



IndianOil

PROPEL[®]

100% TRUST. 100% VALUE.

A range of world-class petrochemicals

Innovation *at the **Core***



IndianOil at a Glance

IndianOil is the flagship national oil company and is one of India's largest commercial enterprises. IndianOil's core business is refining, transportation and marketing of petroleum products. Over the years, the Corporation has expanded its operations across the hydrocarbon value chain - upstream into oil & gas exploration & production, and downstream into petrochemicals, besides diversifying into natural gas and alternative energy resources.

IndianOil continues to expand its business operations abroad through its overseas ventures in Sri Lanka, Mauritius, Singapore, Sweden, The Netherlands, UAE, USA, Nepal, Myanmar and Bangladesh.

IndianOil is committed to creating positive life experiences for its customers through its portfolio of products & services, boosting energy access across socio-economic divides; enhancing energy efficiency in production, refining, transportation, marketing & consumption; and adding to energy sustainability through promotion of green fuels. Guided by its vision to be 'A Globally Admired Company', IndianOil aims to create value by solving the issues being faced by people, society and our Planet Earth through the power of technology.

Visit **www.iocl.com** to know more.



US\$ 105 billion
(₹ 8,664 billion)
Revenue 2023-24



30,000+ Employees



116th Rank Fortune
"Global 500" listing
2024



Presenting **PROPEL** *The IndianOil* **Promise**

IndianOil's corporate philosophy rests on enhancing the quality of life of people, society and its stakeholders while sustaining the Earth. We pursue business sustainability.

The brand name **PROPEL** implies propulsion or impetus with promise of growth to our customers' business. It denotes 100% trust, 100% value. It is backed by the promise of quality and commitment that IndianOil puts into its business. Customers stand to benefit from IndianOil's experience & expertise in the petroleum and petrochemicals businesses besides a pan-India service delivery network.

Under the umbrella brand **PROPEL**, IndianOil offers a full range of products

- Polypropylene (PP) • High Density Polyethylene (HDPE) • Linear Low Density Polyethylene (LLDPE) • Linear Alkyl Benzene (LAB) • Purified Terephthalic Acid (PTA) • Mono Ethylene Glycol (MEG) • 1,3-Butadiene • Butyl Acrylate
- Styrene Butadiene Rubber



PROPEL Providing comprehensive solutions, creating value

IndianOil is committed to creating positive life experiences for its customers through its portfolio of products & services. **PROPEL** brand of petrochemicals covers over 80% of all conceivable applications of plastics. Our solutions and focus areas are:



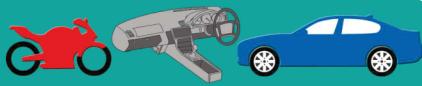
Consumer Electronics:

Advanced moulding & composites - contributing to a better quality of life.



Packaging, Labels, Films:

Providing packaging solutions for liquids, oil, confectionery, grooming, healthcare, food etc. Helping extend product life and shelf life of food and medical products.



Automobiles: Advanced moulding & composites for doing our bit for the environment through enhancing fuel efficiency by reducing vehicle weight and contributing towards a more mobile society.



Agriculture & Infrastructure:

Environment & life solutions for improving production & efficiency in agriculture, fisheries and infrastructure industries while contributing to resource & energy conservation.



Paint & Coatings: Water-based polymers for Architectural and Industrial paints.



Healthcare: Contributing to health maintenance, better diagnostics and medical efficiency.

Cutting-edge Research & Development

IndianOil has expanded its technology platforms, integrated its core technologies and accelerated development of new technologies in emerging fields. Leveraging close collaboration among its Divisions, it is able to respond swiftly to market changes. Resting on the cornerstones of Sustainability, Health and Comfort, IndianOil's research and product application effort aims to bring out differentiated solutions with clear value propositions in a competitive landscape.

Being one of the core values of IndianOil, the Company believes that Innovation is the key to being the market leader in the oil & gas sector in the country.

innovation



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IndianOil R&D The Crucible of Innovation

IndianOil's sprawling R&D Centre near the National Capital, is one of Asia's finest. It holds over 1636 active patents and has won recognition for over four decades of pioneering work in lubricants formulation, refinery processes, pipeline transportation and alternative fuels.

Its Petrochemicals & Polymers vertical conducts research in polyolefin catalyst, drag reducing agents, new grade development & post reactor modification, additives, troubleshooting & developing packaging materials, mainly polymeric, as well as benchmarking besides rendering technical support in customer trials to enhance product quality & reduce production costs.

An emerging Centre of Excellence in Ziegler-Natta Catalysis in polymer research, IndianOil R&D has helped standardize polymer grades and produced new products/grades based on market requirements. It leverages the core technologies of general chemistry such as material design, synthesis and analysis technologies for developments that meet the latest needs as well as those of the future.



Product Application Development Centres at @Panipat and Paradip



The state-of-the-art Product Application Development Centres (PADCs) promote commercial application and customer-oriented development of niche grades and new applications, quality monitoring, technical support and customer relationship management. As an interface between the Company's polymer plants, its marketing set-up and end-use customers, PADCs develops new applications, formulations and grades that are in sync with market needs. PADCs at Panipat & Paradip are recognized by the Department of Scientific and Industrial Research (DSIR), Ministry of Science & Technology, Govt. of India.



Industrial Materials

Petrochemicals

IndianOil produces olefins such as ethylene and propylene, and aromatics such as paraxylene, benzene and toluene. Our polyolefins (polyethylene and polypropylene) offer high quality performance products suitable for various industries such as automobiles, electrical wires, medical devices and food packaging.



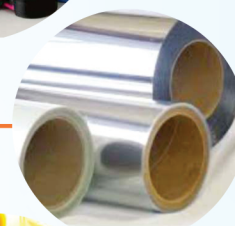
Carbon

IndianOil produces Petcoke, Carbon Black Feedstock (CBFS) and Synthetic Rubber to support industries engaged in production of tyres, printing inks, plastic colourants, etc.



Optical Films

IndianOil also produces PTA and MEG which are used in production of optical films such as bi-axial oriented polyester film featuring well-balanced characteristics to improve the visibility of touch panels.



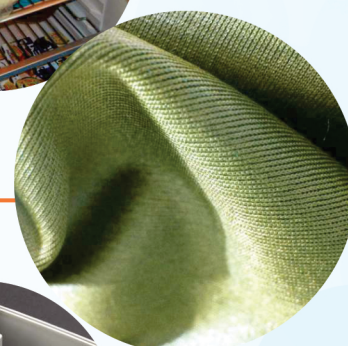
Food Packaging, Industrial & Medical Films

IndianOil has the capability to tweak characteristics and produce **PROPEL** grades with added functionalities for speciality food & medical packaging, electronic parts, automobiles and building materials.



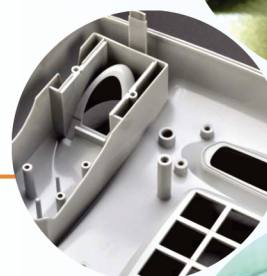
Fibres & Textiles

With a world-class PX/PTA plant producing polyester intermediates, **PROPEL** grades can be used for a wide range of applications including activewear, interiors and industrial applications.



PP Composites and Functional mouldings

Our grades can be used to produce a variety of products such as aluminium composite materials, plastic film- laminated steel sheets, building materials, partitions, sports good, industrial use plates, etc.



Agribusiness & Infrastructure solutions

PROPEL grades are suitable for use in producing agricultural materials such as drip laterals for irrigation pipes for submersible pumps, agri-nets for plant growing systems, etc. Contributing to a sustainable society, IndianOil petrochemicals can be used to produce piping materials, logistics materials & adhesive tapes, cable ducting, repair & reinforcement materials for roads & ridges, artificial turfs for boosting sports infrastructure, etc.



Major Production Bases



IndianOil's efforts in manufacturing innovation stem from its world scale plants, world-class technologies, focus on safety, environmental conservation, high-quality products and high-efficiency production.

IndianOil is one of the largest players in the domestic petrochemicals market, besides exports to 75 countries. The Corporation offers a full slate of petrochemical products and intermediates under the brand name **PROPEL**.

Plants/Products

Linear Alkyl Benzene (LAB) plant @Koyali, Gujarat

- ✓ Among the world's largest single-train LAB Plants, Capacity: 162 TMTA per annum. IndianOil is now the largest LAB producer in India.
- ✓ **PROPEL** LAB is fully compliant with the BIS standard ISI-12795:2020 and has a proven record of best conversion to detergent intermediate Linear Alkyl Benzene Sulphonic Acid (LABSA)
- ✓ **PROPEL** LAB is actively used in most of the high selling detergent brands across the country
- ✓ Based on UOP's state-of-the-art DETAL technology.

Paraxylene/ Purified Terephthalic Acid (PX/PTA) Plant @Panipat, Haryana

- ✓ PTA plant capacity: 700 TMTA
- ✓ Produces polyester intermediates
- ✓ Based on Invista technology
- ✓ PX plant based on UOP technology, capacity: 460 TMTA

Polypropylene Unit @Panipat, Haryana

- ✓ Two lines with capacity of 300 TMTA each
- ✓ Based on Spheripol-II Technology of LyondellBasell
- ✓ Produces Homo-polymers, Block Co-polymers, Random and impact Co-polymers
- ✓ Can produce grades with MFI in the range of 0.3 to 100 g/10 min.

Dedicated High Density Polyethylene unit@Panipat, Haryana

- ✓ Plant capacity of 300 TMTA
- ✓ Based on slurry process technology (Hostalen) from LyondellBasell
- ✓ Can produce unimodal as well as bi-modal high molecular weight grades
- ✓ MFI ranges from 0.1(15) to 52(12) and density ranges from 0.940 to 0.965



LLDPE/ HDPE Swing unit @Panipat, Haryana

- ✓ Capacity of 350 TMTA.
- ✓ Based on solution process technology (Sclairtech) from Nova Chemicals.
- ✓ Plant can produce both LLDPE and HDPE grades.
- ✓ MFI ranges from 0.3 to 55 and density ranges from 0.917 to 0.965.

The Naphtha Cracker complex @Panipat also produces by-products such as Benzene, Carbon Black Feed Stock (CBFS), Polyethylene Wax (PE wax), Diethylene Glycol (DEG) and Triethylene Glycol (TEG).

1,3 Butadiene Plant @Panipat, Haryana

- ✓ Capacity: 138 TMTA.
- ✓ Based on BASF Technology.

Styrene Butadiene Rubber (SBR) Plant @Panipat, Haryana

- ✓ First in India.
- ✓ Capacity: 120 TMTA.
- ✓ An IndianOil joint venture with Trimurti Holding Corp. (THC), BVI (A 100% subsidiary of TSRC Corp. Taiwan).

Ethylene Glycol Plant @Panipat, Haryana

- ✓ Total capacity of 455 TMTA.
- ✓ MEG: 423 TMTA, DEG: 31 TMTA & TEG: 1 TMTA.
- ✓ Based on technology from Scientific Design, USA.

Ethylene Glycol Plant @Paradip, Odisha

- ✓ Total capacity of 357 TMTA.
- ✓ MEG: 332 TMTA, DEG: 24 TMTA & TEG: 1 TMTA.
- ✓ Based on technology from Scientific Design USA.

Polypropylene Plant @Paradip, Odisha

- ✓ Two lines with capacity of 340 TMTA each.
- ✓ Based on spheripol-2 technology of Lyondell Basell and stranded propylene from INDMAX (high severity FCC) unit.
- ✓ Can produce grades with MFI in the range of 0.3 to 100 gm/10 minutes.

Butyl Acrylate Plant @Dumad, Gujarat

- ✓ Capacity: 150 TMTA.
- ✓ Based on technology from Mitsubishi Chemical Corporation, Japan.

For trade enquiries, please contact

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For more information,
please visit: www.iocl.com

We Strive For Excellence, We Are Honoured With Laurels

FICCI Awards in Petrochemicals Category

FICCI Award for **Best Green Process of the Year 2024** for CO₂Sorb technology.

FICCI Award for **Product Innovator of the Year 2024** for 2300 MX PP random copolymer grade.

FICCI Award for **Digitech Front Runner of the Year 2024** for adopting digital technologies.

FICCI Award for **Make in India Champion of the Year 2024** for XtraFlo Drag Reducing Agent.

'FICCI Award for **Sustainability - Driving Circular Economy 2023**' for IndianOil's Cycloplast & Unbottled Initiatives.

'FICCI Award for **Excellence in Plastics/Polymers 2023**' for IndianOil's Innovation in PP-filled Compounds for LPG Safety Caps.

'FICCI Award for **Sustainability - Excellence In Safety 2023**' for the LAB Plant at Gujarat.

'FICCI Award for **Sustainability - Best Green Product 2023**' for the 2G Ethanol Plant at Panipat, Haryana.

'FICCI Award for **Sustainability - Excellence In Safety 2023**' for Petrochemicals Production Plants at Paradip (Odisha) & Panipat (Haryana).

Global Footprint of *PROPEL*

● POLYMERS * DEG/TEG + LAB ● BENZENE

(Map not to scale)



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