

## **9. Indian Navy to Get Upgraded Fuel HFHSD – IN 512**

**Prelims Level: Defence Technology**

**Mains Level: GS-III Science and Technology Indigenization of Technology**

### **Why in News?**

- A new fuel (High Flash High-Speed Diesel) HFHSD – IN 512, with revised technical specifications, has been launched for pan Navy implementation.

### **Highlights:**

- One of the Key Result Area for the Indian Navy has been fuel quality standards revision to keep pace with the induction of new technology equipment and meet contemporary emission standards.
- With the advent of technology and refining techniques in the petroleum industry better quality of fuel abiding to more stringent specifications has become a necessity. Hence, continuous improvement in the technical specification for diesel is the primary focus area.
- Leveraging technology and improved refining techniques available with the country's petroleum industry, the Indian Navy in collaboration with M/s (Indian Oil Corporation) IOCL carried out an extensive and thorough study and a comparative evaluation of existing international regulations.
- As an outcome, a new fuel (High Flash High-Speed Diesel) HFHSD – IN 512, with revised technical specifications, has been launched.

### **Impact of HFHSD – IN 512:**

- The new fuel specification will ensure both, better quality fuel and also result in a reduced carbon footprint.
- India will be able to ensure interoperability amongst foreign navies during fleet exercises and provide fuel of quality better than that mandated to all foreign navies under bilateral/multi-national logistics support pacts including LEMOA (Logistics Exchange Memorandum of Agreement).
- The successful introduction of the new fuel is a landmark occasion highlighting the enormous potential which exists within the country to produce world-class products.
- This effort would also benefit other M/s IOCL consumers in the country like Indian Coast Guard and other merchant marines in the coming years.
- The achievement would also mark a new high with quality fuel available to all foreign Navy ships at Indian ports during exercises with the Indian Navy.

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- This revolutionary initiative would go a long way in enhancing equipment reliability, performance, reduced carbon footprint, emissions and more importantly, would be a key enabler in the Navy's 'Mission Based Deployment' on a Global Scale.

