

LOK SABHA
UNSTARRED QUESTION No. 1562
TO BE ANSWERED ON 13th February, 2025

Enhancing Petrochemical Production in Petroleum and Natural Gas Sector

1562.SHRI BENNY BEHANAN:

पेट्रोलियम और प्राकृतिक गैस मंत्री

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

- (a) whether the Government has undertaken any measures/feasibility studies to increase petrochemical production in the petroleum and natural gas sector;
- (b) if so, the details and the current status thereof;
- (c) the details of the organizations/ institutions currently conducting research in the field of petrochemical production in the country;
- (d) the specific research initiatives/collaborations undertaken/being undertaken by the Government to enhance production capacity and efficiency;
- (e) the steps taken/being taken by the Government to promote innovation and investment in the petrochemical production sector; and
- (f) the manner in which the Government is addressing the challenges related to technology, raw material availability and environmental concerns in this regard?

ANSWER

पेट्रोलियम और प्राकृतिक गैस मंत्रालय में राज्यमंत्री
(श्री सुरेशगोपी)

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

(a) to (f) Oil and gas companies in India already produce various petrochemicals through associated integrated cracker units. Many of these companies have plans to increase the production of petrochemicals by 2030 with enhancement in capacity. These include projects for production of Poly Vinyl Chloride (PVC), Polypropylene (PP), Butyl Acrylate, High Density Polyethylene (HDPE), Low Density Polyethylene (LDPE), Iso Propyl Alcohol, Epoxy, Polyester etc.

The Department of Chemicals and Petrochemicals (DCPC) has informed that Petroleum, Chemical and Petrochemical Investment Regions (PCPIRs) are being set up to promote Petroleum, Chemical and Petrochemical sectors in an integrated and environmental friendly manner on a large scale. At present three PCPIRs are being implemented in the States of Gujarat (Dahej), Andhra Pradesh (Vishakhapatnam) and Odisha (Paradeep) to promote investment and industrial development in these sectors.

The status of implementation and execution of PCPIR projects are as per **Annexure –I**.

DCPC has further informed that it implements a Scheme for setting up Centres of Excellence (CoEs). Under this Scheme, the Department provides grant-in-aid upto 50% of the project cost, subject to an upper limit of Rs. 5 crore, to identified research institutes with the objective of improving the existing technology and research in the country and to promote development of new applications. The emphasis is on modernization and

upgradation of existing manufacturing processes as well as improving the quality of products. 18 CoEs have been approved so far, the details of which are as per **Annexure -II**.

The raw materials for petrochemicals are Crude, Gas and Naphtha which are widely available. DCPC has also informed that it has taken the exercise of import duty rationalization for the entire value chain of the Petrochemical products for boosting the domestic production.

Further, to address environmental concerns, the Ministry of Environment, Forest & Climate Change (MoEFCC) has issued Extended Producer Responsibility (EPR) policy. The policy aims to reduce plastic waste and promote sustainable practices. The policy involves producers, importers, and brand owners (PIBOs) in the management of plastic waste. PIBOs are responsible for ensuring that their plastic packaging waste is processed through recycling, reuse, or end-of-life disposal.

Annexure –I

ANNEXURE REFERRED TO IN REPLY TO PART (a) to (f) OF LOK SABHA UNSTARRED QUESTION NO. 1562 TO BE ANSWERED ON 13.02.2025 REGARDING ENHANCING PETROCHEMICAL PRODUCTION IN PETROLEUM AND NATURAL GAS SECTOR.

The status of implementation and execution of PCPIR projects are as follows:-

Indicator	Gujarat	Andhra Pradesh	Odisha	Total
Location/ Region	Dahej, Bharuch	Vishakhapatnam– Kakinada	Paradeep	-
Approval	Feb, 2009	Feb, 2009	Dec, 2010	-
Total Area (Sq. kms.)	453.00	640.00	284.15	1377.15
Anchor Tenant	ONGC Petro Additions Limited (OPaL)	--	Indian Oil Corporation Ltd. (IOCL)	-
Investments made (Rs. Crore)	1,28,509	58,918	73,518	2,60,945
Employment generated (No.)	2,45,140	86,123	40,000	3,71,263
No. of Chemical Units	626	150	48	824

Annexure –II

ANNEXURE REFERRED TO IN REPLY TO PART (a) to (f) OF LOK SABHA UNSTARRED QUESTION NO. 1562 TO BE ANSWERED ON 13.02.2025 REGARDING ENHANCING PETROCHEMICAL PRODUCTION IN PETROLEUM AND NATURAL GAS SECTOR

List of Centres of Excellence

No.	Location of Centre of Excellence (CoE)	Title	Date of approval	GoI approved grant (in Rs. crore)
1.	National Chemical Laboratory, Pune	Sustainable Polymer Industry to research & innovation	April, 2011	6.00
2.	Central Institute of Petrochemical Engineering & Technology, Chennai	Green Transport Network (GREET)	April, 2011	6.00
3.	CIPET, Bhubaneswar	Sustainable Green Materials	April, 2013	6.00
4.	Indian Institute of Technology, Delhi	Advanced Polymeric Materials	March, 2013	6.00
5.	Indian Institute of Technology, Guwahati	Sustainable Polymers	April, 2013	6.00
6.	Indian Institute of Technology, Roorkee	Process Development, Wastewater Management in Petrochemical Industries	February, 2019	4.40
7.	CIPET, Bhubaneswar	Bio-engineered Sustainable Polymeric Systems	February, 2019	5.00
8.	National Chemical Laboratory, Pune	Specialty Polymers for Customised Additive Manufacturing	February, 2019	2.80
9.	CSIR - North East Institute of Science & Technology (CSIR-NEIST)	Polymers, Their Composites and Polymeric Membranes for Sustainable Development of Petroleum Industries	December, 2020	4.99
10.	CSIR-IICT, Hyderabad	Polymer Coatings for Decorative, Protective and Strategic Applications	December, 2020	4.86
11.	CIPET, Bhubaneswar	Manufacturing of Next Generation Bio-Medical Devices	December, 2020	5.00
12.	IIT, Guwahati	Sustainable & innovative design and manufacturing of polymer toys	February, 2022	5.00

13.	Indian Rubber Manufacturers Research Association, Thane	Design and Development for Value added Toys of Rubber and Allied Finished Products	February, 2022	4.93
14.	Indian Institute of Technology (Indian School of Mines), Dhanbad	Coal to Acetylene and Fine Chemicals	September, 2024	2.61
15.	Indian Institute of Technology, Madras	Biodegradable Packaging Materials (BioPack)	September, 2024	4.95
16.	CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram	Performance Chemicals and Sustainable Polymers for Industrial Applications	September, 2024	5.00
17.	Indian Institute of Technology, Kanpur	Specialty Chemicals	September, 2024	4.99
18.	CSIR-Advanced Materials and Processes Research Institute (CSIR-AMPRI), Bhopal	Transparent and Biocompatible Metal-Polymer Composite Based X-ray, Gamma ray and Neutron Shields for Window and Personal Protecting Apparels	September, 2024	1.95
