

BITUMEN DERIVATIVES
PRODUCT CATALOGUE

For the Roads of Today and Tomorrow



IndianOil Total Pvt. Ltd.

(Joint venture of IndianOil and TotalEnergies Marketing Services)



About Us

Road construction sector in India is undergoing a paradigm shift with a renewed focus on sustainable infrastructure development. Modern and emerging technologies are instrumental in changing the face of Indian road construction. This will lead to the rise of demand for improved material for road construction.

IndianOil Total Private Limited has been formed in 2020 as a 50:50 Joint Venture Company between TotalEnergies, which is the one of the biggest producers and supplier of bitumen products in Europe and Indian Oil Corporation, the country's leading refiner and retailer of petroleum products.

The venture produces and markets high quality bitumen derivatives for India's booming road construction industry and is headquartered in Mumbai. The commercial operation of the company has commenced in March 2021.

ITPL combines the Marketing and R&D strengths of both IndianOil and TotalEnergies to manufacture and market innovative bitumen formulations and superior quality products.

With our culture of innovation, safety, and sustainability, ITPL is poised to contribute significantly to the pavement sector in India.



Our Promoters



IndianOil

Indian Oil Corporation

Indian Oil Corporation (IOCL) is India's highest-ranked energy PSU in fortune global 500 listing. IOCL is an integrated energy major with a presence in almost all the streams of oil, gas, petrochemicals, and alternative energy sources.

IOCL is the largest producer and market leader in viscosity grade Bitumens in India with a state-of-the-art R&D center based in Faridabad.



TotalEnergies

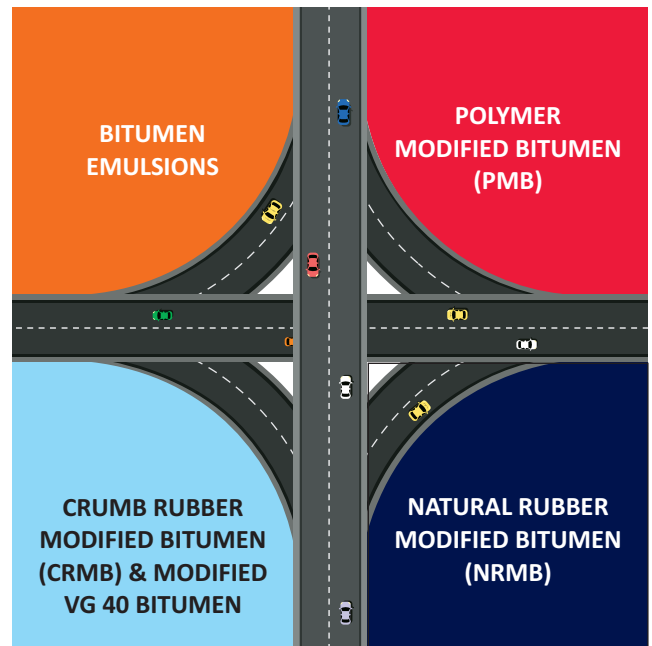
TotalEnergies

TotalEnergies is a broad energy company that produces and markets energies on a global scale, oils and biofuels, natural gas and green gases, renewables, and electricity.

Active in more than 130 countries, TotalEnergies puts sustainable development in all its dimensions at the heart of its projects and operations to contribute to the well-being of people.

A Comprehensive Range of Bitumen Derivatives

ITPL offers a comprehensive range of bitumen derivative products for all the requirements of road construction. Our products are manufactured in strict accordance with the highest quality and safety standards in adherence to our HSEQ policy.



Bitumen Product Range

EMULSION – RAPID SETTING

DURAPAVE EMULSIS RS1

EMULSION – MEDIUM SETTING

DURAPAVE EMULSIS MS

EMULSION – SLOW SETTING

DURAPAVE EMULSIS SS1
DURAPAVE EMULSIS CSS-1h (ASTM)
DURAPAVE EMULSIS SS2

COLD MIX EMULSION

DURAPAVE EMULSIS CM
DURAPAVE EMULSIS CM MS
DURAPAVE EMULSIS CM MS2
DURAPAVE EMULSIS CM SS2

POLYMER MODIFIED EMULSION

DURAPAVE EMULSIS RS PoMo
DURAPAVE EMULSIS SS PoMo

MODIFIED VG 40 BITUMEN

VG 40 M

MICRO SURFACING EMULSION

DURAPAVE EMULSIS MiSu

POLYMER MODIFIED BITUMEN (PMB)

Styrelf® PMB 40
Styrelf® PMB 70
Styrelf® PMB 40 Super
Styrelf® PMB 40 Hyma
Styrelf® PMB 64-10 S/H/V/E
Styrelf® PMB 70-10 S/H/V/E
Styrelf® PMB 76-10 S/H/V/E
Styrelf® PMB 82-10 S/H/V/E
Styrelf® PMB 76-22 S/H/V/E

A technology of Total

CRUMB RUBBER MODIFIED BITUMEN (CRMB)

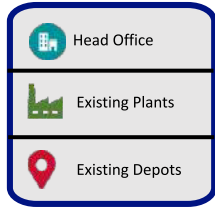
CRFlex® 55 / CRFlex® 60

NATURAL RUBBER MODIFIED BITUMEN (NRMB)

NRFlex 40 / NRFlex 70



Manufacturing Facilities & Depots



To ensure an efficient and reliable supply of products to the customers, ITPL has set up manufacturing facilities & depots at strategic locations. At present, ITPL has full-fledged state-of-the-art manufacturing plants at Jodhpur in the state of Rajasthan, Haldia & Howrah in the state of West Bengal, Mathura in the state of Uttar Pradesh, Vadodara in the state of Gujrat and Chennai in the state of Tamil Nadu.



Research and Development

ITPL offers a detailed technical evaluation of a complete range of products to the customers. ITPL's state-of-the-art labs are equipped with the latest equipment for analysis of Performance Grade Binders (PMB/CRMB) with DSR (Dynamic Shear Rheometer) and short term and long-term aging process through RTFO (Rolling Thin Film Oven) / PAV (Pressure Aging Vessel).



Technical Assistance

The Technical Assistance to customers is a result of in depth experience and expertise of IndianOil and TotalEnergies which includes:

- Training on storage, handling, and applications of the products.
- Technical Assistance to define the best conditions to obtain the required performance of the products.
- Laboratory support for optimal mix design.
- Technical support on Hot Mix and Cold Mix processes from production to applications.







IndianOil Total Pvt. Ltd.

(Joint venture of IndianOil and TotalEnergies Marketing Services)

3rd floor, Gala Impecca, Vijay Nagar Colony,
J. B. Nagar, Andheri Kurla Road, Andheri (E),
Mumbai, Maharashtra, 400 059 India.

Email: contact@itpl.net Tel: +91 22 6907 7400.



MODIFIED VG-40 BITUMEN

APPLICATIONS:

VG-40M is a modified VG Grade bitumen, conforming to IS: 73-2013, specially designed & developed to provide high performance over a wide range of different highway applications. The product can be used in DBM / BC layers. It is designed with greater absolute viscosity at 60°C under IS 1206 (Part-2) to overcome issues of rutting observed at higher temperatures.

PRODUCT SPECIFICATIONS: The product is manufactured as per IS: 73:2013.

AVAILABLE GRADES:

- VG-40M

BENEFITS:

- VG 40 M would have high resistance to deformation at elevated pavement temperatures.
- Lower susceptibility to daily & seasonal temperature variations.
- Enhancing the overall durability of Pavement by withstanding the severe overloading traffic conditions.

REQUIREMENTS OF MODIFIED VG-40 BITUMEN

Characteristics	Test Method	Unit of Measurement	Specification (IS: 73:2013)		Test Results
			Min	Max	
Penetration at 25°C, 0.1mm,100gm,5Sec.z	IS 1203-1978	-	35	-	39.5
Softening Point, (R & B)	IS 1205-1978	°C	50	-	52.8
Kinematic Viscosity at 135°C	IS 1206(Part-3)		400	-	578
Flash Point, COC	IS 1209-1978	°C	220	-	318
Absolute Viscosity at 60°C	IS 1206(Part-2)	Poise	3800	4800	4120
Solubility in trichloroethylene	IS 1216-1978	%	99	-	99.3
RTFO Test					
a) Viscosity Ratio @60°C	IS 1206(Part-2)	-	-	4	2.21
b) Ductility @ 25°C	IS 1208-1978	Cm	25	-	67

PACKING: VG-40M IS AVAILABLE IN BULK.

FOR TECHNICAL QUERIES, PLEASE CONTACT:

Dr. Pankaj Kumar Jain, Vice President - Marketing and Technical
Mob: +91 8451804665 / Email: drpankajkumar.jain@itpl.net

Anil Thondepu, Manager - Product Marketing (Techno - Commercial)
Mob: +91 8976773284 / Email: anil.thondepu@itpl.net

