



GOEL PETRO ENERGY LIMITED

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Firstly know About Us

Goel Petro Energy Limited is an importer of bitumen in India. Imports the finest bitumen in India to ensure efficient roads are made helping great to logistics and playing role in building better India. Founder and promoter of the Company have over decade of experience in all aspects of this business and as well as strengthens their expertise in International capital in business operations , Financial Markets , Banking , Insurance ,Taxation and Finance which is further strengthened to general public via **GOYAL FINANCIAL SERVICES**.

Providing material to both public and private sectors Goel Petro Energy have helped contractors accomplish many tenders . During the years of experience we are able to form a portfolio of suppliers providing all grades and good quality of bitumen timely and after all quality checks even including SGS reports.

Last year we had imported **2 lakh MT** and added new line of Bitumen transportation from various Indian refinery including HPCL , IOCL & BPCL via Goel Transportation and Logistics Pvt Ltd. Our expertise and decade over experience helps us suggest the right grade and viscosity required to build up various road at various places. Currently our customer base extends to 240 including other importers as well. The goodwill so generated by the promoters helps it to enjoy the privilege of other importers providing their stock as well to sell.

We have a team of 92 people having expertise in their own field that helps us provide timely and satisfactory supply to our esteemed customers. Informed by current technologies , budget schedule and client priorities we strive for perfection in service and product. In this regime of daily updation in government policies related to direct and indirect taxation our customers are rest assured of the input claims they are to receive from us as our returns are filled by high class professionals well in time considering all legal aspects and the same team is one phone call away to seek the statements and other documents that shows how transparent we are in dealing.

Excellence and innovation describe our reputation , which we expect will become synonymous with the name Goel Petro Energy Limited.



What We Do.

We deal with different traders and supply the top quality of bitumen of different grades at the competitive price in India.



OUR PRODUCTS



- Bitumen, also known as asphalt in the United States.
- Bitumen, a substance known for its waterproofing and adhesive properties, can occur naturally or be formed through the distillation of crude oil.
- It is composed of complex hydrocarbons and contains elements such as calcium, iron, sulfur, and hydrogen.
- Bitumen prices are determined by the state of the global economy and supply and demand for crude oil.
- Bituminous materials are used for the construction of roads, preserving timber and for waterproofing stone walls. Nowadays, they are extensively used for surfacing of road and airport pavements.



BITUMEN

A STICKY FONT FAMILY



Bitumen is a low-grade of crude oil which is composed of complex, heavy hydrocarbons. In an oil reservoir, bitumen is a thick, viscous fluid and must be extracted from the ground. When extracting it, a lot of heat and effort must be used to upgrade it to a better product. Although bitumen is hard to extract from the ground, it can bubble naturally to the surface of the Earth in petroleum seeps. These seeps are places where fossil fuels and petroleum products leak out of the Earth instead of being trapped deep below the ground. In these seeps, bitumen, asphalt, and tar bubble up into pools. Additionally, bitumen is the main fossil fuel component of oil sands. When bitumen combines with asphaltines a solid is formed that is useful for paving roads.

In addition to being found naturally in seeps and the oil sands, bitumen can be produced by removing lighter fractions from crude oil during the refining process. Fractions that are removed are liquid petroleum gas, gasoline, and diesel. Once crude oil has been extracted from the ground, the production of bitumen can begin. The crude oil is pumped from the storage tanks and through a system that increases the temperature of the crude oil to 200°C. The oil then moves to a furnace, where it is heated even higher to approximately 300°C where it is vaporized partially into a distillation column. Here, the separation of the different components of the crude oil occurs. As lighter components rise to the top, heavy components—including the bitumen— fall to the bottom of the column. This process is known as fractional distillation. Finally, the bitumen is obtained by further distilling the residue in a vacuum distillation column. This type of bitumen is known as straight run bitumen. The grade of the bitumen depends on how much volatile material remains in the distilled bitumen—with more volatiles resulting in a less pure, more liquid product

Uses



Most refined bitumen is used in the construction industry. Mainly, it serves its use in paving and roofing applications. 85% of all bitumen is used as a binder in asphalt for roads, runways, parking lots, and foot paths. Gravel and crushed rock are mixed with thick bitumen, holding it together and it is then applied to roadways. 10% of the bitumen used worldwide is used in the roofing industry as its waterproofing qualities help make roofs function well. 5% of bitumen is used for sealing and insulating purposes in various building materials such as carpet tile backing and paint. In addition to these main uses, bitumen also has many minor uses. Other examples are soundproofing, explosives, mildew protection, a binder in briquettes, a backing to mirrors, shoe soles, fence post coating and soil stabilization



CRUDE OIL DISTILLATION PROCESS

Crude Oil Distillation Process



Properties of Bitumen

- It is dark black or brown in color.
- Usually solid at normal temperatures and becomes liquid on heating.
- Consists of components like carbon (87%), oxygen (2%) and hydrogen (11%).
- It becomes soft at 30°C to 100°C. • Good resistance to acid and not soluble in water.
- It is susceptible to oxidation, forming blisters and cracks.



Types of Bitumen

Bitumen is available in the following forms:

Types

- Plastic Bitumen
- Bitumen Emulsion
- Straight Run Bitumen
- Blown Bitumen
- Residual Bitumen
- Cutback Bitumen
- Penetration Grade



• Plastic Bitumen

It is used for filling cracks in masonry and stopping leakages, etc., as it is thinner and a suitable filler in plastic form.



• Bitumen Emulsion

It is a mixture of bitumen, water and an emulsifying agent, which is in liquid form formed in aqueous medium and stabilizing agents. There are three varieties of bitumen emulsion, namely, slow setting (SS), medium setting (MS) and rapid setting (RS) depending upon the stability provided by the emulsifying agent.



It can be easily applied at ambient temperature, merely mixing it with aggregates for road works starts the binding process. The colour change from brown to black indicates the binding and can be used for road repairs and soil stabilization.

• Straight Run Bitumen



It refers to bitumen distilled to a definite viscosity, to use without further treatment like heating. It is achieved by controlling the temperature and the rate of flow during processing.

• Blown

It is produced by heating until it becomes a liquid and then passing air under pressure by which all the volatile compounds in it can be forced out. It is in solid form and has a high softening point so that if exposed directly to the sunlight for a long time, it does not melt.



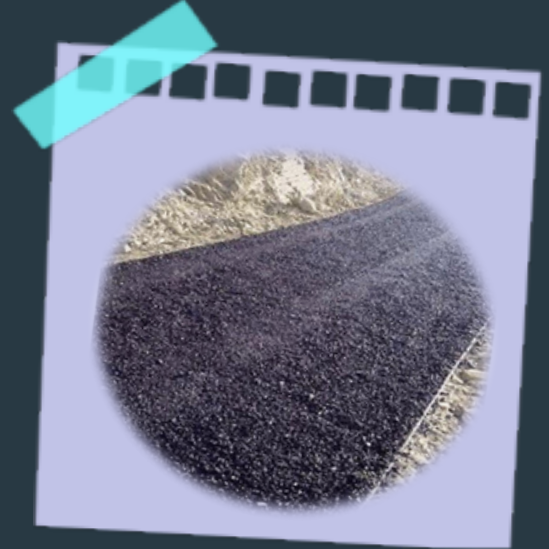
• Residual Bitumen

It is obtained as a residue during distillation of high- resin petroleum which is a solid substance at normal temperature.



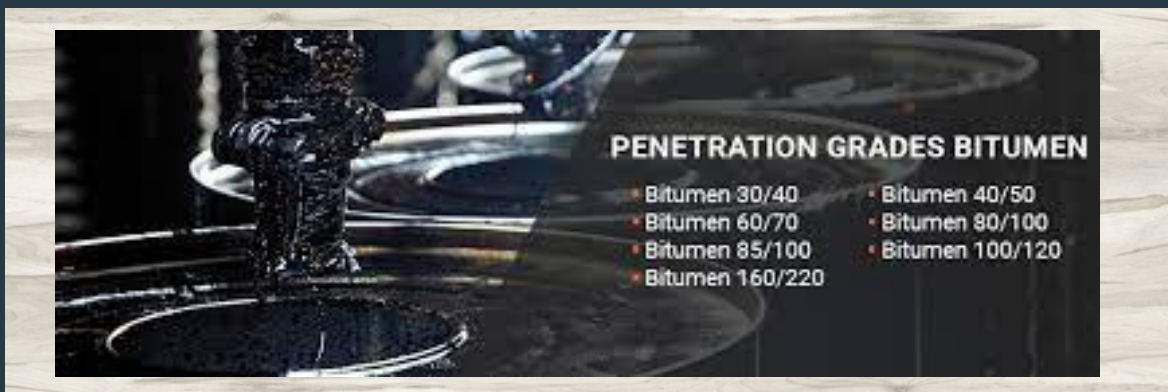
- Cutback Bitumen

In this type of bitumen, viscosity has been reduced by adding other petroleum distillates like gasoline, kerosene and high-boiling point light oil. They are available in three groups, namely rapid curing (RC) cutbacks - contains gasoline, Medium curing (MC) cutback - contains kerosene, Slow curing (SC) cutback - contains light oil. They are mainly used for soil stabilization, and for road construction works.



- Penetration Grade

It is the basic form of bitumen that is semi-solid at ambient temperature and requires to be heated to make it fluid before applications such as for waterproofing roof surfaces.



Penetration Grade of Bitumen

We supply different grades of bitumen in different states of India and that is packed in new steel drums with best quality and cost. The following grades are:



- 1) VG 30
- 2) VG 40
- 3) 60/70 (private refinery)
- 4) 60/70 (Jey oil)
- 5) 80/100

Bitumen 60/70

We Call it Black Gold



Bitumen 60/70, which is also called the paving grade bitumen, works well in almost every application. Since this grade of bitumen is suitable for road construction in a widerange of temperatures (from -22 to +76). Bitumen 60/70 is a moderate type of penetration grade bitumen. In bitumen 60/70 the numbers 60 and 70 mean that the penetration value of bitumen is between 60 and 70 mm.

Bitumen 80/100

We Call it Black Gold



Bitumen Penetration Grade 80/100 is a standard penetration grade Bitumen usually used as a Paving Grade Bitumen suitable for road construction and for the production of asphalt pavements with superior properties. This grade of Bitumen is mainly used in the manufacture of hot mix asphalt for bases and wearing courses.

Bitumen VG 30

VG-30 bitumen is a popular grade of bitumen in India. Indian importers prefer this type of bitumen because its performance in Indian road construction is proved. VG-30 grade bitumen is also used for plastic roads in India. Because of having good thermal susceptibility, we use VG-30 in areas that have a higher temperature. VG-30 bitumen is also suitable for use in hot and rainy weather conditions instead of bitumen penetration grades. The more viscous the bitumen, the fewer the chances of being affected by water.



■ Product Specification

Absolute viscosity : 60°C
Kinematic viscosity : 135°C
Flash point max : 350
Flash point min : 220
Penetration : 25°C
Density : 27°C
Viscosity city : 60°C max

Bitumen VG 40

VG-40 is used in highly stressed areas such as intersections, near toll booths and truck parking lots in lieu of old 30/40 Penetration grade. Due to its higher viscosity, stiffer Bitumen mixes can be produced to improve resistance to shoving and other problems associated with higher temperature and heavy traffic loads.



▪ Product Specification

Viscosity Grade : VG -40

Aromatics : Hydrocarbon

Max : 84%

Washer : 0.35 %

Flash Point : 122 Deg C

Kinematic Viscosity (mm²/s) : Max

52 Density (kg/m³) : Max 93

General Uses and Application of Bituminous Materials

A graded stone mixture is coated with bitumen called bitumen macadam, extensively used for pavements, walkways, etc. There are many uses of bituminous materials in civil engineering works like:



For paints : The industrial blown or R grade of bitumen is mainly used for bituminous paints and other surfaces.

Damp proofing: For damp proofing, prefabricated mats that are sprayed with blown bitumen are used. They are also used to prevent pollution from spreading in the form of small water-retaining, bituminous walls at refuse disposal sites.

Roofing: Coverings of Roofs (Shingles) and Roofing felts are made of fibres or plastics. These are impregnated with penetration-grade bitumen and coated with blown-grade bitumen.

Tanking of basements: Bitumen is the usual choice for waterproofing of Basements like Asphalt.

Preservation of stones: These materials are used for preservation of stonework from attack by salts and other substances present in the ground and atmosphere.

Pavements: Largely used for the construction of roads, runways, taxiways, etc.

Protection of structures: It is used as a protective coating by impregnation for concrete elements such as slabs, piles, etc. Organic binders of 10-15 mm thickness are also applied over these coatings, to prevent the bitumen from corroding off.



QUALITY MANAGEMENT CERTIFICATE

Masters of Consistency and Quality.



Certificate

This is to certify that

GOEL PETRO ENERGY PRIVATE LIMITED

200B, DIGIANA, NATIONAL HIGHWAY, JAMMU AND KASHMIR - 180004,
INDIA

Has been found in compliance with requirement of

Quality Management System

ISO 9001:2015

For The Following Scope:

"IMPORT OF BITUMEN."

Certificate No	:	QMS/092020/10244
Original Certificate Date	:	24th -November-2021
Issue Date	:	24th -November-2021
Expiry Date	:	23rd -November-2024

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Anand Kumar

Authorised Signatory

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CERTIFICATE OF ENVIRONMENT MANAGEMENT



Certificate of Registration

This is to certify that the

GOEL PETRO ENERGY PRIVATE LIMITED

200B, DIGIANA, NATIONAL HIGHWAY, JAMMU AND KASHMIR - 180004, INDIA

has been independently assessed by QVA and is compliant with the requirement of the standard

ISO 14001:2015

Environment Management System

For the following scope of activities

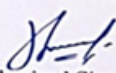
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Date of Certification	01 ST January 2022
Issuance Date	01 ST January 2022
1st Surveillance Due	31 ST December 2023
2nd Surveillance Due	31 ST December 2024
Re-Certificate Due	31 ST December 2025




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QVA Certification

CAB Address : Maryland Avenue, SW Washington, D.C. 20202

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QUALITY MANAGEMENT CERTIFICATE



Certificate

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Amal Kumar
Authorized Signatory



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