35	4.43	10.06
Punjab	6.56	10.40	11.53	14.20	16.72
Rajasthan	0.10	4.10	2.67	12.91	20.45
Tamil Nadu	0.99	7.48	3.52	23.27	35.76
Telangana	10.90	8.88	4.65	14.23	18.45
Uttar Pradesh	34.01	38.70	40.15	53.19	63.93
Uttarakhand	2.00	2.45	2.44	2.82	2.71
West Bengal	1.47	2.30	1.44	3.10	12.42
Total	150.41	188.57	173.03	295.55	418.73

Source: BPCL (on behalf of PSU OMCs)