



PETRO INDIA CORPORATION

Paving the path to the future



[www.petroindiacorporation.com](http://www.petroindiacorporation.com)



Petro India Corporation has been started with a vision to serve the road construction Industry by providing the quality products by using the proper Technology & Innovation. We always strive to provide cost effective and the finest solutions in the market to our customers. We uphold the above values and strive for perfection at all times. **Petro India Corporation** is duly accredited by **ISO 9001:2015**. We firmly believe in quality. Highly qualified professionals and quality experts associated with us are the most integral part of our company who enable us to keep up the pace with the latest market requirements and together we are committed to make **Petro India Corporation** a successful organization both commercially and technically.

**Petro India Corporation** is a renowned name in the eastern and north-eastern parts of the India. Currently, we are having our presence in West Bengal, Odisha, Sikkim, Assam and the entire eastern and north-eastern parts of the India.

## VISION

*Our vision is to be the No.1 supplier in India by providing the quality products at cost effective prices to our customers.*



# Products Profile:

We offer the following range of the products:



## Bitumen VG-30 & VG-40

We offer viscosity grade Bitumen VG-30 & VG-40 in packed and bulk. We have collaborations with the best suppliers and exporters overseas. In order to deliver quality products to our clients we conduct rigorous quality control procedures along with strict quality measures. We have Captive fleet of tankers for the transportation of Bulk Bitumen.

## Bitumen Emulsions

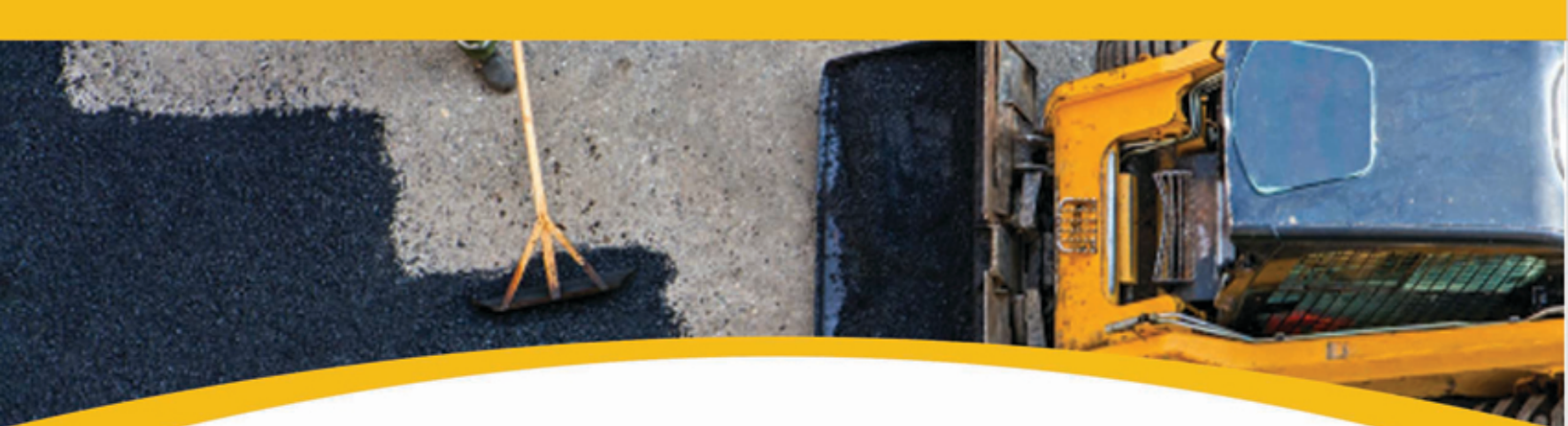
Our product profile in Bitumen emulsions includes Rapid Setting(RS-1), Medium Setting(MS) and Slow Setting (SS-1).

Bitumen emulsion consists of three basic ingredients: bitumen, water and an emulsifying agent. Based on specifications it may contain other additives, such as stabilizers, coating improvers, anti-strips, or break control agents. It is well known that water and asphalt will not mix, except under carefully controlled conditions using highly specialized equipment and chemical additives.

## Properties of Bitumen Emulsions

*As per IS 8887:2017*

SL	Testing Parameters	Requirements			Test Method
		RS-1	MS	CSS-1	
1	Residue on 600 micron, % by mass	Max 0.5	0.5	Max 0.5	IS:8887:2004(B)
2	Viscosity saybolt Furol Viscometer at 50°C	20-100	50-300	50-300	IS:3117
3	Coagulation of Emulsion at Low Temperature	Nil	Nil	Nil	IS:8887:2004(C)
4	Storage Stability after 24 Hrs, % by mass	Max 2	Max 1	Max 1	IS:8887:2004(D)
5	Particle Charge	+Ve	+Ve	+Ve	IS:8887:2004(E)
6	Miscibility with water	No Coagulation	No Coagulation	No Coagulation	IS:8887:2004(H)
<b>Test on residue</b>					
7	a) Residue by evaporation, %	Min 60	Min 65	Min 65	IS:8887:2004(J)
	b) Penetration at 25°C/100g/5sec, 1/10mm	80-150	60-150	60-150	IS 1203
	c) Ductility at 27°C/cm	Min 50	Min 50	Min 50	IS 1208
	d) Solubility in trichloroethylene, % by mass	Min 98	Min 98	Min 98	IS 1216



## Uses of Bitumen Emulsions

Cationic emulsions are used at ambient temperatures with aggregates, which need not to be completely dry. Emulsions are less hazardous to use and can be applied in a wider range of conditions.

### Applications:

**Prime Coat**– It is typically have been spray applications of low viscosity asphalt on granular base in preparation for placing an asphalt mixture. A prime coat performs several important functions.

- Coats and bonds loose mineral particles on the surface of the base. Hardens or toughens the surface of the base.
- Waterproofs the surface of the base by plugging capillary or interconnected voids.
- Provides adhesion or bond between the base and the asphalt mixture.

**Tack Coat**– A tack coat is a very light spray application of diluted asphalt emulsion. It is used to create a bond between an asphalt overlay being placed and the existing surface. A tack coat is recommended for all overlays and it performs the several important functions.

- Tack coat helps in holding the patch and provides a watertight seal between the patch and surrounding pavement.
- Tack coat also is essential in a good patching operation.

**Seal Coat**– Seal Coat whether it is Liquid or Premix Seal Coat, is applied before 4-6 hours after the premix-carpeting. It seals and protects the base and provides strength at the road surface so that the base can resist the abrasive and disruptive forces of traffic. It performs the several important functions.

- It seals an existing bituminous surface against the intrusion of air and water
- It arrests the deterioration of a surface showing signs of distress
- Seal Coat enriches an existing dry or raveled surface



## Cold Mix

Cold Mix Technology is cost effective as well as environment-friendly due to the fact that building work can go on in all seasons and still with wet aggregates due to topographical constraints in rural roads and hilly areas. It can be well thought-out as a green technology for infrastructure Projects. Cold mix is gaining a great amount of popularity in road projects in the rural roads and hilly areas.

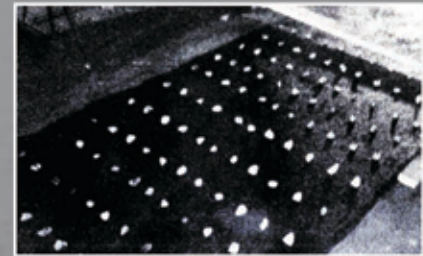
### *Benefits of Using Cold Mix:*

- It is flexible, however, stable against climatic changes.
- Suitable for temporary crack sealing that can even be used on the wet surface.
- Completely environment-friendly during producing and paving process and no heating is required.
- Cold Mix is the only choice for places far from hot mix asphalt plants.
- It is cost effective and labour intensive product.



## Blown Bitumen

Blown Bitumen is the oldest construction products, and the oldest waterproofing, roof sealing and road surfacing material, in use for centuries. Blown Bitumen is a bituminous design mix containing ingredients bitumen, coarse aggregate, fine aggregate and filler material. It is available in various grades such as 10/20, 20/30, 30/40, 85/25, 115/15 & 90/15. It is working as a waterproofing material and used as wearing course for a whole range of construction work of roads and bridges. It protects structural concrete and flexible pavement top from wear and tears due to environmental impact. Percentage of bitumen content consider for the design of mastic asphalt is preferably 14–17%. it is also used for roofing, tanking and flooring to avoid seepage of water..



## Ready Mix

We also offer ready mix for pot-hole and maintenance work. Our ready mix is available in 25 kgs and 50 kgs bags. It is a mixture of specially tailor-made emulsion mixed with small aggregates which are mostly used during rainy seasons for emergent maintenance and repair of small pot holes.



## Fuel Oils

We are one of the major importers of Fuel Oil & Furnace oil in the eastern part of India. We have collaboration with the international suppliers for the Fuel Oils. Our clientele includes some of the major names in the region. Our Fuel Oils are best suitable for the Batch Mix, Hot Mix and Spot Mix Plants.

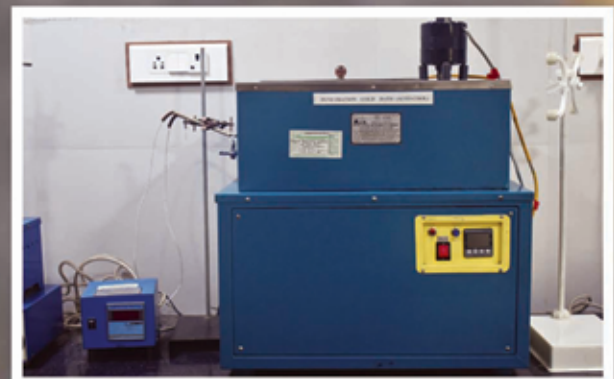
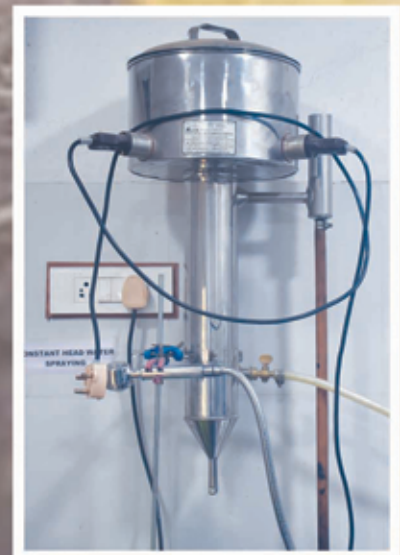


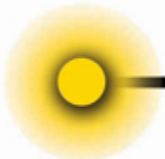


## Quality Assurance

We have set up a very well equipped and modern inhouse lab keeping our R&D work in mind. We have a team of well qualified professionals who strive very hard to assure the quality of our products. Each and every batch of the product is tested as per the relevant Quality Standards.

### Our In-house Lab Equipments





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