

PRESS INFORMATION BUREAU

(Research Unit) Ministry of Information and Broadcasting Government of India



PM JI-VAN

Pradhan Mantri Jaiv Indhan - Vatavaran Anukool Fasal Awashesh Nivaran Yojana

(Ministry of Petroleum & Natural Gas)

June 22, 2022

"Biofuels can help reduce import dependency on crude oil. They can contribute to a cleaner environment."

Prime Minister Narendra Modi¹

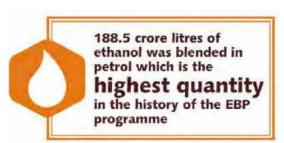
Introduction²

In order to encourage setting up of second generation (2G) bio-fuel plants, the Cabinet Committee on Economic Affairs (CCEA) approved the PM JI-VAN (Jaiv Indhan-Vatavaran Anukool fasal awashesh Nivaran) on February 28, 2019 for providing support to integrated bio-ethanol projects, using lignocellulosic biomass and other renewable bio stock.



Background

Ministry of Petroleum & Natural Gas (MoP&NG) has targeted to achieve 10% blending percentage of ethanol in petrol by 2022. The 'National Policy on Biofuels' notified by the



Government in 2018 envisaged an indicative target of 20% ethanol blending in petrol by year 2030.³ The Ethanol Blended Petrol (EBP)⁴ programme was launched in 2003 for undertaking blending of ethanol in petrol to address environmental concerns. Despite efforts of the Government, the highest ever ethanol procurement stands around

188.5 crore litres for 2019-20.

¹ https://www.narendramodi.in/text-of-pm-s-speech-at-the-inauguration-of-world-biofuel-day-2018--541189

² https://pib.gov.in/Pressreleaseshare.aspx?PRID=1566711

³ https://pib.gov.in/PressReleaseIframePage.aspx?PRID=1831289

⁴ https://mopng.gov.in/en/refining/ethanol-blended-petrol

Therefore, an alternate route viz. 2G Ethanol from biomass and other wastes was explored by MoP&NG to bridge the supply gap for EBP programme. In this direction, "Pradhan Mantri JI-VAN Yojana" was launched as a tool to create <u>2G Ethanol capacity</u>⁵ in the country and attract investments in this new sector.⁶

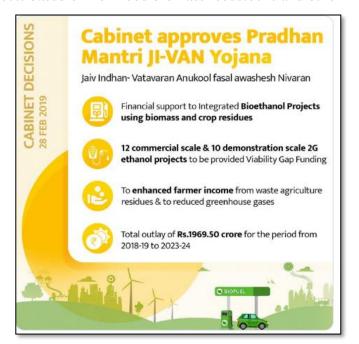
Objectives⁷

PM JI-VAN envisages setting up of **12 commercial scale** 2G bioethanol projects and **10 demonstration scale** 2G bioethanol projects based on non-food biomass feedstocks and other

renewable feedstocks with a total financial outlay of **Rs. 1969.50 crore.**

The scheme will provide support to these 2G bioethanol Projects with a Viability Gap Funding in two phases:

- Phase-I (2018-19 to 2022-23): wherein six commercial projects and five demonstration projects will be supported.
- Phase-II (2020-21 to 2023-24): wherein remaining six commercial projects and five demonstration projects will be supported.



Budget breakdown			
Support to 12 commercial projects	Rs. 1800 crore		
Support to 10 demonstration Projects	Rs 150 crore		
Administrative charges to Centre for High Technology (CHT)	Rs. 19.50 crore		
Total	Rs. 1969.50 crore		

The <u>Scientific Advisory Committee (SAC)</u>⁸ of Ministry of Petroleum & Natural Gas is the Nodal body for recommending the beneficiaries/ projects under the said scheme. <u>Centre for High Technology (CHT)</u>⁹, a technical body under the aegis of MoP&NG, is the implementation agency for the scheme.

⁵ http://petroleum.nic.in/sites/default/files/biofuels.pdf

⁶ https://pib.gov.in/Pressreleaseshare.aspx?PRID=1566711

⁷ https://pib.gov.in/Pressreleaseshare.aspx?PRID=1566711

⁸ https://mopng.gov.in/files/rti/DocumentUnder4RTI2005/refrti08.pdf

⁹ https://www.cht.gov.in/

List of 12 2G Ethanol Projects¹⁰

List of 12 2G Ethanol projects			
Company	Location	Capacity (kilo	Feed stock
		litres per day)	
Indian Oil	Panipat (Haryana)	100	Rice straw
Corporation	Gorakhpur (Uttar Pradesh)	100	Rice straw
Limited (IOCL)	Dahej (Gujarat)	100	Cotton stalk;
			MSW being
			explored
Bharat Petroleum	Bargarh (Odisha)	100	Rice straw
Corporation	Bina (Madhya Pradesh)	100	Wheat & soya
Limited (BPCL)			stalk
	Bhandara (Maharashtra)	100	Rice straw
Hindustan	Bhatinda (Punjab)	100	Rice straw/cotton
Petroleum			stalk
Corporation	Badaun (Uttar Pradesh)	100	Rice
Limited (HPCL)			straw/bagasse
	Muzzafarpur (Bihar)	3 (demo plant)	Rice straw
	East/West Godavari	100	Rice straw/maize
	(Andhra Pradesh)		
Numaligarh	Numaligarh (Assam)	185	Bamboo
Refinery Limited			
(NRL)			
Mangalore	Davangere (Karnataka)	60	Corn cob
Refinery &			
Petrochemicals			
Ltd (MRPL)			

Benefits of the Scheme:

Apart from supplementing the targets envisaged by the Government under EBP programme, the scheme will also have the following benefits:

- a) Meeting Government of India vision of reducing import dependence by way of substituting fossil fuels with Biofuels.
- b) Achieving the GHG emissions reduction targets through progressive blending/substitution of fossil fuels.
- c) Addressing environment concerns caused due to burning of biomass/ crop residues & improving health of citizens.
- d) Improving farmer income by providing them remunerative income for their otherwise waste agriculture residues.
- e) Creating rural & urban employment opportunities in 2G Ethanol projects and Biomass supply chain.

¹⁰ https://mopng.gov.in/files/TableManagements/2020-12-08-115045-xyd7b-AR 2019-20E.pdf

- f) Contributing to Swachh Bharat Mission by supporting the aggregation of non-food biofuel feedstocks such as waste biomass and urban waste.
- g) Indigenizing of 2G Biomass to Ethanol technologies.

Other Initiatives Taken by Government for Ethanol Blending

A "Roadmap for Ethanol Blending in India 2020-25¹¹" was released by Prime Minister Narendra Modi in June, 2021 which lays out a detailed pathway for achieving 20% ethanol blending. The report suggested: (i) an annual roadmap for production and supply of ethanol till 2025-26, and (ii) systems for countrywide marketing of ethanol.



India is one of the fastest growing economies in the world and is endowed with abundant renewable energy resources. Biofuels are derived from renewable biomass resources and therefore provide a strategic advantage to promote sustainable development and supplement conventional energy resources in meeting the **rapidly increasing requirements for transportation fuels associated with high economic growth**, as well as in **meeting the energy needs of India's vast rural population.**

References

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https://www.cht.gov.in/

https://www.niti.gov.in/sites/default/files/2021-06/EthanolBlendingInIndia_compressed.pdf

AG/HP/RC/MZ/MK

¹¹ https://www.niti.gov.in/sites/default/files/2021-06/EthanolBlendingInIndia compressed.pdf