

Winter Grade Fuel in Ladakh

The winter-grade diesel was launched to address the problem of loss of fuel during extreme winter conditions.

- Motorists in high-altitude areas of Ladakh face the problem of freezing of diesel in their vehicles when winter temperatures drop to as low as minus 30-degree celsius.
- The **special winter-grade diesel** is developed by the **Indian Oil Corporation Limited (IOCL).**
 - It has a pour point of minus 33-degree celsius and does not lose its fluidity even in the region's extreme winter weather unlike normal grade diesel, which is difficult to use in sub-zero temperatures.
 - The pour point of a liquid is the temperature **below which the liquid loses its** flow characteristics.
 - It also meets <u>Bureau of Indian Standards (BIS)</u> specification of <u>BS-VI</u> grade.
- The special winter-grade diesel will help to reduce the hardships faced by the local people for transportation and mobility during the harsh winter months.
- It will further facilitate the local economy as well as tourism in the region.

BS-VI

- Bharat stage norms are emission control standards put in place by the government to keep a check on air pollution based on the European regulations (Euro norms).
- These standards set limits the release of air pollutants from equipment using internal combustion engines, including vehicles.
 - The higher the stage, the more stringent norms.
- BS VI's key improvement in fuel quality over BS IV include,
 - Lower Sulphur Content: It has lowered sulphur content of 10 parts per million (ppm). Sulphur in fuel contributes to fine particulate matter emissions.
 - Harmful Hydrocarbon: It seeks to reduce the level of certain harmful hydrocarbons in the emissions that are produced due to incomplete combustion of fuel.

Source: TH

PDF Refernece URL: https://www.drishtiias.com/printpdf/winter-grade-fuel-in-ladakh